general cavi s.p.a.

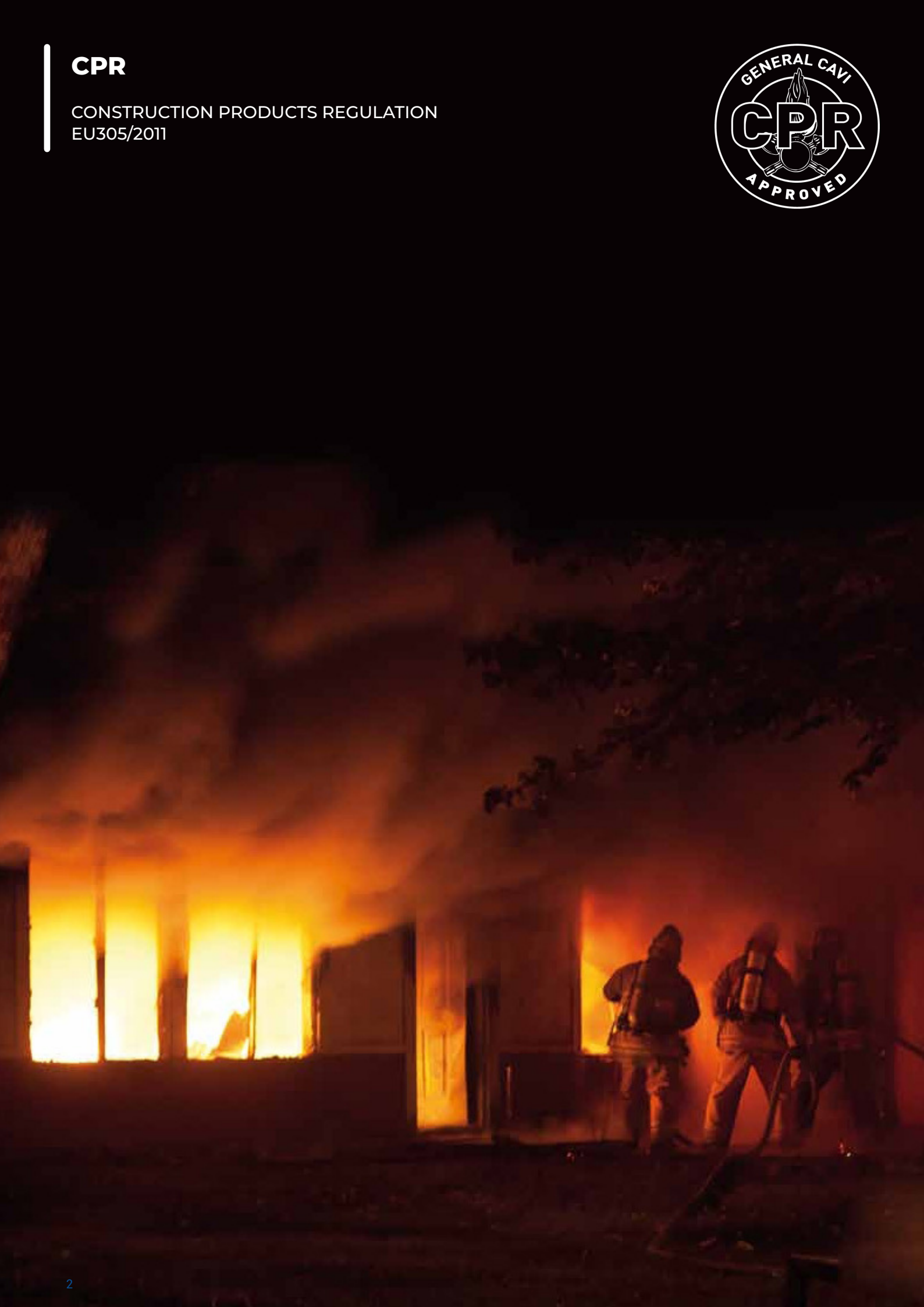
CABLE CATALOGUE

Construction Products Regulation CPR
EU305/2011 - No. 2

generalcavi.com

CPR

CONSTRUCTION PRODUCTS REGULATION
EU305/2011



General Cavi S.p.A. was founded in 1984 by a group of highly qualified and experienced technicians in the field of electric cable manufacturing. The acquired experience has been used to provide a high level of quality in the products offered on a national and international market, recognized by the numerous public and private clients with whom we have the pleasure of collaborating both in Italy and worldwide. The improvements to our products and services, the continuous acquisition of new know-how with research and development programs, allow us to offer a wide range of products capable of solving all the needs of the most diverse installations: from standard to the most particular ones, in full compliance with current regulations and those concerning safety and ecological protection. This natural propensity for improvement allowed us to obtain the certification of the Company Quality System in October 1992.

CPR REGULATION (UE 305/2011)

The purpose of this Regulation is to ensure the free movement of construction products within the European Union by adopting a harmonized technical language capable of defining their performance and essential characteristics.

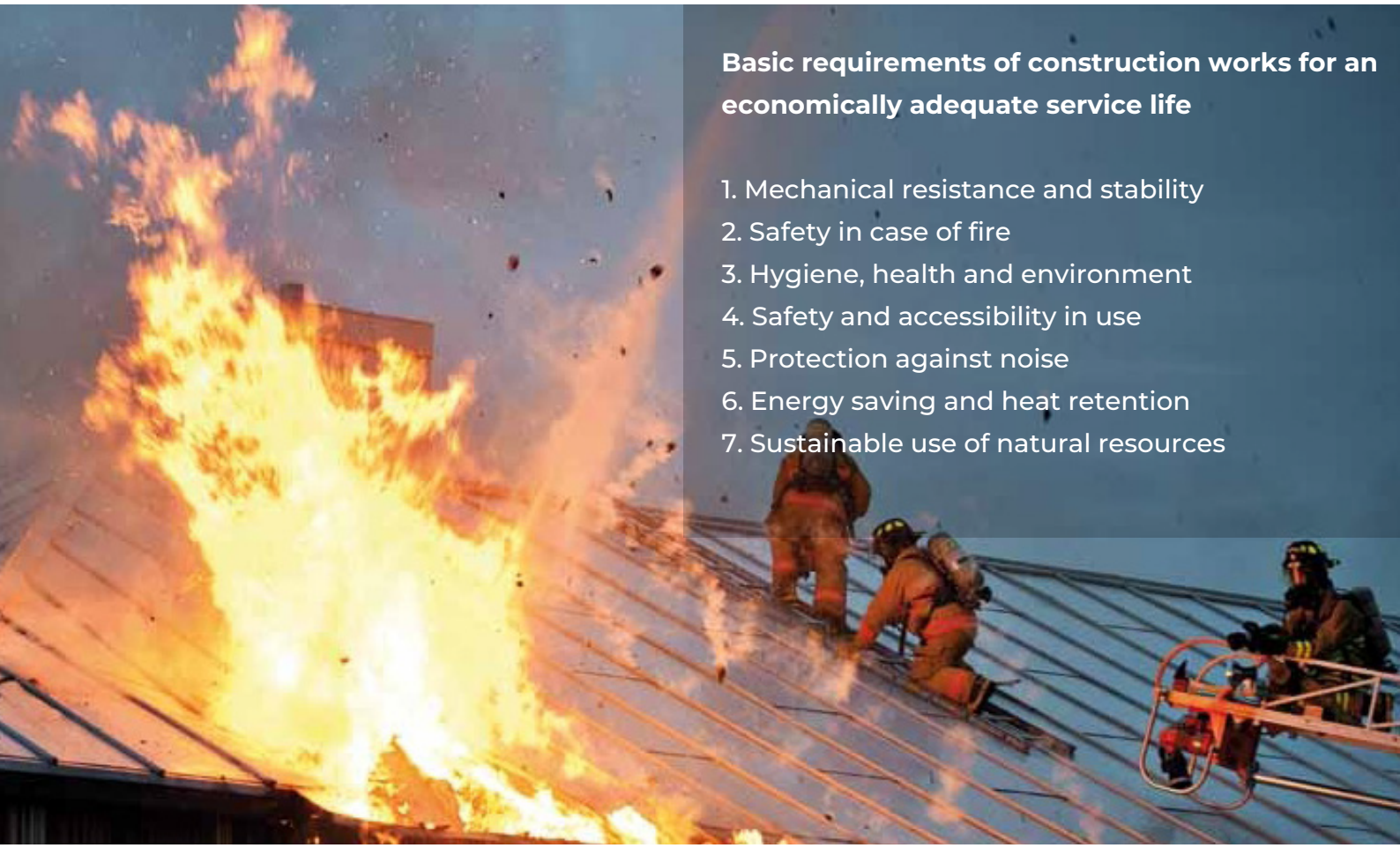
It is clear that it is important to fully understand the CPR Regulation in order to comply with the Standards during the design and construction of an electrical system, minimizing risks to people and property and reducing the fire hazard.

It is undeniable that when it comes to the safety of people and property, the electrical system plays a fundamental role. According to Istat, in the domestic sector alone, there are about 4 million accidents in Italy every year, of which 241,000 are due to electrical causes.

Electrical cables are rarely the cause of a fire, but when they are involved they can be a serious hazard due to their large number and their presence in all areas of a building. It is estimated that 1 in 5 fires is attributed to a malfunctioning appliance.

With careful prevention and by creating electrical systems according to the rules of the art with safe and quality components in accordance with the CPR Regulation, the spread of fire, the obscuring of smoke-filled environments and the spread of corrosive and toxic gases could be reduced or eliminated almost completely.

The Construction Products Regulation (CPR) is a directly applicable European law that immediately imposes duties and rights on EU citizens and/or Member States.



Basic requirements of construction works for an economically adequate service life

1. Mechanical resistance and stability
2. Safety in case of fire
3. Hygiene, health and environment
4. Safety and accessibility in use
5. Protection against noise
6. Energy saving and heat retention
7. Sustainable use of natural resources

The CPR Regulation establishes the basic requirements and harmonized essential characteristics that all products designed to be permanently installed in civil engineering works must guarantee for the scope of application. It is necessary that the incorporation occurs in a stable and lasting manner during the service life of the work itself.

From the original text of art. 2 paragraph 1 of the CPR it is clear that "construction product" means any product or kit manufactured and placed on the market to be permanently incorporated into construction works or parts of them and whose performance affects the performance of the construction works with respect to the basic requirements of the works themselves".

The European Commission, within the characteristics considered relevant for the purposes of construction safety, has decided to consider requirement no. for cables. 2 "Safety in the event of fire" and requirement no. 3 "Hygiene, health and environment". All cables permanently installed in buildings, whether for energy transport or data transmission, of any level
voltage and with metal or fiber optic conductors, must be classified according to the classes of the relevant installation environment.

TARGET

The objective of the CPR Regulation is to guarantee the free circulation of construction products in the European Union and safeguard the market from non-compliant products.

- Through a harmonized language capable of defining essential product performances and characteristics.
- Allowing you to consciously select the level of performance necessary to ensure the safety of people and property.
- Sharing responsibility among all actors in the supply chain.

The advantages that derive from adopting this Regulation are many, among the most important we include:

GREATER CLARITY AND TRACEABILITY OF PRODUCTS

The information indicated on construction products in relation to their performance is guaranteed by precise documentation that accompanies the product.

GREATER SAFETY AND RELIABILITY

The new products are based on new fire behavior tests capable of meeting increased safety and reliability standards compared to the past.

GREATER PRODUCT QUALITY

Fewer counterfeit and non-regulatory products to minimize the risks to people and goods by reducing the danger of fires.

The CPR Regulation involves all economic operators in the supply chain: manufacturers, agents, distributors, importers and other actors in the supply chain such as installers, designers, professional associations and authorities of the EU member states. Each of them shares responsibility for its implementation in terms of control and attention to compliance with the obligations within its competence. The CPR Regulation introduces the following obligations

for Economic Operators:
1. CE marking
2. Declaration of Performance (DoP)
3. Evaluation and verification system for constancy of performance (AVCP)

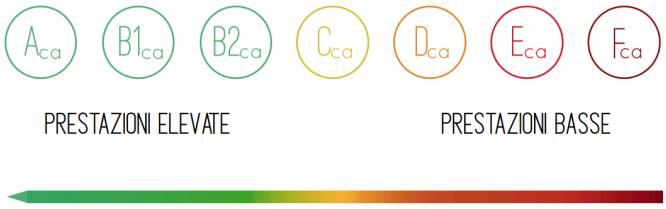
The CE marking is the mandatory declaration, issued by the manufacturer of a product regulated in the European Union, which demonstrates how the product complies with the safety requirements established by the applicable directives. It is not comparable to a quality mark and therefore does not ensure the safety of the product in the strict sense, but communicates its performance in order to be able to use it safely in a stable and guaranteed work. The main document, around which the entire CE marking process of construction products revolves according to the provisions of Reg. (EU) 305/2011, is the Declaration of Performance (DoP).
Upon issue by the Notified Body of the Certificate of Constancy of Performance (AVCP) - or the test report for lower classes - the manufacturer is able to draw up its own "Declaration of Performance" (DoP) and is in possession of the requirements to be able to place the CE marking on the construction product, assuming responsibility for compliance with what is declared.

The DoP must contain the information required by Annex III to the Regulation. When each construction product is placed on the market, the manufacturer draws up a Declaration of Performance (DoP - from the English Declaration of Performance) regardless of the level of performance declared.

This document must contain all the information required by Annex III of the CPR Regulation and therefore the identification of the manufacturer and the product, the intended use, the performance of the cable in relation to its essential characteristics (AVCP, declared and relative performances standards), the identification number of the Notified Body, the date, the stamp and the signature of the manufacturer.

Belonging to a certain class and the consistency of performance must be checked and certified by independent Notified Bodies (e.g. IMQ).
There are three AVCP systems of interest for cables and as can be seen from the table below we go from a level 1+ which involves more tasks for the Notified Body and much more severe controls, to a system 4 completely at the expense of the manufacturer and very less severe. In order to guarantee the greatest possible safety in high-risk buildings, the most severe AVCP systems are obviously related to the production of cables with the best performing fire reaction classes.

Electrical cables are rarely the cause of a fire but when they are involved they can constitute a serious element of danger due to their high quantity and their diffusion in all rooms of the building. For this reason, the European Commission, within the characteristics considered relevant for the purposes of construction safety, has decided to consider requirement no. 2 «safety in the event of fire» (Reaction and Resistance to fire) of fundamental importance for cables) recognizing the importance of their behavior and their role in the event of fire. The cables have been classified into 7 classes of Reaction to Fire A B1 B2 C D E F identified by the subscript "ca" (cable) according to their decreasing performance.



Each class provides minimum thresholds for heat release and flame propagation.
In addition to this main classification, the European Authorities have also regulated the use of the following additional parameters:
• s = smoke opacity. It varies from s1 to s3 with decreasing performance
• d = dripping of incandescent particles which can spread the fire. It varies from d0 to d2 with decreasing performance
• a = acidity which defines the danger of the fumes for people and the corrosivity for high performance low performance It varies from a1 to a3 with decreasing performance. All cables, as required by the harmonized standard EN 50575, must be marked with:
• an identification of origin consisting of the name of the manufacturer or its trademark or (if legally protected) the distinctive number;
• the product description or designation code;
• the fire reaction class

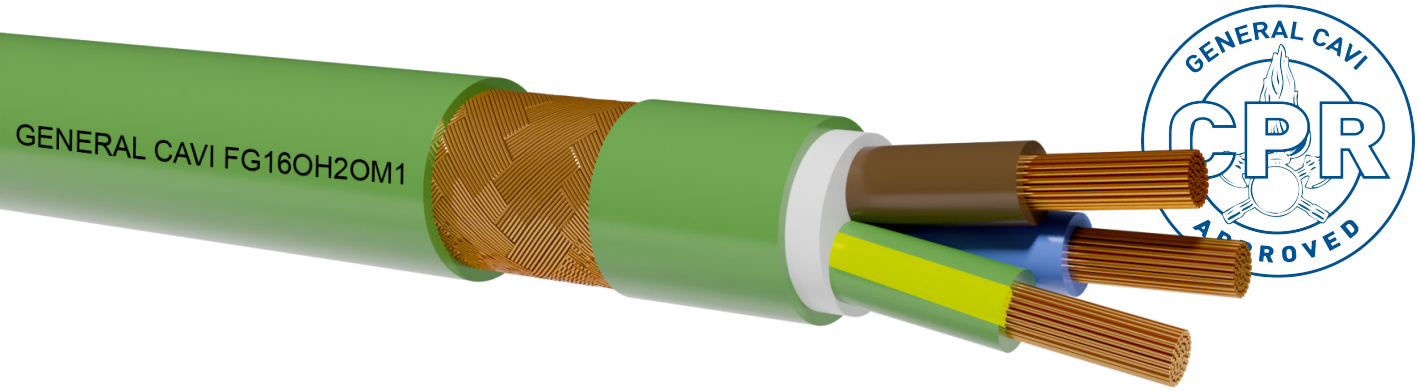
Furthermore, the cables can also be marked with the following elements:
• information required by other regulations relating to the product;
• production year;
• voluntary certification marks;
• additional information at the discretion of the manufacturer, provided that it does not conflict or confuse the other mandatory markings.

CPR: TECHNICAL FEATURES

The choice shared by Italian manufacturers is to mark the corresponding fire reaction class directly on the cable in order to facilitate the use of the cable itself as much as possible. The CE marking must be affixed compulsorily for all cables permanently incorporated into buildings and works of civil engineering (whatever the declared performance level). In the event that it is not physically possible due to lack of space to comply with the above directly on the product, the CE marking must be shown on the label (fixed on reels, hanks or other types of packaging) in a visible, legible and indelible manner. For low voltage energy cables and all communication cables, the CE marking guarantees compliance with the following European Laws/Regulations:
1. CPR Regulations (for fire performance)
2. LVD Directive (for electrical and mechanical characteristics).

Cables belonging to the most performing fire reaction classes (class C and higher) require a level 1+ performance constancy evaluation and verification system. This system requires a third-party Notified Body to carry out initial type tests, the initial inspection of the manufacturing plant and factory production control, as well as the subsequent continuous surveillance of the FPC* and the verification of samples taken at the factory. This system helps ensure that key fire safety parameters are carefully controlled and extended throughout production. For the less performing fire reaction classes (D and E), the cables require the level 3 system, which requires the Notified Body to carry out only initial tests. While continuous surveillance of the FPC is carried out by the manufacturer itself. For Class F, only the manufacturer's declaration is required. The Italian Electrotechnical Committee issued, on 1 September 2016, the CEI UNEL 35016 standard which establishes, on the basis of the CENELEC and CEI installation regulations, the four classes of reaction to fire for electric cables in relation to the Construction Products Regulation (EU 305/2011), which allow you to comply with the installation requirements in the current version of the CEI 64-8 Standard.

CEI UNEL standard applies to all electrical cables, whether for energy transport or data transmission with metallic or dielectric conductors, for permanent installations in buildings and civil engineering works with the aim of supporting designers and users in the choice of cable suitable for any type of installation.



CONVERSION TABLE OF NEW CPR UE305/11 CABLES

OLD NON-CPR CABLES

RISK LEVEL EUROCLASS CPR CEI-UNEL	PLACES OF EMPLOYMENT CEI 64-8	NEW CPR CABLES	Non-CPR cables **NO LONGER COMPLIANT** after entry into force Variant 4 CEI 64-8
HIGH B2ca - s1a, d1, a1		FG18OM18 - 0,6/1 kV FG18OM16 - 0,6/1 kV FTG18OM16 - 0,6/1 kV	FG10OM2 - 0,6/1 kV FG10OM1 - 0,6/1 kV FTG10OM1 - 0,6/1 kV
MEDIUM Cca - s1b, d1, a1		FG16OM16 - 0,6/1 kV FG17 - 450/750 V H07Z1-K type 2 - 450/750 V	FG7OM1 - 0,6/1 kV N07G9-K H07Z1-K type 2 - 450/750 V Not marked Eca(CE)
LOW (bundle installation) Cca - s3, d1, a3		FG16OR16 - 0,6/1 kV FS17 - 450/750 V FS18OR18 - 300/500V	FG7OR - 0,6/1 kV N07V-K FROR
LOW (single installation) Eca		H07RN-F H07V-K	HARMONIZED Not marked Eca(CE)

The Construction Products Regulation (CPR) has been in force for all EU countries since 1 July 2013 for all product families except cables. The applicability to electrical cables became operational with the publication of the EN Standard
50575 in the list of harmonized standards pursuant to the Regulation itself (Communication from the Commission published in the Official Journal of the European Union, 2016/C 209/03), which established the following timescales:

APPLICABILITY DATE

since 10 June 2016, the certification bodies have been able to notify (becoming Notified Bodies) and subsequently issued the Constancy of Performance certificates or carried out laboratory tests to allow the affixingof the CE marking and the issuing of the Declaration of Performance (DoP).

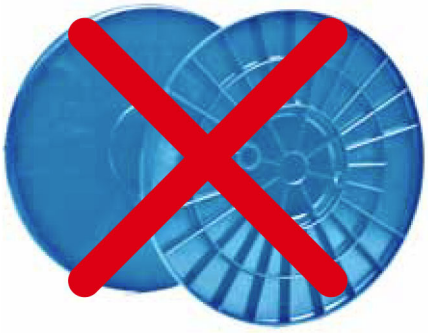
END DATE OF THE COEXISTENCE PERIOD

until 1 July 2017, there was a period of coexistence, during which producers and importers were able to indifferently place cables on the market whether they complied with the CPR Regulation or not.

After this period (1 year) which began on 10/6/2016, the CE marking and the Declaration of Performance have become mandatory for all construction cables placed on the market, even if there are no requirements yet regarding their use by of the Italian authorities.

general cavi s.p.a.

Siamo da sempre attenti all'impatto della nostra attività sull'ambiente. Per questo motivo abbiamo deciso di eliminare l'imballo in Bobina PVC a perdere



sostituendolo con il

FUSTO in CARTONE

Un approccio eco-responsabile con imballaggi in materiale riciclato e riciclabile!

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NAZIONALI

FS17 450/750V	CPR Cca-s3,d1,a3	*P90*	20
FG17 450/750V	CPR Cca-s1b,d1,a1	*P90*	22
FS18OR18 300/500V	(CPR Cca-s3,d1,a3)	*P50-P51*	24
FS18OR18 450/750V	(CPR Cca-s3,d1,a3)	*P48-P49*	27
FTG18OM16 0,6/1kV PH/F120 CEI 20-45 V2	CPR B2ca-s1a,d1,a1	*A20-A21*	29
RG18M16 0,6/1 kV	CPR B2ca-s1a,d1,a1	*A53*	33
FG18OM16 FG18M16 0,6/1 kV	CPR B2ca-s1a,d1,a1	*A50-A51*	35
FG16M16 / FG16OM16 0,6/1 kV	CPR Cca-s1b,d1,a1	*A60-A61*	38
FG16OM16 0,6/1 kV	CPR Cca-s1b,d2,a1		42
FG16H2M16 0,6/1kV FG16OH2M16 0,6/1kV	CPR Cca-s1b,d1,a1	*A62-A63*	43
FG16AM16 0,6/1kV FG16OAM16 0,6/1kV	CPR Cca-s1b,d1,a1	*G31*	47
FG16NM16 0,6/1kV	CPR Cca-s1b,d1,a1	*A66*	51
FG16R16 / FG16OR16 0,6/1 kV	CPR Cca-s3,d1,a3	*P10-P11*	53
FG16H2R16 0,6/1kV FG16OH2R16 0,6/1kV	CPR Cca-s3,d1,a3	*P03 - P04*	57
FG16AR16 0,6/1kV FG16OAR16 0,6/1kV	CPR Cca-s3,d1,a3	*306-309*	61
FG16NR16 0,6/1kV	(CPR Cca-s3,d1,a3)	*P07*	65
RG16R16 0,6/1KV	CPR Cca-s3,d1,a3	*P97*	67
ARG16R16 0,6/1KV	CPR Cca,s3,d1,a3	*P98*	69
RE4E4X 0,6/1kV	CAVI AUTOPORTANTI AD ELICA VISIBILE SPECIFICHE ENEL DC 4181 DC 4908	*298*	71
A07BN4-F WIND HEAVY WORK		*450*	72
A07ZZ-F WIND LS0H		*451*	74
ARE4E(X) 0.6/1kV	CAVI UNIPOLARI O AD ELICA VISIBILE PER POSA INTERRATA OMOLOGATI ENEL DC 4147	*287*	76
ARE4E4X 0,6/1kV	CAVI PER LINEE AEREE SPECIFICHE DC ENEL 4183 - 4908	*288*	78

ARMONIZZATI

H1Z2Z2-K	SOLAR ENERGY CPR Eca	*395*	82
H1Z2Z2-K(Deutsch)	Solarleitung CPR Eca	*395*	84
H1Z2Z2-K HP	SOLAR ENERGY CPR Dca s2,d2,a1	*395*	86
H05V-K	CPR Eca	*204*	88
H05V-U	CPR Eca	*208*	89
H07V-K	CPR Eca	*202*	90
H07V-U	CPR Eca	*201*	92
H07V-R	CPR Eca	*201*	94
H05V2-K		*258*	96
H05V2-U		*459*	97
H07V2-K		*227*	98
H07V2-R		*461*	100
H03VV-F	CPR Eca	*205-206*	102
H05VV-F	CPR Eca	*203-207*	104
H05VV5-F		*254-255*	106
H05VVC4V5-K		*233-234*	109
H03V2V2-F		*286*	112
H05V2V2-F		*247-249*	114
H05Z-K	CPR Eca	*246*	116
H05Z-U		*239*	118

H07Z-K	CPR Eca	*248*	120
H07G-K		*269*	122
H07G-U			124
H07G-R			125
H07Z1-K type2	CPR Cca- s1b, d1, a1	*263*	126
H07Z1-U type2	CPR Cca-s1b,d1,a1	*264*	128
H05RR-F	CPR Eca	*252-253*	129
H05RN-F	CPR Eca	*259*	131
H05RNH2-F		*261*	133
H07BQ-F	CPR Eca	*240-241*	134
H05BQ-F	OIL RESISTANT IN ACCORDING TO EN 60811-404	*243*	137
H07RN-F 4HP	FOUR HIGH PERFORMANCE CPR Eca	*B50-B51*	139
H07RN-F GECAFLEX	CPR Eca		143
H07RN-F	CPR Eca	*250-251*	145
H07RN8-F	CAVO PER POMPE (SUBMERSIBLE PUMP CABLE)	*266-267*	149
H01N2-D	CAVI PER SALDATRICI (ARC WELDING CABLES)	*256*	153
H03Z1Z1-F	Cavi L.S.0.H.	*283-284*	155
H05Z1Z1-F	Cavi L.S.0.H.	*276-277*	157
H07ZZ-F	CPR Cca-s1b,d1,a1	*272-273*	159
H05BN4-F		*274-275*	163
H07BN4-F	CPR Eca	*274-275*	165
H05RN-F (UNIPOLARE)		*259*	169

ESTERI

TYPE 0361TQ	[GB] (ARC WELDING CABLES)	*455-456*	172
GECA SOLAR A2XY 1.8/3 kV	SUNCONNECT CPR Eca	*492*	174
GECA SOLAR A2XY 1/1 kV	SUNCONNECT CPR Eca	*491*	175
COIL LEAD 4C	[GB]CPR Fca	*457*	177
U-1000 R2V 0,6/1kV	[F]CPR Eca	*270-271*	179
U-1000 AR2V 0,6/1kV	[F]	*470-471*	183
FR-N1X1G1 0,6/1kV	[F]Cca-s1b,d1,a1	*387-388*	186
XGB 0,6/1kV UV Resistant	[B]CPR Cca-s1, d2, a1	*487-488*	190
N2XH 0,6/1 kV	[D]CPR Cca- s1,d2,a1	*378-379-483-484*	194
N2XCH 0,6/1kV	[D] L.S.0.H.	*478-479-485-486*	198
(N)YM(St)-J 300/500V	[D]CPR Eca	*GT3*	201
NYY 0,6/1kV	[D]CPR Eca	*427-428*	203
NSGAFÖU 1.8/3kV	[D] CPR Eca	*282*	207
NYCWY 0,6/1 kV	[D]	*433*	209
NHXMH HP 300/500V	[D]CPR Cca-s1,d2,a1	*B81-B82*	212
NHXMH NORTH WAY 300/500V	[D]CPR Cca-s1,d1,a1	*B79-B80*	215
NHXMH UHP 300/500V	[D]ULTRA HIGH PERFORMANCE CPR B2ca-s1a,d1,a1	*B77-B78*	218
NHXMH 300/500V White	[D]CPR Dca- s2, d2, a1	*381-382*	221
NHXMH 300/500V Grey	[D]CPR Dca- s2, d2, a1	*381-382*	224
1Z2Z2Z5Z2-K / 1Z2Z2Z4Z2-K	ONLY DC SOLAR ENERGY	*495*	227
2XSLCHK- HP 0.6/1kV.	[D] CPR Cca-s1b, d2, a1	*594*	229
2XSLCHK 0.6/1kV.	[D] CPR Eca	*584*	231
2XSLCYK / 2YSLCYK 0.6/1kV	[D] CPR Eca	*597-598*	233
2XSLCY-J / 2YSLCY-J 0.6/1kV	[D] CPR Eca	*597-598*	235

YSLY-OZ/JZ 600/1000V	[D]	*225-213*	237
YSLY HP -OZ/JZ/OB/JB 300/500V	[D] [SR] CPR Cca-s3,d1,a3	*P66-P67-P68-P69*	239
YSLY-OZ/JZ 300/500V	[D] [SR] YSLY-OB/JB Eca	*225-213-209-210*	243
HSLH HP -JZ/OZ 300/500V	[D][BE] LSZH CPR Cca-s1, d2, a1	*B89-B90-B91-B92*	247
HSLH-JZ /OZ 300/500V	[D] LSZH CPR Eca	*591-592*	250
HSLCH-OZ/JZ 300/500V	[D] LSZH		253
HSLCH HP -OZ/JZ 300/500V	[D][BE] LSZH CPR Cca-s1b,d2,a1	*B85-B86-B87-B88*	256
YSLYCY-OZ/JZ 600/1000V	[D]		259
1BQ-F	CPR Eca	*250-251*	261
07BQ-F	CPR Eca	*250-251*	264
07BQ-F Multipli		*250-251*	266
YSLCY HP -OZ/JZ/OB/JB 300/500V	[D]CPR Cca-s3,d1,a3	-------	268
YSLCY-OZ/JZ 300/500V	[D]CPR Eca	*290-291-292-293*	271
YSLYCY 300/500V	[D] (-OZ) (-JZ) (-OB) (-JB) CPR Eca	*290-291-292-293*	274
YSLYSY 300/500V	[D](-OZ) (-JZ) (-OB) (-JB) CPR Eca	*294-295*	277
A-2Y(L)2Y - Telephone Cables HP	[D] CPR Eca	*GTI*	280
A-2Y(L)2Y - Telephone Cables	[D] CPR Fca	*6TS*	282
A-2YF(L)2Y Telephone Cables	[D] CPR Fca	*6TT*	284
A-2YF(L)2Y Telephone Cables HP	[D] CPR Eca	*GTL*	286
J-YY Telephon Cables	[D] [SR] CPR Eca	*GT1*	288
J-Y(St)Y Telephon Cables	[D] [SR] CPR Eca	*GT1*	290
J-Y(St)Y BMK	[D] ALARM CABLES CPR Eca	*GTE*	292
J-H(St)H BMK	[D] ALARM CABLES LSZH CPR Eca		294
J-H(St)H BMK HP	[D] ALARM CABLES LSZH CPR Cca-s1, d2, a1	*6TZ*	296
J-H(St)H HP	[D] Telephone Cables CPR Cca-s1, d2, a1	*6TV*	297
J-H(St)H	[D] Telephone Cables CPR Eca	*GTE*	298
E-BUS / E-BUS LSZH	[D] DOMOTICA/ Building Automation CPR Eca	*GTN-GTO*	300
EIB/KNX E-BUS LSZH H(ST)H HP	[D] DOMOTICA/ Building Automation CPR Cca-s1, d2, a1	*6TU*	301
Li-YY	[D][BE]	*219*	302
Li-YcY	[D]EMC	*212*	304
Li-YcY-TP	[D]	*212*	307
YR			309
FE0 600/1000V	[CH]CPR Dca-s2,d2,a2	*B83-B84*	311
FE0D-FLEX 0,6/1 kV	(CH) CPR Dca-s2,d2,a2	---	314
LiYY HP -OZ/JZ/OB/JB 300/500V	[BE] CPR Cca-s3,d1,a3	*P66-P67-P68-P69*	318
LIYCY HP -OZ/JZ/OB/JB 300/500V	[BE]CPR Cca-s3,d1,a3	*P58 P59 P60 P61 P62 P63 P64 P65*	322

MEDIA TENSIONE

RG26H1M16 12/20kV L.S.O.H. 105°	CPR Cca-s1b,d1,a1	*7A0*	328
RG26H1M16 18/30kV L.S.O.H. 105°	CPR Cca-s1b,d1,a1	*7A5*	330
RG26H1M16X 12/20kV e 18/30kV LS0H 105°	CPR Cca-s1b,d1,a1	*7A0-7A5*	332
RG16H1R12 da 1,8/3kV a 18/30 kV.	(UNIPOLARI EX RG7H1R) CPR Eca	*7I0-7L0-7M0-7O0-7P0-7Q0*	335
RG16H1M16NM16 3.6/6kV	CPR Cca s1,d2,a1		345
RG16H1R12 26/45kV.	(ALTA TENSIONE)CPR Eca	*7R0*	347
RG16H1OR12 da 1,8/3 kV a 26/45 kV	(TRIPOLARI) CPR Eca	*7I1-7L1-7M1-7N1-7O1-7P1-7Q1-7R1*	349
RG16H1ONR12 da 1,8/3 kV a 26/45 kV	(TRIPOLARI ARMATI)CPR Eca	*7I2-7L2-7M2-7N2-7O2-7P2-7Q2-7R2*	357

ARE4H1R 18/30 kV 365
ARE4H1R 12/20 kV 367

745

PRODUCT TECHNICAL DATA SHEETS

FOR ITALIAN MARKET

FS17 450/750V

CPR Cca-s3,d1,a3

Model Product: P90 - 20200603

Cables in accordance with the European Regulation CPR for power supply of construction and other civil engineering works. interior applications and wiring.

Class 5 flexible copper conductor.
PVC insulation in S17 quality

STANDARDS

CEI UNEL 35716-CEI UNEL35016 CEI EN 50525
EN 50575:2014+A1:2016(EN 50399/EN 60332-1-2/EN 60754-2)

Accordingly to the standards BT 2014/35/UE- 2011/65/EU (RoHS 3)

Nominal voltage U0: 450 V
Nominal voltage U: 750 V
Test voltage: 3000 V
Maximun voltage Um: 1000V Installazioni Fisse / for fixed and protected installation
Maximun operating temperature: +70°C
Maximun short circuit temperature: +160°C
Minimum installation and laying temperature: +5°C
Min. operating temperature (without mechanical shocks): -10°C

COMMON FEATURES

Suitable for electrical power system in constructions and other civil engineering buldings , in order to limit fire and smoke production and spead, in accorance with CPR regulations.This cable is suitable for fixed and protected installation up to 1000V. It musrt be laid inside pipes at sight,embedded or close system. Section 1mmq is used for wirings of electric setsor for electric circuits of lifts.Cannot be installed in contact with surfaces.

EMPLOYMENT

Minimum bending radius per D cable diameter (in mm):
Fixed lay:D<12=3D D<20=4D
Free move:D<12=5D D<20=6D

Maximum pulling stress: 50 N/mm2

PACKING

100mt. rings in thermoplastic film or cardboard packagings.In cardboard drums or plastic reel.

CORE COLOURS

Single core: Black, brown, light blue, grey, red, white, yellow/green,orange, pink, dark blue, violet.

INK MARKING

GENERAL CAVI -Cca-s3,d1,a3 - IEMMEQU EFP FS17 450/750V - form. x sect. - inner work order - year -progressive lenght (from section 10mm²)

MARKING ENGRAVING

GENERAL CAVI -Cca-s3,d1,a3 - IEMMEQU EFP FS17 450/750V year

NOTE

Maximum storage temperature: +40°C

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Catalogo prodotti da costruzione CPR UE305/2011

FS17 450/750V

CPR Cca-s3,d1,a3

Model Product: P90 - 20200603

Cores number	Cross section	Approx conductor diameter	Insulation medium thickness	Approx external production diameter	Approx cable weight	Electric resistance at 20°C	Current carrying capacities in air 30°C
(N°)	(mm²)	(mm)	(mm)	(mm)	(kg/km)	(Ohm/km)	(A)
Single core							
1x	1	1.3	0.7	3.0	16	19.5	12
1x	1.5	1.6	0.7	3.4	20	13.3	15.5
1x	2.5	2	0.8	4.1	31	7.98	21
1x	4	2.6	0.8	4.8	46	4.95	28
1x	6	3.4	0.8	5.3	64	3.3	36
1x	10	4.4	1	6.8	111	1.91	50
1x	16	5.7	1	8.7	163	1.21	68
1x	25	6.9	1.2	10.2	247	0.78	89
1x	35	8.1	1.2	11.7	336	0.554	110
1x	50	9.8	1.4	13.9	483	0.386	134
1x	70	11.6	1.4	16.0	670	0.272	171
1x	95	13.3	1.6	18.2	886	0.206	207
1x	120	15.1	1.6	20.2	1108	0.161	239
1x	150	16.8	1.8	22.5	1384	0.129	275
1x	185	18.8	2	24.9	1693	0.106	314
1x	240	21.4	2.2	28.4	2191	0.0801	369

Current carrying capacities are calculated on a single circuit with 3 loaded conductors. Lay type: CEI 64-8 Tab 52.C (3-5-31-32-33-33-18)

FG17 450/750V

CPR Cca-s1b,d1,a1

Model Product: P90 - 20220221

Class 5 flexible copper conductor.
HEPR Insulation in G17 quality

STANDARDS

CEI 20-38 CEI UNEL 35310
EN 50575:2014 + EN 50575/A1:2016(EN 50399/EN 60332-1-2/EN 60754-2/EN 61034-2)

Accordingly to the standards BT 2014/35/UE- 2011/65/EU (RoHS 3)

CABLES FOR INDOORS AND HALOGEN FREE WIRINGS, LSZH

Nominal voltage U0: 450 V
Nominal voltage U: 750 V
Test voltage: 3000 V
Maximun voltage Um: 1000V Installazioni Fisse / for fixed and protected installation
Maximun operating temperature: 90°C
Maximun short circuit temperature: +250°C
Minimum installation and laying temperature: -15°C
Min. operating temperature (without mechanical shocks): -30°C

COMMON FEATURES

For electrical power system in constructions alnd other civil engineering bulginngs,in order to limit fire and smoke production and spread,in accordance with the CPR. This cable is particulary suited in high fire risk places containing a great number of people (like offices, data processing centres, schools, hotels, supermarket, undergrounds, hospitals, cinemas, theaters, discos). Suitable for fixed lay, in pipe, cable-carrier channels, inner wiring of electric switchboards, inside interruption and control equipments for voltage until 1000V in c.a. and 750V d.c. to the ground

EMPLOYMENT

Minimum bending radius per D cable diameter (in mm):
Fixed lay : D<12mm = 3D D<20mm = 4D
Free Move:D<12mm = 5D D<20mm = 6D

Maximum pulling stress: 50 N/mm²

PACKING

100mt. rings in thermoplastic film or drums to agree.

CORE COLOURS

Single core: Black, brown, light blue, grey, red, white, yellow/green, orange, pink,dark blue, violet

INK MARKING

GENERAL CAVI -Cca-s1b,d1,a1 - IEMMEQU EFP FG17 450/750V - form. x sect. - inner work order - year -progressive lenght

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Catalogo prodotti da costruzione CPR UE305/2011

FG17 450/750V

CPR Cca-s1b,d1,a1

Model Product: P90 - 20220221

Cores number	Cross section	Approx conductor diameter	Insulation medium thickness	Max exsternal diameter	Approx cable weight	Electric resistance at 20°C	Current carrying capacities
(N°)	(mm²)	(mm)	(mm)	(mm)	(kg/km)	(Ohm/km)	(A)
Single core							
1x	1.5	2.0	0.7	3.4	19	13.3	20
1x	2.5	2.2	0.8	4.1	30	7.98	28
1x	4	2.6	0.8	4.8	45	4.95	37
1x	6	3.4	0.8	5.3	62	3.3	48
1x	10	4.4	1	6.8	112	1.91	66
1x	16	5.7	1	8.7	166	1.21	88
1x	25	6.9	1.2	10.2	252	0.78	117
1x	35	8.1	1.2	11.7	340	0.554	144
1x	50	9.8	1.4	13.9	483	0.386	175
1x	70	11.6	1.4	16.0	672	0.272	222
1x	95	13.3	1.6	18.2	889	0.206	269
1x	120	15.1	1.6	20.2	1108	0.161	312
1x	150	16.8	1.8	22.5	1390	0.129	355
1x	185	18.8	2	24.9	1682	0.106	417
1x	240	21.4	2.2	28.4	2196	0.0801	490

Current carrying capacities are calculated relatively to piping with 3 loaded conductors.

FS18OR18 300/500V

(CPR Cca-s3,d1,a3)

Model Product: P50-P51 - 20220915

Class 5 flexible copper conductor.
PVC insulation in S18 quality
Not fibrous and not hygroscopic filler
Sheath of PVC R18 type.

STANDARDS

CEI UNEL 35720 CEI 50525-1
EN 50575:2014+A1:2016(EN 50399/EN 60332-1-2/EN 60754-2)

Accordingly to the standards BT 2014/35/UE- 2011/65/EU (RoHS 3)

COMMON FEATURES

Suitable for electrical power supply in buildings and other civil engineering works complying with the Constructor Products Regulation (CPR), with the aim of limiting the spread of the fire according to the expected class. Cable for transporting energy and transmitting signals in internal environments temporary installation also outdoors. For installation in free air in pipes or in ducts and in metal structures (Variant CEI 20-40)

EMPLOYMENT

Minimum bending radius per D cable diameter (in mm):
Fixed lay:D<12=3D D<20=4D
Free move:D<12=5D D<20=6D
Repeted wiring:D<12=7D D<20=8D
Turned off on pulley:D<12=10D D<20=10D

Maximum pulling stress: 15 N/mm²

PACKING

100m rings in thermoplastic film or drums to agree.

FLEXIBLE CABLES insulated with S18 quality PVC, under R18 quality PVC sheath, with special fire reaction characteristics and compliant with Construction Products Regulation (CPR)

Nominal voltage U0: 300 V
Nominal voltage U: 500 V
Test voltage: 2000 V
Maximun operating temperature: + 70°C
Maximun short circuit temperature: + 160°C
Minimum installation and laying temperature: 0°C
Min. operating temperature (without mechanical shocks): -15°C

CORE COLOURS

Two cores: blue, brown;black with numbers

Three cores: Brown - Black - Gray (o Y/G, Blue and Brown)(black with numbers)

Four cores: blue-brown-black-gray (or Y/G instead blue)(black with numbers)

Five cores: Y/G-blue-brown-black-gray (black no Y/G)(black with numbers)

Multicores: black with numbers and Y/G

SHEATH COLOUR

Marrone

INK MARKING

GENERAL CAVI - FR18OR18 300/500V -Cca-s3,d1,a3- IEMMEQU EFP - year - form. x sect. - inner work order - progressive lenght

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FS18OR18 300/500V

(CPR Cca-s3,d1,a3)

Model Product: P50-P51 - 20220915

Cores number	Cross section	Approx conductor diameter	Insulation medium thickness	Maximum external diameter	Approx cable weight	Electric resistance at 20°C	Insulation resistence at 70°C	Current carrying capacities	
								30° In pipe	30°C in air
(N°)	(mm²)	(mm)	(mm)	(mm)	(kg/km)	(Ohm/km)	(Mohm/km)	(A)	(A)
Two cores									
2x	0.75	1.1	0.4	6	48	26.0	0.014	9.5	13
2x	1	1.3	0.4	6.4	55	19.5	0.012	13.5	15
Three cores									
3G	0.75	1.1	0.4	6.4	58	26.0	0.014	9.5	13
3G	1	1.3	0.4	6.8	68	19.5	0.012	13.5	15
Four cores									
4G	0.75	1.1	0.4	7.0	73	26.0	0.014	8	11
4G	1	1.3	0.4	7.6	90	19.5	0.012	12	13.6
Five cores									
5G	0.75	1.1	0.4	7.8	88	26.0	0.014	8	11
5G	1	1.3	0.4	8.3	108	19.5	0.012	12	13.6
Multicores									
7G	0.75	1.1	0.4	8.5	101	26.3	0.014	7.5	8.5
7G	1	1.3	0.4	9.2	127	19.5	0.012	9	10
7G	1.5	1.5	0.4	10.1	160	13.2	0.011	11.5	13
7G	2.5	2	0.5	12.8	243	7.98	0.011	16.5	18.5
10G	1	1.3	0.4	9.2	181	19.7	0.012	8.5	9.5
10G	1.5	1.5	0.4	13.2	233	13.4	0.011	9.5	11
10G	2.5	2	0.5	16.7	352	8.06	0.011	14.5	16
12G	0.75	1.1	0.4	11.5	166	26.3	0.014	6	6.7
12G	1	1.3	0.4	12.2	204	19.7	0.012	8	9.5
12G	1.5	1.5	0.4	13.7	233	13.4	0.011	10.5	22
12G	2.5	2	0.5	16.7	400	8.06	0.011	14.5	16
14G	0.75	1.1	0.4	12.0	170	26.3	0.014	5.5	6.5
14G	1	1.3	0.4	13.0	250	19.7	0.012	8	9
14G	1.5	1.5	0.4	14.5	350	13.4	0.011	9	10
14G	2.5	2	0.5	18.3	500	8.06	0.011	12	13.5
16G	0.75	1.1	0.4	12.9	210	26.3	0.14	5.5	6.5
16G	1	1.3	0.4	13.7	288	19.7	0.012	7	8
16G	1.5	1.5	0.4	15.3	400	13.4	0.011	9	10
16G	2.5	2	0.5	79.6	550	8.06	0.011	12	13.5
19G	0.75	1.1	0.4	13.6	250	26.4	0.014	5	6
19G	1	1.3	0.4	17.0	350	19.7	0.012	7	7.5
19G	1.5	1.5	0.4	19.2	595	13.4	0.011	8.5	9.5
19G	2.5	2	0.5	22.6	650	8.06	0.011	11	12.5

FS18OR18 300/500V

(CPR Cca-s3,d1,a3)

Model Product: P50-P51 - 20220915

Cores number	Cross section	Approx conductor diameter	Insulation medium thickness	Maximum external diameter	Approx cable weight	Electric resistance at 20°C	Insulation resistence at 70°C	Current carrying capacities	
								30° In pipe	30°C in air
(N°)	(mm²)	(mm)	(mm)	(mm)	(kg/km)	(Ohm/km)	(Mohm/km)	(A)	(A)
24G	0.75	1.1	0.4	16.2	270	26.3	0.014	5	5.5
24G	1	1.3	0.4	17.3	450	19.5	0.012	6.5	7
24G	1.5	1.5	0.4	19.5	610	13.5	0.011	8	9
24G	2.5	2	0.5	24.5	800	8.10	0.011	10.0	11.5
27G	0.75	1.1	0.4	16.6	300	26.4	0.014	5	5.5
27G	1	1.3	0.4	17.6	500	19.8	0.012	5.5	6.5
27G	1.5	1.5	0.4	19.9	660	13.5	0.011	7.0	8.0
27G	2.5	2	0.5	25.2	950	8.10	0.011	10	11.5

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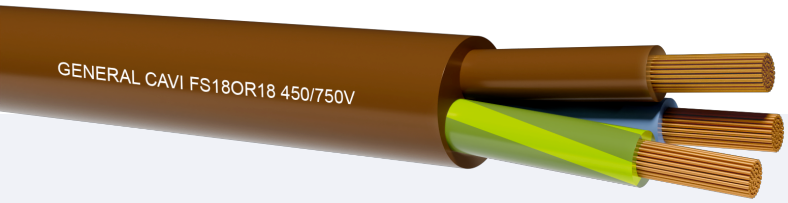
Catalogo prodotti da costruzione CPR UE305/2011

FS18OR18 450/750V

(CPR Cca-s3,d1,a3)

Model Product: P48-P49 - 20220914



Class 5 flexible copper conductor.
PVC insulation in S18 quality
Not fibrous and not hygroscopic filler
Sheath of PVC R18 type.

STANDARDS

CEI UNEL 35720 CEI 50525-1
EN 50575:2014+A1:2016(EN 50399/EN 60332-1-2/EN 60754-2)

Accordingly to the standards BT 2014/35/UE- 2011/65/EU (RoHS 3)

COMMON FEATURES

Suitable for electrical power supply in buildings and other civil engineering works complying with the Constructor Products Regulation (CPR), with the aim of limiting the spread of the fire according to the expected class. Cable for transporting energy and transmitting signals in internal environments temporary installation also outdoors. For installation in free air in pipes or in ducts and in metal structures (Variant CEI 20-40)

EMPLOYMENT

Minimum bending radius per D cable diameter (in mm):
Fixed lay:D<12=3D D<20=4D
Free move:D<12=5D D<20=6D
Repeted wiring:D<12=7D D<20=8D
Turned off on pulley:D<12=10D D<20=10D

Maximum pulling stress: 15 N/mm²

PACKING

100m rings in thermoplastic film or drums to agree.

FLEXIBLE CABLES insulated with S18 quality PVC, under R18 quality PVC sheath, with special fire reaction characteristics and compliant with Construction Products Regulation (CPR)

Nominal voltage U0: 450 V

Nominal voltage U: 500 V

Test voltage: 750 V

Maximun operating temperature: + 70°C

Maximun short circuit temperature: + 160°C

Minimum installation and laying temperature: 0°C

Min. operating temperature (without mechanical shocks): -15°C

CORE COLOURS

Two cores: blue, brown;black with numbers

Three cores: Brown - Black - Gray (o Y/G, Blue and Brown)(black with numbers)

Four cores: blue-brown-black-gray (or Y/G instead blue)(black with numbers)

Five cores: Y/G-blue-brown-black-gray (black no Y/G)(black with numbers)

SHEATH COLOUR

Marrone

INK MARKING

GENERAL CAVI - FR18OR18 450/750V -Cca-s3,d1,a3- IEMMEQU EFP - year - form. x sect. - inner work order - progressive lenght

FS18OR18 450/750V

(CPR Cca-s3,d1,a3)

Model Product: P48-P49 - 20220914

Cores number	Cross section	Approx conductor diameter	Insulation medium thickness	Maximum external diameter	Approx cable weight	Electric resistance at 20°C	Insulation resistence at 70°C	Current carrying capacities	
								30° In pipe	30°C in air
(N°)	(mm²)	(mm)	(mm)	(mm)	(kg/km)	(Ohm/km)	(Mohm/km)	(A)	(A)
Two cores									
2x	1.5	1.5	0.4	8.0	72	13.3	0.011	17	22
2x	2.5	2	0.5	9.5	99	7.98	0.011	23	30
Three cores									
3G	1.5	1.5	0.4	8.5	87	13.3	0.011	17	22
3G	2.5	2	0.5	10.4	125	7.98	0.011	23	30
Four cores									
4G	1.5	1.5	0.4	9.5	106	13.3	0.011	15	18.5
4G	2.5	2	0.5	11.3	154	7.98	0.011	20	25
Five cores									
5G	1.5	1.5	0.4	10.2	135	13.3	0.011	15	18.5
5G	2.5	2	0.5	12.5	196	7.98	0.011	20	25

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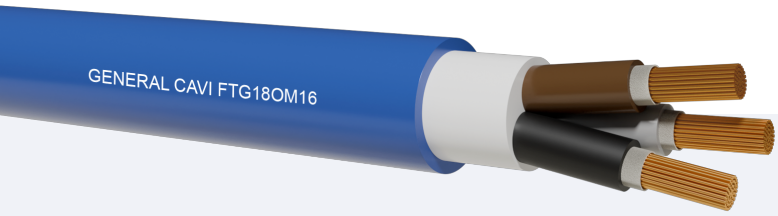
Catalogo prodotti da costruzione CPR UE305/2011

FTG18OM16 0,6/1kV PH/F120 CEI 20-45 V2

CPR B2ca-s1a,d1,a1

Model Product: A20-A21 - 20200407



Power cables, rubber insulated (G18), thermoplastic or elastomeric sheath, with special requirements of reaction to fire performance according to the Construction Products Regulation (CPR).Cables with additional characteristics of operation in the presence of fire and mechanical shocks for at least 120 minutes at a temperature of 830 ° C.

Class 5 flexible copper conductor.
Mica tape.
Elastomeric mixture insulation (G18 quality).
Not fibrous and not hygroscopic filler
LSZH thermoplastic sheath, M16.

STANDARDS

CEI 20-45 V2 IEC 60502-1 pqa CEI EN 50200 CEI EN 50362
CEI 20-36/4-0 /5-0 EN/IEC 60331 pqa
EN 50575:2014 + EN 50575/A1:2016 EN/IEC 60332-1-2

Accordingly to the standards BT 2014/35/UE- 2011/65/EU (RoHS 3)

Nominal voltage U0: 600V(AC) 1800V(DC)
Nominal voltage U: 1kV(AC)1,8kV(DC)
Test voltage: 4000 V
Maximun voltage Um: 1,2kV(AC)1,8kV(DC)
Maximun operating temperature: 90°C
Maximun short circuit temperature for sections up to 240mm²: +250°C
Maximun short circuit temperature for sections over 240mm²: +220°C
Minimum installation and laying temperature: 0°C
Min. operating temperature (without mechanical shocks): -15°C

COMMON FEATURES

For electrical power system in constructions alnd other civil engineering bulginngs,in order to limit fire and smoke production and spread,in accordance with the CPR. Power and control use outdoor and indoor applications, even wet. Suitable for fixed installations at open air, in tube or canals, masonry, metals structures, overhead wire and for direct or indirect underground wiring. The most important property of this kind of cable is its protection against smokes, toxic and corrosive gases in case of fire.Power and control use outdoor applications, even wet AD6.Particularly suitable for installation in tunnels.

EMPLOYMENT

Minimum bending radius per D cable diameter (in mm):
Power flexible cables, class 5 = 12D Control= 14D

Maximum pulling stress: During installation= 50 N/mm² Static stress = 15 N/mm²

PACKING

Drums to agree.

CORE COLOURS

Two cores: blue-brown

Three cores: brown-black-gray (or blue-brown-Y/G)

Four cores: blue-brown-black-gray (or Y/G instead blue)

Five cores: Y/G-blue-brown-black-gray (or black instead Y/G)

Multicores: black with numbers

SHEATH COLOUR

Blue

INK MARKING

GENERALCAVI -B2ca-s1a,d1,a1- IEMMEQU EFP - year - FTG18OM16-0,6/1 kV-CEI 20-45- form x sect. -PH 120(Diameter >20 F120) inner work order - progressive lenght

FTG18OM16 0,6/1kV PH/F120 CEI 20-45 V2

CPR B2ca-s1a,d1,a1

Model Product: A20-A21 - 20200407

FTG18OM16 0,6/1kV PH/F120

Cores number	Cross section	Approx conductor diameter	Insulation medium thickness	Approx Exsternal production diameter	Approx cable weight	Electric resistance at 20°C	Current carrying capacities	
							30° In pipe	20°C In ground
(N°)	(mm²)	(mm)	(mm)	(mm)	(kg/km)	(Ohm/km)	(A)	(A)
Single core								
1x	1,5	1.6	1.0	7.88	83	13.3	20	21
1x	2,5	2	1.0	8.27	97	7.98	28	27
1x	4	2.6	1.0	8.97	120	4.95	37	35
1x	6	3.4	1.0	9.31	141	3.30	48	44
1x	10	4.4	1.0	10.95	201	1.91	66	59
1x	16	5.7	1.0	12.10	268	1.21	88	77
1x	25	6.9	1.2	13.51	363	0.78	117	100
1x	35	8.1	1.2	14.5	460	0.554	144	121
1x	50	9.8	1.4	17.15	650	0.386	175	150
1x	70	11.6	1.4	19.65	870	0.272	222	184
1x	95	13.3	1.6	21.60	1112	0.206	269	217
1x	120	15.1	1.6	23.5	1358	0.161	312	259
1x	150	16.8	1.8	25.40	1656	0.129	355	287
1x	185	18.6	2.0	27.10	1967	0.106	417	323
1x	240	21.4	2.2	32.10	2568	0.0801	490	379
1x	300	23.9	2.4	34.58	3184	0.0641	-	429
Two cores								
2x	1.5	1.6	1.0	12.70	186	13.3	22	23
2x	2.5	2.0	1.0	13.30	232	7.98	30	30
2x	4	2.6	1.0	14.90	287	4.95	40	39
2x	6	3.4	1.0	16.15	356	3.3	51	49
2x	10	4.4	1.0	18.40	421	1.91	69	66
2x	16	5.7	1.0	20.00	669	1.21	91	85
2x	25	6.9	1.2	23.00	959	0.78	119	111
2x	35	8.1	1.2	24.93	1218	0.554	146	136
2x	50	9.8	1.4	28.62	1663	0.386	175	168
2x	70	11.6	1.4	33.73	2543	0.272	221	207
2x	95	13.3	1.6	37.64	3277	0.206	265	245
2x	120	15.1	1.6	41.72	4061	0.161	305	284
2x	150	16.8	1.8	46.45	5615	0.129	-	324
2x	185	18.6	2.0	49.42	6560	0.106	-	359
2x	240	21.4	2.2	56.47	8636	0.0801	-	400
Three cores								

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Catalogo prodotti da costruzione CPR UE305/2011

FTG18OM16 0,6/1kV PH/F120 CEI 20-45 V2

CPR B2ca-s1a,d1,a1

Model Product: A20-A21 - 20200407

Cores number	Cross section	Approx conductor diameter	Insulation medium thickness	Approx Exsternal production diameter	Approx cable weight	Electric resistance at 20°C	Current carrying capacities	
							30° In pipe	20°C In ground
(N°)	(mm²)	(mm)	(mm)	(mm)	(kg/km)	(Ohm/km)	(A)	(A)
3x	1.5	1.6	1.0	13.8	212	13.3	19.5	19
3x	2.5	2.0	1.0	14.26	350	7.98	26	25
3x	4	2.6	1.0	15.63	327	4.95	35	32
3x	6	3.4	1.0	16.94	431	3.3	44	41
3x	10	4.4	1.0	19.98	600	1.91	60	55
3x	16	5.7	1.0	21.77	812	1.21	80	72
3x	25	6.9	1.2	25.19	1215	0.78	105	93
3x	35	8.1	1.2	28.15	1587	0.554	128	114
3x	50	9.8	1.4	32.98	2203	0.386	154	141
3x	70	11.6	1.4	37.12	2957	0.272	194	174
3x	95	13.3	1.6	42.09	3930	0.206	233	206
3x	120	15.1	1.6	46.70	4813	0.161	268	238
3x	150	16.8	1.8	51.29	5950	0.129	300	272
3x	185	18.6	2.0	56.24	7204	0.106	340	306
3x	240	21.4	2.2	64.77	9438	0.0801	398	360
Four cores								
4x	1.5	1.6	1.0	14.20	250	13.3	19.5	19
4x	2.5	2.0	1.0	15.21	309	7.98	26	25
4x	4	2.6	1.0	16.78	387	4.95	35	32
4x	6	3.4	1.0	18.15	526	3.3	44	41
4x	10	4.4	1.0	21.40	744	1.91	60	55
4x	16	5.7	1.0	25.12	1042	1.21	80	72
4x	25	6.9	1.2	29.10	1486	0.78	105	93
4x	3x35+1x25	8.1	1.2	31.40	1886	0.554	130	114
4x	3x50+1x25	9.8	1.4	34.90	2493	0.386	155	141
4x	3x70+1x35	11.6	1.4	39.27	3404	0.272	194	174
4x	3x95+1x50	13.3	1.6	45.08	4549	0.206	235	206
4x	3x120+1x70	15.1	1.6	51.44	5841	0.161	267	238
4x	3x150+1x95	16.8	1.8	56.48	7256	0.129	-	272
4x	3x185+1x95	18.6	2.0	60.09	8398	0.106	-	306
4x	3x240+1x150	21.4	2.2	69.90	11290	0.0801	-	360
Five cores								
5G	1.5	1.6	1.0	15.47	304	13.3	19.5	19
5G	2.5	2.0	1.0	16.69	377	7.98	26	25
5G	4	2.6	1.0	18.20	480	4.95	35	32

FTG18OM16 0,6/1kV PH/F120 CEI 20-45 V2

CPR B2ca-s1a,d1,a1

Model Product: A20-A21 - 20200407

Cores number	Cross section	Approx conductor diameter	Insulation medium thickness	Approx Exsternal production diameter	Approx cable weight	Electric resistance at 20°C	Current carrying capacities	
							30° In pipe	20°C In ground
(N°)	(mm²)	(mm)	(mm)	(mm)	(kg/km)	(Ohm/km)	(A)	(A)
5G	6	3.4	1.0	19.90	660	3.3	44	41
5G	10	4.4	1.0	24.10	954	1.91	60	55
5G	16	5.7	1.0	28.30	1304	1.21	80	72
5G	25	6.9	1.2	32.20	1952	0.78	105	93
5G	35	8.1	1.2	36.40	2577	0.554	130	114
5G	50	9.8	1.4	41.00	3508	0.386	155	141
5G	70	11.6	1.4	49.10	4907	0.272	194	174
Multicores								
7G	1.5	1.6	1.0	17.50	401	13.3	19.5	19
7G	2.5	2.0	1.0	18.31	502	7.98	26	25
10G	1.5	1.6	1.0	19.83	534	13.3	19.5	19
10G	2.5	2.0	1.0	21.50	673	7.98	26	25
12G	1.5	1.6	1.0	21.87	618	13.3	19.5	19
12G	2.5	2.0	1.0	23.79	782	7.98	26	25
16G	1.5	1.6	1.0	24.28	837	13.3	19.5	19
16G	2.5	2.0	1.0	27.53	1087	7.98	26	25
19G	1.5	1.6	1.0	25.50	942	13.3	19.5	19
19G	2.5	2.0	1.0	28.89	1228	7.98	26	25
24G	1.5	1.6	1.0	29.78	1163	13.3	19.5	19
24G	2.5	2.0	1.0	33.15	1533	7.98	26	25

Three, four, five and multicores cables can be produced also with Y/G core. Current carrying capacities for single core cables are calculated on 3 close cables, for two core cables with two charged conductors and for three core cables with three charged conductors. . Outer diameters are approximates and they can have variations of max +/- 3%.
Current Carrying capacities acording to UNEL 35026 with underground laying standard CEI 64-8-61 (ground temp=20°C, depth=0.8m, ground resistivity=1.5 k m/W.).
Special features on request:RI (Hydrocarbon Resistant) CEI 20-34 / 0-1 and PQA to OIL & GAS specifications

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RG18M16 0,6/1 kV

CPR B2ca-s1a,d1,a1

Model Product: A53 - 20191014

Power cables, rubber insulated (G18), thermoplastic sheathed, with special requirements of reaction to fire performance according to the Construction Products Regulation (CPR) Cables for fixed installation - Rated voltages Uo/U 0,6/1 kV

Rigid class 2 red copper conductor.
Elastomeric mixture insulation (G18 quality).
Not fibrous and not hygroscopic filler
LSZH thermoplastic sheath, M16.

STANDARDS

CEI 20-38 IEC 60502-1 CEI UNEL 35314
EN 50575:2014 + EN 50575/A1:2016

Accordingly to the standards BT 2014/35/UE- 2011/65/EU (RoHS 3)

Nominal voltage U0: 600V(AC) 1800V(DC)
Nominal voltage U: 1kV(AC)1,8kV(DC)
Test voltage: 4000 V
Maximun voltage Um: 1,2kV(AC)1,8kV(DC)
Maximun operating temperature: 90°C
Maximun short circuit temperature for sections up to 240mm²: +250°C
Maximun short circuit temperature for sections over 240mm²: +220°C
Minimum installation and laying temperature: 0°C
Min. operating temperature (without mechanical shocks): -15°C

COMMON FEATURES

For electrical power system in constructions alnd other civil engineering bulginngs,in order to limit fire and smoke production and spread,in accordance with the CPR. Power and control use outdoor and indoor applications, even wet. Suitable for fixed installations at open air, in tube or canals, masonry, metals structures, overhead wire and for direct or indirect underground wiring. The most important property of this kind of cable is its protection against smokes, toxic and corrosive gases in case of fire.Power and control use outdoor applications, even wet AD6.

EMPLOYMENT

Minimum bending radius per D cable diameter (in mm):
Rigid cables, class 2; 6D

Maximum pulling stress: During installation= 50 N/mm²
Static stress = 15 N/mm²

PACKING

Drums to agree.

CORE COLOURS

Single core: black

SHEATH COLOUR

Black

INK MARKING

GENERALCAVI -B2ca-s1a,d1,a1- IEMMEQU EFP - year - RG18M16-0,6/1 kV- 1 x sect. - inner work order - progressive lenght

RG18M16 0,6/1 kV

CPR B2ca-s1a,d1,a1

Model Product: A53 - 20191014

RG18M16

Cores number	Cross section	Approx conductor diameter	Insulation medium thickness	Max exsternal production diameter	Approx cable weight	Electric resistance at 20°C	Current carrying capacities	
							30° In pipe	20°C In ground
(N°)	(mm²)	(mm)	(mm)	(mm)	(kg/km)	(Ohm/km)	(A)	(A)
Single core								
1x	10	3.8	1.0	11.2	299	1.83	66	63
1x	16	4.7	1.0	11.7	386	1.15	88	82
1x	25	6.0	1.2	13.4	520	0.727	117	108
1x	35	7.0	1.2	14.7	655	0.524	144	132
1x	50	8.2	1.4	16.6	839	0.387	175	166
1x	70	9.8	1.4	17.5	1095	0.268	222	204
1x	95	11.5	1.6	20.8	1480	0.193	269	242
1x	120	13.0	1.6	22.6	1800	0.153	312	274
1x	150	14.4	1.8	24.7	2170	0.124	255	324
1x	185	16.1	2.0	27.1	2575	0.0991	417	364
1x	240	18.5	2.2	30.3	3280	0.0754	490	427

Current carrying capacities for single core cables are calculated on 3 close cables.
Current Carrying capacities acording to UNEL 35026 with underground laying standard CEI 64-8-61 (ground temp=20°C, depth=0.8m, ground resistivity=1.5 k m/W.).

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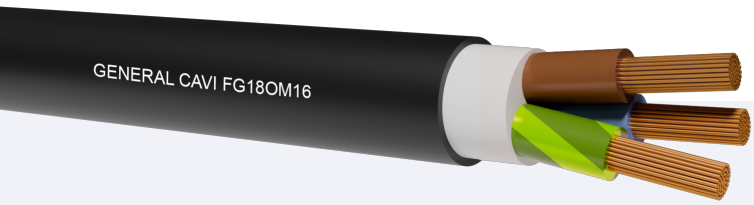
Catalogo prodotti da costruzione CPR UE305/2011

FG18OM16 FG18M16 0,6/1 kV

CPR B2ca-s1a,d1,a1

Model Product: A50-A51 - 20241115



Class 5 flexible copper conductor.
Crosslinked Insulation (G18 / DIX3)
Not fibrous and not hygroscopic filler
LSZH thermoplasstic sheath (M16 / DM7E)

STANDARDS

CEI 20-38 IEC 60502-1 CEI UNEL 35312+V1-35316(As per IEC 60502-1 UNE 21123-4)
EN 50575:2014 + EN 50575/A1:2016(EN 50399/EN 60332-1-2/EN 60754)

Accordingly to the standards BT 2014/35/UE- 2011/65/EU (RoHS 3)

Power cables with special requirements of reaction to fire performance according to the Construction Products Regulation (CPR) Cables with flexible conductors for fixed installation -

Nominal voltage U0: 600V(AC) 1800V(DC)
Nominal voltage U: 1kV(AC)1,8kV(DC)
Test voltage: 4000 V
Maximun voltage Um: 1,2kV(AC)1,8kV(DC)
Maximun operating temperature: 90°C
Maximun short circuit temperature for sections up to 240mm²: +250°C
Maximun short circuit temperature for sections over 240mm²: +220°C
Minimum installation and laying temperature: 0°C
Min. operating temperature (without mechanical shocks): -15°C

COMMON FEATURES

For electrical power system in constructions alnd other civil engineering bulginngs,in order to limit fire and smoke production and spread,in accordance with the CPR. Power and control use outdoor and indoor applications, even wet. Suitable for fixed installations at open air, in tube or canals, masonry, metals structures, overhead wire and for direct or indirect underground wiring. The most important property of this kind of cable is its protection against smokes, toxic and corrosive gases in case of fire.Power and control use outdoor applications, even wet AD6.

EMPLOYMENT

Minimum bending radius per D cable diameter (in mm):
Power flexible cables, class 5 = 4D Control= 6D

Maximum pulling stress: During installation= 50 N/mm² Static stress = 15 N/mm²

PACKING

Drums to agree.

CORE COLOURS

Single core: black

Two cores: blue-brown

Three cores: brown-black-gray (or blue-brown-Y/G)

Four cores: blue-brown-black-gray (or Y/G instead blue)

Five cores: Y/G-blue-brown-black-gray (or black instead Y/G)

Multicores: black with numbers

SHEATH COLOUR

Black

INK MARKING

GENERALCAVI -B2ca-s1a,d1,a1- IEMMEQU EFP - year - FG18(O)M16-0,6/1 kV- form x sect. - inner work order - progressive lenght

NOTE

Special features on request:RI (Hydrocarbon Resistant) CEI 20-34 / 0-1 PQA to OIL & GAS specifications
*NO EFP IMQ

FG18OM16 FG18M16 0,6/1 kV

CPR B2ca-s1a,d1,a1

Model Product: A50-A51 - 20241115

Cores number	Cross section	Approx conductor diameter	Insulation medium thickness	Max exsternal production diameter	Approx cable weight	Electric resistance at 20°C	Current carrying capacities	
							30° In pipe	20°C In ground
(N°)	(mm²)	(mm)	(mm)	(mm)	(kg/km)	(Ohm/km)	(A)	(A)
Single core								
1x	4*	2.6	1.0	9.06	116	4.95	37	35
1x	6*	3.4	1.0	9.52	139	3.30	48	44
1x	10	3.9	1.0	10.50	185	1.91	66	59
1x	16	5.0	1.0	11.53	247	1.21	88	77
1x	25	6.4	1.2	13.02	342	0.780	117	100
1x	35	7.7	1.2	14.72	455	0.554	144	121
1x	50	9.2	1.4	16.48	612	0.386	175	150
1x	70	11.0	1.4	19.26	835	0.272	222	184
1x	95	12.5	1.6	21.52	1090	0.206	269	217
1x	120	14.2	1.6	23.48	1332	0.161	312	259
1x	150	15.8	1.8	25.44	1628	0.129	355	287
1x	185	17.5	2.0	27.19	1953	0.106	417	323
1x	240	20.1	2.2	30.38	2485	0.0801	490	379
1x	300	22.5	2.4	33.99	3078	0.0641	607	429
1x	400*	27.5	2.8	38.52	4064	0.0486	703	541
1x	500*	35.0	3.0	44.50	5165	0.0384	832	565
1x	630*	39.0	3.0	49.23	6799	0.0287	946	645
Two cores								
2x	1.5	1.5	1.0	13,4	178	13.3	22	23
2x	2.5	2.0	1.0	14.4	209	7.98	30	30
2x	4	2.5	1.0	15.6	273	4.95	40	39
2x	6	3.0	1.0	16.8	326	3.3	51	49
2x	10	3.9	1.0	18.7	459	1.91	69	66
Three cores								
3x	1.5	1.5	1.0	14.1	212	13.3	19.5	19
3x	2.5	2.0	1.0	15.1	263	7.98	26	25
3x	4	2.5	1.0	16.4	334	4.95	35	32
3x	6	3.0	1.0	17.7	409	3.3	44	41
3x	10	3.9	1.0	19.8	575	1.91	60	55
Four cores								
4x	1.5	1.5	1.0	16.3	241	13.3	19.5	19
4x	2.5	2.0	1.0	17.6	295	7.98	26	25
4x	4	2.5	1.0	19.2	385	4.95	35	32
4x	6	3.0	1.0	20.8	491	3.3	44	41
4x	10	3.9	1.0	23.4	700	1.91	60	55

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FG18OM16 FG18M16 0,6/1 kV

CPR B2ca-s1a,d1,a1

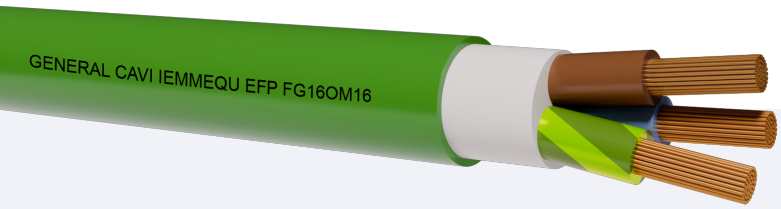
Model Product: A50-A51 - 20241115

Cores number	Cross section	Approx conductor diameter	Insulation medium thickness	Max exsternal production diameter	Approx cable weight	Electric resistance at 20°C	Current carrying capacities	
							30° In pipe	20°C In ground
(N°)	(mm²)	(mm)	(mm)	(mm)	(kg/km)	(Ohm/km)	(A)	(A)
Five cores								
5G	1.5	1.5	1.0	16.3	278	13.3	19.5	19
5G	2.5	2.0	1.0	17.6	345	7.98	26	25
5G	4	2.5	1.0	19.2	457	4.95	35	32
5G	6	3.0	1.0	20.8	572	3.3	44	41
5G	10	3.9	1.0	23.4	835	1.91	60	56
Multicores								
7G	1.5	1.5	1.0	17.5	342	13.4	19.5	19
7G	2.5	2.0	1.0	19.0	436	7.98	26	25
10G	1.5	1.5	1.0	21.6	445	13.4	19.5	19
10G	2.5	2.0	1.0	23.5	575	8.06	26	25
12 G	1.5	1.5	1.0	22.3	516	13.4	19.5	19
14G	1.5	1.5	1.0	23.3	597	13.4	19.5	19
14G	2.5	2.0	1.0	24.2	774	8.06	26	25
19G	1.5	1.5	1.0	25.7	735	13.4	19.5	19
19G	2.5	2.0	1.0	26.4	968	8.06	26	25
24G	1.5	1.5	1.0	29.8	903	13.5	19.5	19
24G	2.5	2.0	1.0	32.6	1195	8.10	26	25
27G	1.5	1.5	1.0	32.8	984	13.5	19	19

FG16M16 / FG16OM16 0,6/1 kV

CPR Cca-s1b,d1,a1

Model Product: A60-A61 - 20220222



POWER AND CONTROL CABLES INSULATED IN G16 HIGH QUALITY HEPR NOT PROPAGATING FIRE, HALOGEN FREE AND WITH LOW EMISSION OF SMOKES, TOXIC AND CORROSIVE GASES.(CPR)UE 305/11

Class 5 flexible copper conductor.
Elastomeric mixture insulation (G16 quality).
Not fibrous and not hygroscopic filler
LSZH thermoplastic sheath, M16.

STANDARDS

CEI 20-13 CEI 20-38 pqa IEC 60502-1 CEI UNEL 35324 -35328-35016
EN 50575:2014+A1:2016(EN 50399/EN 60332-1-2/EN 60754)

Accordingly to the standards BT 2014/35/UE- 2011/65/EU (RoHS 3)

Nominal voltage U0: 600V(AC) 1800V(DC)
Nominal voltage U: 1kV(AC)1,8kV(DC)
Test voltage: 4000 V
Maximun voltage Um: 1,2kV(AC)1,8kV(DC)
Maximun operating temperature: 90°C
Maximun short circuit temperature for sections up to 240mm²: +250°C
Maximun short circuit temperature for sections over 240mm²: +220°C
Minimum installation and laying temperature: 0°C
Min. operating temperature (without mechanical shocks): -15°C

COMMON FEATURES

For electrical power system in constructions alnd other civil engineering bulginngs,in order to limit fire and smoke production and spread,in accordance with the CPR. Suitable for fixed installations at open air, in tube or canals, masonry, metals structures, overhead wire and for direct or indirect underground wiring. The most important property of this kind of cable is its protection against smokes, toxic and corrosive gases in case of fire.Power and control use outdoor applications, even wet AD7.

EMPLOYMENT

Minimum bending radius per D cable diameter (in mm):
Power flexible cables, class 5 = 4D
Control flexible cables, class 5 = 6D

Maximum pulling stress: During installation= 50 N/mm²
Static stress = 15 N/mm²

PACKING

Drums to agree.

CORE COLOURS

Single core: Black

Two cores: blue-brown

Three cores: brown-black-gray (or blue-brown-Y/G)

Four cores: blue-brown-black-gray (or Y/G instead blue)

Five cores: Y/G-blue-brown-black-gray (or black instead Y/G)

Multicores: black with numbers

SHEATH COLOUR

Preferably Green

INK MARKING

GENERALCAVI -Cca-s1b,d1,a1- IEMMEQU EFP - year - FG16(O)M16-0,6/1 kV - form x sect. - inner work order - progressive lenght

NOTE

Special features on request:RI (Hydrocarbon Resistant) CEI 20-34 / 0-1 and PQA to OIL & GAS specifications Preferably Black Sheath

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FG16(O)M16 0,6/1kV

Cores number	Cross section	Approx conductor diameter	Insulation medium thickness	Max exsternal production diameter	Approx cable weight	Electric resistance at 20°C	Current carrying capacities	
							30° In pipe	20°C In ground
(N°)	(mm²)	(mm)	(mm)	(mm)	(kg/km)	(Ohm/km)	(A)	(A)
Single core								
1x	6*	3.4	0.7	9.90	110	3.3	48	44
1x	10	4.4	0.7	10.9	131	1.91	66	59
1x	16	5.7	0.7	11.4	175	1.21	88	77
1x	25	6.9	0.9	13.2	325	0.78	117	100
1x	35	8.1	0.9	14.6	424	0.554	144	121
1x	50	9.8	1.0	16.4	577	0.386	175	150
1x	70	11.6	1.1	18.3	778	0.272	222	184
1x	95	13.3	1.1	20.4	997	0.206	269	217
1x	120	15.1	1.2	22.4	1236	0.161	312	259
1x	150	16.8	1.4	24.8	1511	0.129	355	287
1x	185	18.6	1.6	27.0	1812	0.106	417	323
1x	240	21.4	1.7	30.2	2331	0.0801	490	379
1x	300	23.9	1.8	33.0	2924	0.0641	-	429
1x	400*	27.5	2	37.7	3875	0.0486	-	541
1x	500*	28.5	2.1	45.0	4953	0.0384	-	599
1x	630*	32.8	2.3	51.1	6558	0.0287	-	683
Two cores								
2x	1.5	1.6	0.7	12.0	151	13.3	22	23
2x	2.5	2.0	0.7	13.0	196	7.98	30	30
2x	4	2.6	0.7	14.2	258	4.95	40	39
2x	6	3.4	0.7	15.4	326	3.3	51	49
2x	10	4.4	0.7	17.3	503	1.91	69	66
2x	16	5.7	0.7	19.4	689	1.21	91	86
2x	25	6.9	0.9	23.0	976	0.78	119	111
2x	35	8.1	0.9	25.7	1363	0.554	146	136
2x	50	9.8	1.0	29.3	1888	0.386	175	168
2x	70	11.6	1.1	33.1	2658	0.272	221	207
2x	95	13.3	1.1	37.4	3389	0.206	265	245
2x	120	15.1	1.2	41.5	4285	0.161	305	284
2x	150	16.8	1.4	46.1	5284	0.129	-	324
2x	185*	18.6	1.6	48.77	6546	0.106	-	380
2x	240*	21.4	1.7	57,73	8556	0.0801	-	430
Three cores								
3x	1.5	1.6	0.7	12.5	151	13.3	19.5	19

FG16M16 / FG16OM16 0,6/1 kV

CPR Cca-s1b,d1,a1

Model Product: A60-A61 - 20220222

Cores number	Cross section	Approx conductor diameter	Insulation medium thickness	Max exsternal production diameter	Approx cable weight	Electric resistance at 20°C	Current carrying capacities	
							30° In pipe	20°C In ground
(N°)	(mm²)	(mm)	(mm)	(mm)	(kg/km)	(Ohm/km)	(A)	(A)
3x	2.5	2.0	0.7	13.6	196	7.98	26	25
3x	4	2.6	0.7	14.9	258	4.95	35	32
3x	6	3.4	0.7	16.2	326	3.3	44	41
3x	10	4.4	0.7	18.2	503	1.91	60	55
3x	16	5.7	0.7	20.6	689	1.21	80	72
3x	25	6.9	0.9	24.5	976	0.78	105	93
3x	35	8.1	0.9	27.3	1362	0.554	128	114
3x	50	9.8	1.0	31.2	1888	0.368	154	141
3x	70	11.6	1.1	35.6	2658	0.272	194	174
3x	95	13.3	1.1	40.0	3389	0.206	233	206
3x	120	15.1	1.2	44.4	4285	0.161	268	238
3x	150	16.8	1.4	49.5	5284	0.129	300	272
3x	185	18.6	1.6	55.2	6546	0.106	340	306
3x	240	21.4	1.7	61.9	10814	0.0801	398	360
3x	300	22.5	1.8	68.0	14510	0.0641	-	429
Four cores								
4x	1.5	1.6	0.7	13.4	180	13.3	19.5	19
4x	2.5	2.0	0.7	14.6	224	7.98	26	25
4x	4	2.6	0.7	16.0	309	4.95	35	32
4x	6	3.4	0.7	17.5	409	3.3	44	41
4x	10	4.4	0.7	19.8	620	1.91	60	55
4x	16	5.7	0.7	22.4	881	1.21	80	72
4x	25	6.9	0.9	26.8	1235	0.78	105	93
4x	35*	8.1	0.9	30.5	1707	0.554	128	114
4x	50*	9.8	1.0	33.5	2361	0.386	154	141
4x	70*	11.6	1.1	38.5	3351	0.272	194	174
4x	95*	13.3	1.1	43.5	4356	0.206	233	206
4x	120*	15.1	1.2	49.0	5680	0.161	268	238
4x	150*	16.8	1.4	53.5	7058	0.129	300	272
4x	185*	18.6	1.7	60.3	8930	0.106	340	306
4x	240*	21.4	1.7	70.5	10821	0.0801	398	360
3x35+1x25		8.1	0.9	29.2	1569	0.554	120	114
3x50+1x25		9.8	1.0	32.4	2184	0.386	154	141
3x70+1x35		11.6	1.1	37.0	3108	0.272	194	174
3x95+1x50		13.3	1.1	42.0	4119	0.206	233	206
3x120+1x70		15.1	1.2	46.9	5354	0.161	268	238

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Catalogo prodotti da costruzione CPR UE305/2011

FG16M16 / FG16OM16 0,6/1 kV

CPR Cca-s1b,d1,a1

Model Product: A60-A61 - 20220222

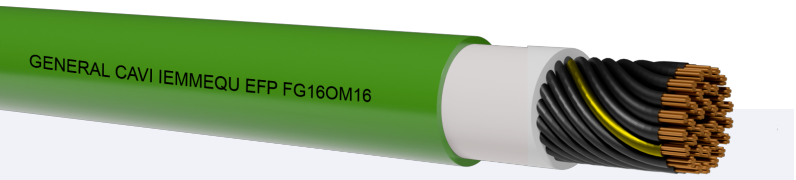
Cores number	Cross section	Approx conductor diameter	Insulation medium thickness	Max exsternal production diameter	Approx cable weight	Electric resistance at 20°C	Current carrying capacities	
							30° In pipe	20°C In ground
(N°)	(mm²)	(mm)	(mm)	(mm)	(kg/km)	(Ohm/km)	(A)	(A)
3x150+1x95		16.8	1.4	52.5	6679	0.129	300	272
3x185+1x95		18.6	1.6	57.3	8155	0.106	340	306
3x240+1x150		21.4	1.7	65.5	10334	0.0801	398	360
3x300+1x150		22.5	1.8	70.8	13078	0.0641	455	429
Five cores								
5x	1.5	1.6	0.7	14.4	201	13.3	19.5	19
5x	2.5	2.0	0.7	15.6	261	7.98	26	25
5x	4	2.6	0.7	17.3	364	4.95	35	32
5x	6	3.4	0.7	18.9	469	3.3	44	41
5x	10	4.4	0.7	21.5	744	1.91	60	56
5x	16	5.7	0.7	24.4	1100	1.21	80	72
5x	25	6.9	0.9	29.3	1554	0.78	105	93
5x	35	8.1	0.9	32.8	2148	0.554	130	114
5x	50	9.8	1.0	38.2	3027	0.386	155	141
5x	70*	11.6	1.1	44.58	4321	0.272	194	174
5x	95*	13.3	1.1	49,28	5562	0.206	235	206
5x	120*	15.1	1.2	55.06	6920	0.161	267	238
Multicores								
7x	1.5	1.6	0.7	15.4	261	13.3	11.5	16
7x	2.5	2.0	0.7	16.8	348	7.98	15.5	21
10x	1.5	1.6	0.7	18.7	303	13.3	11.5	16
10x	2.5	2.0	0.7	20.8	401	7.98	15.5	21
12x	1.5	1.6	0.7	19.3	358	13.3	12.5	9.5
12x	2.5	2.0	0.7	21.3	497	7.98	17.5	12
16x	1.5	1.6	0.7	21.1	535	13.3	12.5	9.5
16x	2.5	2.0	0.7	23.3	731	7.98	17.5	12
19x	1.5	1.6	0.7	22.1	593	13.3	11.5	8.0
19x	2.5	2.0	0.7	24.5	824	7.98	14.0	10.5
24x	1.5	1.6	0.7	25.4	677	13.3	11.5	8.0
24x	2.5	2.0	0.7	28.3	1020	7.98	14.0	10.5

Three, four, five and multicores cables can be produced also with Y/G core. Current carrying capacities for single core cables are calculated on 3 close cables, for two core cables with two charged conductors and for three core cables with three charged conductors. .
Current Carrying capacities acording to UNEL 35026 with underground laying standard CEI 64-8-61 (ground temp=20°C, depth=0.8m, ground resistivity=1.5 k m/W.).
The sections marked with (*) appear in the UNEL tables, not subject to the IMQ EFP mark, but comply with EU Regulation 305/11 (CPR)

FG16OM16 0,6/1 kV

CPR Cca-s1b,d2,a1

Model Product: - 20250224



POWER AND CONTROL CABLES INSULATED IN G16 HIGH QUALITY HEPR NOT PROPAGATING FIRE, HALOGEN FREE AND WITH LOW EMISSION OF SMOKES, TOXIC AND CORROSIVE GASES.(CPR)UE 305/11

Class 5 flexible copper conductor.
Elastomeric mixture insulation (G16 quality).
Not fibrous and not hygroscopic filler
LSZH thermoplastic sheath, M16.

STANDARDS

CEI 20-13 CEI 20-38 pqa IEC 60502-1 CEI UNEL 35324 -35328-35016
EN 50575:2014+A1:2016(EN 50399/EN 60332-1-2/EN 60754)

Accordingly to the standards BT 2014/35/UE- 2011/65/EU (RoHS 3)

Nominal voltage U0: 600V(AC) 1800V(DC)

Nominal voltage U: 1kV(AC)1,8kV(DC)

Test voltage: 4000 V

Maximun voltage Um: 1,2kV(AC)1,8kV(DC)

Maximun operating temperature: 90°C

Maximun short circuit temperature for sections up to 240mm²: +250°C

Maximun short circuit temperature for sections over 240mm²: +220°C

Minimum installation and laying temperature: 0°C

Min. operating temperature (without mechanical shocks): -15°C

COMMON FEATURES

For electrical power system in constructions alnd other civil engineering bulginngs,in order to limit fire and smoke production and spread,in accordance with the CPR. Suitable for fixed installations at open air, in tube or canals, masonry, metals structures, overhead wire and for direct or indirect underground wiring. The most important property of this kind of cable is its protection against smokes, toxic and corrosive gases in case of fire.Power and control use outdoor applications, even wet AD7.

EMPLOYMENT

Minimum bending radius per D cable diameter (in mm):
Power flexible cables, class 5 = 4D
Control flexible cables, class 5 = 6D

Maximum pulling stress: During installation= 50 N/mm²
Static stress = 15 N/mm²

CORE COLOURS

Multicores: black with numbers +Y/G

SHEATH COLOUR

Preferably Green

INK MARKING

GENERALCAVI -Cca-s1b,d2,a1- - year - FG16(O)M16-0,6/1 kV - form x sect. - inner work order - progressive lenght

Cores number	Cross section	Approx conductor diameter	Insulation medium thickness	Max exsternal production diameter	Approx cable weight	Electric resistance at 20°C	Current carrying capacities	
							30° In pipe	20°C In ground
(N°)	(mm²)	(mm)	(mm)	(mm)	(kg/km)	(Ohm/km)	(A)	(A)
Multicores								
30x	1.5	1.6	0.7	26.5	710	13.3	11.5	8.0

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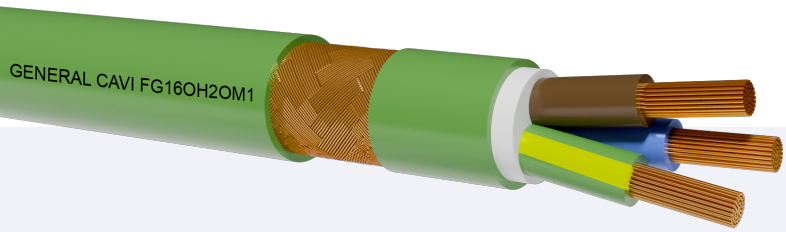
FG16H2M16 0,6/1kV
FG16OH2M16 0,6/1kV

CPR Cca-s1b,d1,a1

Model Product: A62-A63 - 20201123



FLEXIBLE POWER AND CONTROL CABLE WITH COPPER WIRES BRAID SCREEN AND INSULATION IN G16 HIGH QUALITY HEPR , HALOGEN FREE WITH LOW EMISSION OF SMOKES, TOXIC AND CORROSIVE GASES

Class 5 flexible copper conductor.
Elastomeric mixture insulation (G16 quality).
M16+not fibruous and not hygroscopic filler
Shield made up of a copper wires braid SH.
LSZH thermoplastic sheath, M16.

STANDARDS

CEI 20-13 CEI 20-38 pqa IEC 60502-1 CEI UNEL 35324 -35328-35016
EN 50575:2014 + EN 50575/A1:2016

Accordingly to the standards BT 2014/35/UE- 2011/65/EU (RoHS 3)

Nominal voltage U0: 600V(AC) 1800V(DC)
Nominal voltage U: 1kV(AC)1,8kV(DC)
Test voltage: 4000 V
Maximun voltage Um: 1,2kV(AC)1,8kV(DC)
Maximun operating temperature: 90°C
Maximun short circuit temperature for sections up to 240mm²: +250°C
Maximun short circuit temperature for sections over 240mm²: +220°C
Minimum installation and laying temperature: 0°C
Min. operating temperature (without mechanical shocks): -15°C

COMMON FEATURES

For electrical power system in constructions alnd other civil engineering bulginngs,in order to limit fire and smoke production and spread,in accordance with the CPR. Power and control use outdoor applications, even wet. For fixing outside in free air, but protected by UV rays. The most important property of this kind of cable is its copper screen protection against electromagnetic interferences. It is especially suitable for signals.Power and control use outdoor applications, even wet AD7.

EMPLOYMENT

Minimum bending radius per D cable diameter (in mm): 8D

Maximum pulling stress: During installation=50 N/mm²
Static stress=15 N/mm²

PACKING

Drums to agree.

CORE COLOURS

Two cores: blue-brown

Three cores: brown-black-gray (or blue-brown-Y/G)

Four cores: blue-brown-black-gray (or Y/G instead blue)

Five cores: Y/G-blue-brown-black-gray (or black instead Y/G)

Multicores: black with numbers.

SHEATH COLOUR

Preferably Green

INK MARKING

GENERALCAVI - IEMMEQU EFP - Cca-s1b,d1,a1 - year -FG16OH2M16-0,61/kV - form x sect. -inner work order - progressive lenght

NOTE

Special features on request:RI (Hydrocarbon Resistant) CEI 20-34 / 0-1 and PQA to OIL & GAS specifications Preferably Black Sheath

FG16H2M16 0,6/1kV
FG16OH2M16 0,6/1kV

CPR Cca-s1b,d1,a1

Model Product: A62-A63 - 20201123

Cores number	Cross section	Approx conductor diameter	Insulation medium thickness	Maximum external diameter	Approx cable weight	Electric resistance at 20°C	Current carrying capacities	
							30°C in air pipe	20°C In ground
(N°)	(mm²)	(mm)	(mm)	(mm)	(kg/km)	(Ohm/km)		
Single core								
1x	10*	4.4	0.7	11.60	220	1.91	66	59
1x	16*	5.7	0.7	12.10	310	1.21	88	77
1x	25*	6.9	0.9	13.90	400	0.78	117	100
1x	35*	8.1	0.9	15.30	560	0.554	144	121
1x	50*	9.8	1.0	17.10	770	0.386	175	150
1x	70*	11.6	1.1	18.00	1000	0.272	184	222
1x	95*	13.3	1.1	21.10	1300	0.206	217	269
1x	120*	15.1	1.2	23.30	1650	0.161	259	312
1x	150*	16.8	1.4	25.50	1850	0.129	355	287
1x	185*	18.6	1.6	27.90	2300	0.106	417	323
1x	240*	21.4	1.7	31.10	2800	0.0801	490	379
1x	300*	23.9	1.8	33.70	3300	0.0641	-	429
1x	400*	27.5	2.0	38.40	4300	0.0486	-	541
Two cores								
2x	1.5	1.6	0.7	12.7	241	13.3	22	23
2x	2.5	2.0	0.7	13.7	280	7.98	30	30
2x	4	2.6	0.7	14.9	336	4.95	40	39
2x	6	3.4	0.7	16.1	395	3.3	51	49
2x	10	4.4	0.7	18.2	567	1.91	69	66
2x	16	5.7	0.7	20.4	738	1.21	91	86
2x	25	6.9	0.9	24.0	1107	0.78	119	111
2x	35	8.1	0.9	26.6	1403	0.554	146	136
2x	50	9.8	1.0	30.5	1830	0.386	175	168
2x	70	11.6	1.1	34.3	2571	0.272	221	207
2x	95	13.3	1.1	38.6	3143	0.206	265	215
2x	120	15.1	1.2	43.0	4316	0.161	305	284
2x	150	16.8	1.4	47.5	5547	0.129	-	324
2x	185*	18.6	1.6	53.0	6500	0.106	-	350
2x	240*	21.4	1.7	59.8	9600	0.0801	-	400
Three cores								
3x	1.5	1.6	0.7	13.3	262	13.3	19.5	19
3x	2.5	2.0	0.7	14.3	316	7.98	26	25
3x	4	2.6	0.7	15.6	380	4.95	35	32
3x	6	3.4	0.7	16.9	456	3.3	44	41

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FG16H2M16 0,6/1kV
FG16OH2M16 0,6/1kV

CPR Cca-s1b,d1,a1

Model Product: A62-A63 - 20201123

Cores number	Cross section	Approx conductor diameter	Insulation medium thickness	Maximum external diameter	Approx cable weight	Electric resistance at 20°C	Current carrying capacities	
							30°C in air pipe	20°C In ground
(N°)	(mm²)	(mm)	(mm)	(mm)	(kg/km)	(Ohm/km)		
3x	10	4.4	0.7	19.2	675	1.91	60	55
3x	16	5.7	0.7	21.5	939	1.21	80	72
3x	25	6.9	0.9	25.4	1346	0.78	105	93
3x	35	8.1	0.9	28.3	1744	0.554	128	114
3x	50	9.8	1.0	32.4	2262	0.386	154	141
3x	70	11.6	1.1	36.8	3188	0.272	194	176
3x	95	13.3	1.1	41.2	4309	0.206	233	206
3x	120	15.1	1.2	45.8	5635	0.161	268	238
3x	150	16.8	1.4	50.9	6921	0.129	300	272
3x	185	18.6	1.6	56.6	8079	0.106	340	306
3x	240	21.4	1.7	63.3	10639	0.0801	398	360
3x	300*	23.9	1.8	66.9	12500	0.0641	-	429
Four cores								
4x	1.5	1.6	0.7	14.1	298	13.3	19.5	19
4x	2.5	2.0	0.7	15.3	357	7.98	26	25
4x	4	2.6	0.7	16.7	438	4.95	35	32
4x	6	3.4	0.7	18.4	535	3.3	44	41
4x	10	4.4	0.7	20.8	802	1.91	60	55
4x	16	5.7	0.7	23.4	1164	1.21	80	72
4x	25	6.9	0.9	27.7	1664	0.78	105	93
4x	35*	8.1	0.9	31.0	2100	0.554	130	114
4x	50*	9.8	1.0	34.5	2700	0.386	155	141
4x	70*	11.6	1.1	39.5	3650	0.272	194	174
4x	95*	13.3	1.1	45.0	4950	0.206	235	206
Three cores								
3x	35+1x25	8.1	0.9	30.4	2038	0.554	130	114
3x	50+1x25	9.8	1.0	33.6	2606	0.386	155	141
3x	70+1x35	11.6	1.1	38.2	3540	0.272	194	174
3x	95+1x50	13.3	1.1	43.4	4818	0.206	235	206
3x	120+1x70	15.1	1.2	48.3	6358	0.161	267	238
3x	150+1x95	16.8	1.4	53.9	7852	0.129	-	272
3x	185+1x95	18.6	1.6	58.8	9066	0.106	-	306
3x	240+1x150	21.4	1.7	66.9	12078	0.0801	-	360
3x	300+1x150*	23.9	1.8	76.5	16050	0.0641	-	429
Five cores								

FG16H2M16 0,6/1kV
FG16OH2M16 0,6/1kV

CPR Cca-s1b,d1,a1

Model Product: A62-A63 - 20201123

Cores number	Cross section	Approx conductor diameter	Insulation medium thickness	Maximum external diameter	Approx cable weight	Electric resistance at 20°C	Current carrying capacities	
							30°C in air pipe	20°C In ground
(N°)	(mm²)	(mm)	(mm)	(mm)	(kg/km)	(Ohm/km)		
5G	1.5	1.6	0.7	15.1	351	13.3	19.5	19
5G	2.5	2.0	0.7	16.4	424	7.98	26	25
5G	4	2.6	0.7	18.2	527	4.95	35	32
5G	6	3.4	0.7	19.8	653	3.3	44	41
5G	10	4.4	0.7	22.4	1027	1.91	60	55
5G	16	5.7	0.7	25.4	1415	1.21	80	72
5G	25	6.9	0.9	30.5	2022	0.78	105	93
5G	35*	8.1	0.9	33.9	2700	0.554	130	114
5G	50*	9.8	1.0	38.0	3400	0.386	155	118
5G	70*	11.3	1.1	43.5	4700	0.272	194	174
5G	95*	13.3	1.1	47.9	6250	0.206	235	206
5G	120*	15.10	1.2	51.0	7700	0.161	267	
Multicores								
7x	1.5	1.6	0.7	15.1	399	13.3	19.5	19
7x	2.5	2.0	0.7	17.8	496	7.98	26	25
10x	1.5	1.6	0.7	19.7	503	13.3	19.5	19
10x	2.5	2.0	0.7	21.6	644	7.98	26	25
12x	1.5	1.6	0.7	20.2	574	13.3	19.5	19
12x	2.5	2.0	0.7	22.2	732	7.98	26	25
16x	1.5	1.6	0.7	22.0	690	13.3	19.5	19
16x	2.5	2.0	0.7	24.3	950	7.98	26	25
19x	1.5	1.6	0.7	23.0	813	13.3	19.5	19
19x	2.5	2.0	0.7	25.4	1056	7.98	26	25
24x	1.5	1.6	0.7	26.4	972	13.3	19.5	19
24x	2.5	2.0	0.7	29.3	1281	7.98	26	25

Three, four, five and multicores cables can be produced also with Y/G core. Current carrying capacities for single core cables are calculated on 3 close cables, for two core cables with two charged conductors and for three core cables with three charged conductors. Current Carrying capacities acording to UNEL 35026 with underground laying standard CEI 64-8-61 (ground temp=20°C, depth=0.8m, ground resistivity=1.5 k m/W.).
*No IMQ EFP

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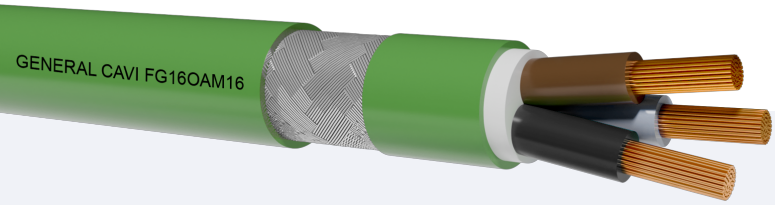
FG16AM16 0,6/1kV FG16OAM16 0,6/1kV

CPR Cca-s1b,d1,a1

Model Product: G31 - 20240924



Class 5 flexible copper conductor.
Elastomeric mixture insulation (G16 quality).
M16+not fibruous and not hygroscopic filler
Armour in galvanized steel wires braid (Unipolar in Aluminum).
LSZH thermoplastic sheath, M16.

STANDARDS

CEI 20-13 CEI 20-38 pqa IEC 60502-1
EN 50575:2014+A1:2016(EN 50399/EN 60332-1-2/EN 60754)

Accordingly to the standards BT 2014/35/UE- 2011/65/EU (RoHS 3)

COMMON FEATURES

For electrical power system in constructions alnd other civil engineering bulginngs,in accordance with the CPR. Power and control use outdoor applications, even wet. For fixing outside in free air, but protected by UV rays. The most important property of this kind of cable is its protection against knocks and rodents. It is especially suitable for signals.Power and control use outdoor applications, even wet AD7.

EMPLOYMENT

Minimum bending radius per D cable diameter (in mm): 14D

Maximum pulling stress: During installation=50 N/mm²
Static stress=15 N/mm²

PACKING

Drums to agree.

CABLES FOR ENERGY AND SIGNALS ISOLATED IN HEPR OF G16 QUALITY, WITH NO HALOGENS AND LOW DEVELOPMENT OF OPAQUE FUMES. FLEXIBLE CABLES WITH BRAIDED THREADS OF STEEL.

Nominal voltage U0: 600V(AC) 1800V(DC)
Nominal voltage U: 1kV(AC)1,8kV(DC)
Test voltage: 4000 V
Maximun voltage Um: 1,2kV(AC)1,8kV(DC)
Maximun operating temperature: 90°C
Maximun short circuit temperature for sections up to 240mm²: +250°C
Maximun short circuit temperature for sections over 240mm²: +220°C
Minimum installation and laying temperature: 0°C
Min. operating temperature (without mechanical shocks): -15°C

CORE COLOURS

Two cores: blue-brown

Three cores: brown-black-gray (or blue-brown-Y/G)

Four cores: blue-brown-black-gray (or Y/G instead blue)

Five cores: Y/G-blue-brown-black-gray (or black instead Y/G)

Multicores: black with numbers.

SHEATH COLOUR

Preferably Green

INK MARKING

GENERALCAVI - Cca-s1b,d1,a1 - year -FG16OAM16-0,61/kV - form x sect. -inner work order - progressive lenght

NOTE

Special features on request:RI (Hydrocarbon Resistant) CEI 20-34 / 0-1 and PQA to OIL & GAS specifications. Preferably Black Sheath

FG16AM16 0,6/1kV FG16OAM16 0,6/1kV

CPR Cca-s1b,d1,a1

Model Product: G31 - 20240924

Cores number	Cross section	Approx conductor diameter	Insulation medium thickness	Maximum external diameter	Approx cable weight	Electric resistance at 20°C	Current carrying capacities	
							30°C in air pipe	20°C In ground
(N°)	(mm²)	(mm)	(mm)	(mm)	(kg/km)	(Ohm/km)		
Single core								
1x	10*	4.4	0.7	9.20	220	1.91	66	59
1x	16*	5.7	0.7	10.50	310	1.21	88	77
1x	25*	6.9	0.9	12.0	400	0.78	117	100
1x	35*	8.1	0.9	14.20	560	0.554	144	121
1x	50*	9.8	1.0	15.90	770	0.386	175	150
1x	70*	11.6	1.1	18.90	1000	0.272	184	222
1x	95*	13.3	1.1	21.00	1300	0.206	217	269
1x	120*	15.1	1.2	23.90	1650	0.161	259	287
1x	150*	16.8	1.4	25.90	1850	0.129	355	312
1x	185*	18.6	1.6	26.88	2300	0.106	417	323
1x	240*	21.4	1.7	30.00	2800	0.0801	490	379
1x	300*	23.9	1.8	35.50	3300	0.0641	-	429
1x	400*	27.5	2.0	39.90	4300	0.0486	-	541
Two cores								
2x	1.5	1.6	0.7	12.7	241	13.3	22	23
2x	2.5	2.0	0.7	13.7	280	7.98	30	30
2x	4	2.6	0.7	14.9	336	4.95	40	39
2x	6	3.4	0.7	16.1	395	3.3	51	49
2x	10	4.4	0.7	18.2	567	1.91	69	66
2x	16	5.7	0.7	20.4	738	1.21	91	86
2x	25	6.9	0.9	24.0	1107	0.78	119	111
2x	35	8.1	0.9	26.6	1403	0.554	146	136
2x	50	9.8	1.0	30.5	1830	0.386	175	168
2x	70	11.6	1.1	34.3	2571	0.272	221	207
2x	95	13.3	1.1	38.6	3143	0.206	265	215
2x	120	15.1	1.2	43.0	4316	0.161	305	284
2x	150	16.8	1.4	47.5	5547	0.129	-	324
2x	185	18.6	1.6	53.0	6500	0.106	-	350
2x	240	21.4	1.7	59.8	9600	0.0801	-	400
Three cores								
3x	1.5	1.6	0.7	13.3	262	13.3	19.5	19
3x	2.5	2.0	0.7	14.3	316	7.98	26	25
3x	4	2.6	0.7	15.6	380	4.95	35	32
3x	6	3.4	0.7	16.9	456	3.3	44	41

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FG16AM16 0,6/1kV FG16OAM16 0,6/1kV

CPR Cca-s1b,d1,a1

Model Product: G31 - 20240924

Cores number	Cross section	Approx conductor diameter	Insulation medium thickness	Maximum external diameter	Approx cable weight	Electric resistance at 20°C	Current carrying capacities	
							30°C in air pipe	20°C In ground
(N°)	(mm²)	(mm)	(mm)	(mm)	(kg/km)	(Ohm/km)		
3x	10	4.4	0.7	19.2	675	1.91	60	55
3x	16	5.7	0.7	21.5	939	1.21	80	72
3x	25	6.9	0.9	25.4	1346	0.78	105	93
3x	35	8.1	0.9	28.3	1744	0.554	128	114
3x	50	9.8	1.0	32.4	2262	0.386	154	141
3x	70	11.6	1.1	36.8	3188	0.272	194	176
3x	95	13.3	1.1	41.2	4309	0.206	233	206
3x	120	15.1	1.2	45.8	5635	0.161	268	238
3x	150	16.8	1.4	50.9	6921	0.129	300	272
3x	185	18.6	1.6	56.6	8079	0.106	340	306
3x	240	21.4	1.7	63.3	10639	0.0801	398	360
3x	300	23.9	1.8	66.9	12500	0.0641	-	429
Four cores								
4x	1.5	1.6	0.7	14.1	298	13.3	19.5	19
4x	2.5	2.0	0.7	15.3	357	7.98	26	25
4x	4	2.6	0.7	16.7	438	4.95	35	32
4x	6	3.4	0.7	18.4	535	3.3	44	41
4x	10	4.4	0.7	20.8	802	1.91	60	55
4x	16	5.7	0.7	23.4	1164	1.21	80	72
4x	25	6.9	0.9	27.7	1664	0.78	105	93
4x	35	8.1	0.9	31.0	2100	0.554	130	114
4x	50	9.8	1.0	34.5	2700	0.386	155	141
4x	70	11.6	1.1	39.5	3650	0.272	194	174
4x	95	13.3	1.1	45.0	4950	0.206	235	206
3x35+1x25		8.1	0.9	30.4	2038	0.554	130	114
3x50+1x25		9.8	1.0	33.6	2606	0.386	155	141
3x70+1x35		11.6	1.1	38.2	3540	0.272	194	174
3x95+1x50		13.3	1.1	43.4	4818	0.206	235	206
3x120+1x70		15.1	1.2	48.3	6358	0.161	267	238
3x150+1x95		16.8	1.4	53.9	7852	0.129	-	272
3x185+1x95		18.6	1.6	58.8	9066	0.106	-	306
3x240+1x150		21.4	1.7	66.9	12078	0.0801	-	360
3x300+1x150		23.9	1.8	76.5	16050	0.0641	-	429
Five cores								
5G	1.5	1.6	0.7	15.1	351	13.3	19.5	19

FG16AM16 0,6/1kV FG16OAM16 0,6/1kV

CPR Cca-s1b,d1,a1

Model Product: G31 - 20240924

Cores number	Cross section	Approx conductor diameter	Insulation medium thickness	Maximum external diameter	Approx cable weight	Electric resistance at 20°C	Current carrying capacities	
							30°C in air pipe	20°C In ground
(N°)	(mm²)	(mm)	(mm)	(mm)	(kg/km)	(Ohm/km)		
5G	2.5	2.0	0.7	16.4	424	7.98	26	25
5G	4	2.6	0.7	18.2	527	4.95	35	32
5G	6	3.4	0.7	19.8	653	3.3	44	41
5G	10	4.4	0.7	22.4	1027	1.91	60	55
5G	16	5.7	0.7	25.4	1415	1.21	80	72
5G	25	6.9	0.9	30.5	2022	0.78	105	93
5G	35	8.1	0.9	33.9	2700	0.554	130	114
5G	50	9.8	1.0	38.0	3400	0.386	155	118
5G	70	11.3	1.1	43.5	4700	0.272	194	174
5G	95	13.3	1.1	47.9	6250	0.206	235	206
5G	120	15.10	1.2	51.0	7700	0.161	-	267
Multicores								
7x	1.5	1.6	0.7	15.1	399	13.3	19.5	19
7x	2.5	2.0	0.7	17.8	496	7.98	26	25
10x	1.5	1.6	0.7	19.7	503	13.3	19.5	19
10x	2.5	2.0	0.7	21.6	644	7.98	26	25
12x	1.5	1.6	0.7	20.2	574	13.3	19.5	19
12x	2.5	2.0	0.7	22.2	732	7.98	26	25
16x	1.5	1.6	0.7	22.0	690	13.3	19.5	19
16x	2.5	2.0	0.7	24.3	950	7.98	26	25
19x	1.5	1.6	0.7	23.0	813	13.3	19.5	19
19x	2.5	2.0	0.7	25.4	1056	7.98	26	25
24x	1.5	1.6	0.7	26.4	972	13.3	19.5	19
24x	2.5	2.0	0.7	29.3	1281	7.98	26	25

Three, four, five and multicores cables can be produced also with Y/G core. Current carrying capacities for single core cables are calculated on 3 close cables, for two core cables with two charged conductors and for three core cables with three charged conductors.Current Carrying capacities acording to UNEL 35026 with underground laying standard CEI 64-8-61 (ground temp=20°C, depth=0.8m, ground resistivity=1.5 k m/W.).

* Braided weave of aluminum wires

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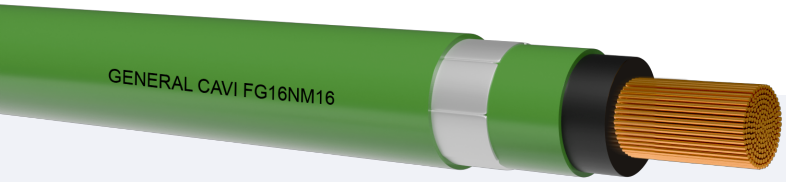
FG16NM16 0,6/1kV

CPR Cca-s1b,d1,a1

Model Product: A66 - 20201123



Class 5 flexible copper conductor.
Elastomeric mixture insulation (G16 quality).
M16+not fibruous and not hygroscopic filler
Alluminium no-magnettic armour tape.
LSZH thermoplastic sheath, M16.

STANDARDS

CEI 20-13 pqa IEC 60502-1
EN 50575:2014+A1:2016(EN 50399/EN 60332-1-2/EN 60754)

Accordingly to the standards BT 2014/35/UE- 2011/65/EU (RoHS 3)

CABLES FOR ENERGY AND SIGNALS ISOLATED IN HEPR OF G16 QUALITY, WITH NO HALOGENS AND LOW DEVELOPMENT OF OPAQUE FUMES. FLEXIBLE CABLES WITH ALUMINUM TAPES ARMOR.

Nominal voltage U0: 600V(AC) 1800V(DC)
Nominal voltage U: 1kV(AC)1,8kV(DC)
Test voltage: 4000 V
Maximun voltage Um: 1,2kV(AC)1,8kV(DC)
Maximun operating temperature: 90°C
Maximun short circuit temperature for sections up to 240mm²: +250°C
Maximun short circuit temperature for sections over 240mm²: +220°C
Minimum installation and laying temperature: 0°C
Min. operating temperature (without mechanical shocks): -15°C

COMMON FEATURES

For electrical power system in constructions alnd other civil engineering bulginngs,in order to limit fire and smoke production and spread,in accordance with the CPR. Power and control use outdoor applications, even wet. For fixing outside in free air, but protected by UV rays. The most important property of this kind of cable is its protection against knocks and rodents. It is especially suitable for signals.Power and control use outdoor applications, even wet AD7.

EMPLOYMENT

Minimum bending radius per D cable diameter (in mm): 14D

Maximum pulling stress: During installation=50 N/mm²
Static stress=15 N/mm²

PACKING

Drums to agree.

CORE COLOURS

Single core: black

SHEATH COLOUR

Preferably Green

INK MARKING

GENERALCAVI - Cca-s1b,d1,a1 - year -FG16NM16-0,61/kV - form x sect. -inner work order - progressive lenght

NOTE

Special features on request:RI (Hydrocarbon Resistant) CEI 20-34 / 0-1 and PQA to OIL & GAS specifications. Preferably Black Sheath

FG16NM16 0,6/1kV

CPR Cca-s1b,d1,a1

Model Product: A66 - 20201123

Cores number	Cross section	Approx conductor diameter	Insulation medium thickness	Maximum external diameter	Approx cable weight	Electric resistance at 20°C	Current carrying capacities	
							30°C in air pipe	20°C In ground
(N°)	(mm²)	(mm)	(mm)	(mm)	(kg/km)	(Ohm/km)		
Single core								
1x	10	4.4	0.7	9.20	220	1.91	66	59
1x	16	5.7	0.7	10.50	310	1.21	88	77
1x	25	6.9	0.9	12.0	400	0.78	117	100
1x	35	8.1	0.9	14.20	560	0.554	144	121
1x	50	9.8	1.0	15.90	770	0.386	175	150
1x	70	11.6	1.1	18.90	1000	0.272	184	222
1x	95	13.3	1.1	21.00	1300	0.206	217	269
1x	120	15.1	1.2	23.90	1650	0.161	259	312
1x	150	16.8	1.4	25.90	1850	0.129	355	287
1x	185	18.6	1.6	26.88	2300	0.106	417	323
1x	240	21.4	1.7	30.00	2800	0.0801	490	379
1x	300	23.9	1.8	35.50	3300	0.0641	-	429
1x	400	27.5	2.0	39.90	4300	0.0486	-	541

Current carrying capacities for single core cables are calculated on 3 close cables, for two core cables with two charged conductors and for three core cables with three charged conductors. Current Carrying capacities acording to UNEL 35026 with underground laying standard CEI 64-8-61 (ground temp=20°C, depth=0.8m, ground resistivity=1.5 k m/W.).

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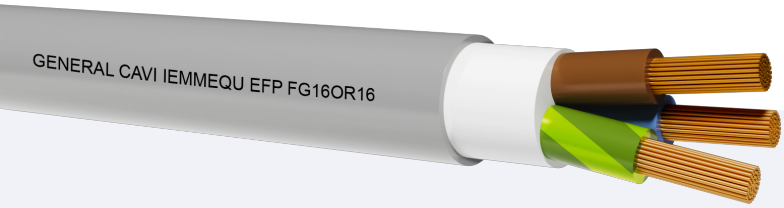
Catalogo prodotti da costruzione CPR UE305/2011

FG16R16 / FG16OR16 0,6/1 kV

CPR Cca-s3,d1,a3

Model Product: P10-P11 - 20250225



Flexible or rigid power control cable for fixed installations not propagating fire and width low corrosive gas emission. G16 quality HEPR insulated.CPR UE 305/11

Class 5 flexible copper conductor.
Elastomeric mixture insulation (G16 quality).
Not fibrous and not hygroscopic filler
Outer Sheath PVC R16 type.

STANDARDS

CEI 20-13 IEC 60502-1 CEI UNEL 35318-35322-35016 EN 50575:2014+A1:2016(EN 50399/EN 60332-1-2/EN 60754-2)

Accordingly to the standards BT 2014/35/UE- 2011/65/EU (RoHS 2)CPR UE 305/11

Nominal voltage U0: 600V(AC) 1800V(DC)
Nominal voltage U: 1000V(AC) 1800V(DC)
Test voltage: 4000 V
Maximun voltage Um: 1200V(AC) 1800V(DC)
Maximun operating temperature: 90
Maximun short circuit temperature for sections up to 240mm²: 250
Maximun short circuit temperature for sections over 240mm²: 220
Minimum installation and laying temperature: 0°C
Min. operating temperature (without mechanical shocks): -15°C

COMMON FEATURES

For electrical power system in constructions alnd other civil engineering bulginngs,in order to limit fire and smoke production and spread,in accordance with the CPR. Power and control use outdoor and indoor applications, even wet. Suitable for fixed installations at open air, in tube or canals, masonry, metals structures, overhead wire and for direct or indirect underground wiring.Power and control use outdoor applications, even wet AD7.Special features good resistance to industrial oils and greases.
Additional Special Features:Good behavior at low temperatures.
UV resistant according to EN 50289-4-17 method A (720h)

EMPLOYMENT

Minimum bending radius per D cable diameter (in mm):
Power cables,= 4 D /Control cables = 6 D

Maximum pulling stress: 50 N/mm2

PACKING

100m rings in thermoplastic film up to section 5x6mm². Drums to agree.

CORE COLOURS

Single core: black

Two cores: blue-brown

Three cores: brown-black-gray (or blue-brown-Y/G)

Four cores: blue-brown-black-gray (or Y/G instead blue)

Five cores: Y/G-blue-brown-black-gray (or black instead Y/G)

Multicores: black with numbers

SHEATH COLOUR

Light grey RAL 7035

INK MARKING

GENERALCAVI - Cca-s3,d1,a3 - IEMMEQU EFP - year - FG16(O)R16-0,61/kV - form x sect. - inner work order - progressive lenght

FG16R16 / FG16OR16 0,6/1 kV

CPR Cca-s3,d1,a3

Model Product: P10-P11 - 20250225

FG16(O)R16 0,6/1kV

Cores number	Cross section	Approx conductor diameter	Insulation medium thickness	Maximum outer diameter	Approx cable weight	Electric resistance at 20°C	Current carrying capacities	
							30° In pipe	20°C In ground
(N°)	(mm²)	(mm)	(mm)	(mm)	(kg/km)	(Ohm/km)	(A)	(A)
Single core								
1x	4	2.6	0.7	9.30	82	4.95	37	35
1x	6	3.4	0.7	9.90	101	3.3	48	44
1x	10	4.4	0.7	10.9	152	1.91	66	59
1x	16	5.7	0.7	11.4	211	1.21	88	77
1x	25	6.9	0.9	13.2	301	0.78	117	100
1x	35	8.1	0.9	14.6	396	0.554	144	121
1x	50	9.8	1	16.4	556	0.386	175	150
1x	70	11.6	1.1	17.3	761	0.272	222	184
1x	95	13.3	1.1	20.4	991	0.206	269	217
1x	120	15.1	1.2	22.4	1219	0.161	312	259
1x	150	16.8	1.4	24.8	1517	0.129	355	287
1x	185	18.6	1.6	27.2	1821	0.106	417	323
1x	240	21.4	1.7	30.4	2366	0.0801	490	379
1x	300	23.9	1.8	33.0	2947	0.0641	-	429
1x	400	27.5	2	37.7	3870	0.0486	-	541
1x	500*	28.5	2.1	45.0	4790	0.0384	-	599
1x	630*	32.8	2.3	51.1	6470	0.0287	-	683
Two cores								
2x	1.5	1.6	0.7	12.0	125	13.3	22	23
2x	2.5	2	0.7	13.0	151	7.98	30	30
2x	4	2.6	0.7	14.2	207	4.95	40	39
2x	6	3.4	0.7	15.4	256	3.3	51	49
2x	10	4.4	0.7	17.3	395	1.91	66	69
2x	16	5.7	0.7	19.4	576	1.21	91	86
2x	25	6.9	0.9	23.0	806	0.78	119	111
2x	35	8.1	0.9	25.7	1052	0.554	146	136
2x	50	9.8	1.0	29.3	1465	0.386	175	168
2x	70	11.6	1.1	33.1	2044	0.272	221	207
2x	95	13.3	1.1	37.4	2917	0.206	265	245
2x	120	15.1	1.2	41.5	3678	0.161	305	284
2x	150	16.8	1.4	46.1	4028	0.129	-	324
2x	185*	18.6	1.6	48.8	4500	0.106	-	-
2x	240*	21.4	1.7	57,7	5852	0.0801	-	-
Three cores								

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FG16R16 / FG16OR16 0,6/1 kV

CPR Cca-s3,d1,a3

Model Product: P10-P11 - 20250225

Cores number	Cross section	Approx conductor diameter	Insulation medium thickness	Maximum outer diameter	Approx cable weight	Electric resistance at 20°C	Current carrying capacities	
							30° In pipe	20°C In ground
(N°)	(mm²)	(mm)	(mm)	(mm)	(kg/km)	(Ohm/km)	(A)	(A)
3x	1.5	1.6	0.7	12.5	139	13.3	19.5	19
3x	2.5	2.0	0.7	13.6	185	7.98	26	25
3x	4	2.6	0.7	14.9	246	4.95	35	32
3x	6	3.4	0.7	16.2	313	3.3	44	41
3x	10	4.4	0.7	18.2	503	1.91	60	55
3x	16	5.7	0.7	20.6	609	1.21	80	72
3x	25	6.9	0.9	24.5	991	0.78	105	93
3x	35	8.1	0.9	27.3	1370	0.554	128	114
3x	50	9.8	1.0	31.2	1941	0.386	154	141
3x	70	11.6	1.1	35.6	2680	0.272	194	174
3x	95	13.3	1.1	40.4	3487	0.206	233	206
3x	120	15.1	1.2	44.4	4406	0.161	268	238
3x	150	16.8	1.4	49.5	5440	0.129	300	272
3x	185	18.6	1.6	55.2	6750	0.106	340	306
3x	240	21.4	1.7	61.9	8778	0.0801	398	360
3x	300	22.5	1.8	68.0	11000	0.0641	-	429
Four cores								
4x	1.5	1.6	0.7	13.4	171	13.3	19.5	19
4x	2.5	2.0	0.7	14.6	222	7.98	26	25
4x	4	2.6	0.7	16.0	297	4.95	35	32
4x	6	3.4	0.7	17.5	392	3.30	44	41
4x	10	4.4	0.7	19.8	611	1.91	60	55
4x	16	5.7	0.7	22.4	886	1.21	80	72
4x	25	6.9	0.9	26.8	1255	0.78	105	93
4x	35*	8.1	0.9	30.5	1826	0.554	130	114
4x	50*	9.8	1.0	33.5	2588	0.386	155	141
4x	70*	11.6	1.1	38.5	3573	0.272	194	174
4x	95*	13.3	1.1	43.5	4649	0.206	235	206
4x	120*	15.1	1.2	48.3	5875	0.161	267	238
4x	150*	16.8	1.4	54.0	7255	0.129	-	272
4x	185*	18.6	1.6	58.8	9000	0.106	-	306
4x	240*	21.4	1.7	67.0	11700	0.0801	-	360
4x	3x35+1x25	8.1	0.9	29.2	1611	0.554	130	114
4x	3x50+1x25	9.8	1.0	32.4	2142	0.386	155	141
4x	3x70+1x35	11.6	1.1	37.0	3037	0.272	194	174
4x	3x95+1x50	13.3	1.1	42.0	4047	0.206	235	206

FG16R16 / FG16OR16 0,6/1 kV

CPR Cca-s3,d1,a3

Model Product: P10-P11 - 20250225

Cores number	Cross section	Approx conductor diameter	Insulation medium thickness	Maximum outer diameter	Approx cable weight	Electric resistance at 20°C	Current carrying capacities	
							30° In pipe	20°C In ground
(N°)	(mm²)	(mm)	(mm)	(mm)	(kg/km)	(Ohm/km)	(A)	(A)
4x	3x120+1x70	15.1	1.2	46.9	5327	0.161	267	238
4x	3x150+1x95	16.8	1.4	52.5	6635	0.129	-	272
4x	3x185+1x95	18.6	1.6	57.3	7833	0.106	-	306
4x	3x240+1x150	21.4	1.7	65.5	10476	0.0801	-	360
4x	3x300+1x150	22.5	1.8	70.8	12000	0.0641	-	429
Five cores								
5G	1.5	1.6	0.7	14.4	204	13.3	14	19
5G	2.5	2.0	0.7	15.6	266	7.98	26	21
5G	4	2.6	0.7	17.3	361	4.95	35	32
5G	6	3.4	0.7	18.9	471	3.30	44	41
5G	10	4.4	0.7	21.5	756	1.91	60	55
5G	16	5.7	0.7	24.4	1119	1.21	80	72
5G	25	6.9	0.9	29.3	1597	0.78	105	93
5G	35	8.1	0.9	32.8	2140	0.554	130	114
5G	50	9.8	1.0	38.2	3004	0.386	155	141
5G	70*	11.6	1.1	44.6	4466	0.272	194	174
5G	95*	13.3	1.1	49.3	5811	0.206	235	206
5G	120*	15.5	1.2	55.0	7343	0.161	267	238
Multicores								
7x	1.5	1.6	0.7	15.4	247	13.3	11.5	16
7x	2.5	2.0	0.7	16.8	343	7.98	15.5	21
10x	1.5	1.6	0.7	18.7	353	13.3	11.5	16
10x	2.5	2.0	0.7	20.6	492	7.98	15.5	24
12x	1.5	1.6	0.7	19.3	380	13.3	9.5	12.5
12x	2.5	2.0	0.7	21.3	537	7.98	12.0	25
16x	1.5	1.6	0.7	21.1	549	13.3	9.5	19
16x	2.5	2.0	0.7	23.3	848	7.98	12.0	25
19x	1.5	1.6	0.7	22.1	612	13.3	8.0	19
19x	2.5	2.0	0.7	24.5	1049	7.98	10.5	25
24x	1.5	1.6	0.7	25.4	733	13.3	8.0	19
24x	2.5	2.0	0.7	28.3	1140	1.98	10.5	25

Three, four, five and multicores cables can be produced also with Y/G core. Current carrying capacities for single core cables are calculated on 3 close cables, for two core cables with two charged conductors and for three core cables with three charged conductors.
Current Carrying capacities at 20°C acording to UNEL 35026 with underground laying standard CEI 64-8-61 (ground temp=20°C, depth=0.8m, ground resistivity=1.5 k m/W.).
The sections marked with (*) appear in the UNEL tables, not subject to the IMQ EFP mark, but comply with EU Regulation 305/11 (CPR)

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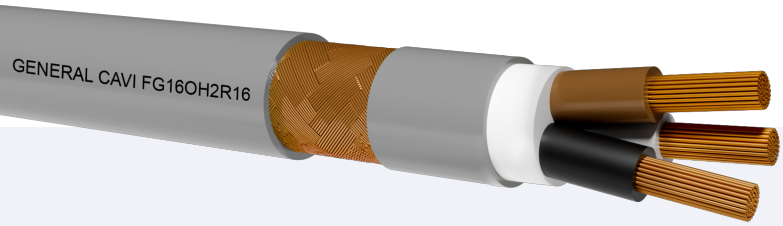
Catalogo prodotti da costruzione CPR UE305/2011

FG16H2R16 0,6/1kV
FG16OH2R16 0,6/1kV

CPR Cca-s3,d1,a3

Model Product: P03 - P04 - 20240924



FLEXIBLE POWER AND CONTROL CABLE WITH COPPER WIRES BRAID SCREEN AND INSULATION IN G16 QUALITY HEPR

Class 5 flexible copper conductor.
Elastomeric mixture insulation (G16 quality).
PVC+not fibruous and not hygroscopic filler
Shield made up of a copper wires braid SH.
Outer Sheath PVC R16 type.

STANDARDS

CEI 20-13 IEC 60502-1 CEI UNEL 35318-35322-35016 EN 50575:2014+A1:2016(EN 50399/EN 60332-1-2/EN 60754-2)

Accordingly to the standards BT 2014/35/UE- 2011/65/EU (RoHS 3)

Nominal voltage U0: 600V(AC) 1800V(DC)
Nominal voltage U: 1kV(AC)1,8kV(DC)
Test voltage: 4000 V
Maximun voltage Um: 1,2kV(AC)1,8kV(DC)
Maximun operating temperature: +90°C
Maximun short circuit temperature: +250°C
Minimum installation and laying temperature: 0°C
Min. operating temperature (without mechanical shocks): -15°C

COMMON FEATURES

For electrical power system in constructions alnd other civil engineering bulginngs,in order to limit fire and smoke production and spread,in accordance with the CPR. Power and control use outdoor applications, even wet. For fixing outside in free air. The most important property of this kind of cable is its copper screen protection against electromagnetic interferences. It is especially suitable for signals.Power and control use outdoor applications, even wet AD7.Special features good resistance to industrial oils and greases. Good behavior at low temperatures. UV resistant.

EMPLOYMENT

Minimum bending radius per D cable diameter (in mm): 8D

Maximum pulling stress: During installation 50 N/mmq
Static stress 15 N/mmq

PACKING

Drums to agree.

CORE COLOURS

Two cores: blue-brown;

Three cores: brown-black-gray (or blue-brown-Y/G);

Four cores: blue-brown-black-gray (Y/G no blue);

Five cores: Y/G-blue-brown-black-gray (black no Y/G);

Multicores: black with numbers.

SHEATH COLOUR

Grey

INK MARKING

GENERAL CAVI -Cca-s3,d1,a3 - IEMMEQU EFP -year - FG16OH2R16-0,61/kV - form x sect. -inner work order - progressive lenght

FG16H2R16 0,6/1kV
FG16OH2R16 0,6/1kV

CPR Cca-s3,d1,a3

Model Product: P03 - P04 - 20240924

Conductor Number	Cross section	Approx conductor diameter	Insulation medium thickness	Maximum external diameter	Approx cable weight	Electric resistance at 20°C	Current carrying capacities	
							30° In air or pipe	20°C In ground
(N°)	(mm²)	(mm)	(mm)	(mm)	(kg/km)	(Ohm/km)	(A)	(A)
Single core								
1x	10*	4.4	0.7	11.60	220	1.91	66	59
1x	16*	5.7	0.7	12.10	310	1.21	88	77
1x	25*	6.9	0.9	13.90	400	0.78	117	100
1x	35*	8.1	0.9	15.30	560	0.554	144	121
1x	50*	9.8	1	17.10	770	0.386	175	150
1x	70*	11.6	1.1	18.00	1000	0.272	184	222
1x	95*	13.3	1.1	21.10	1300	0.206	217	269
1x	120*	15.1	1.2	23.30	1650	0.161	259	287
1x	150*	16.8	1.4	25.50	1850	0.129	355	312
1x	185*	18.6	1.6	27.90	2300	0.106	417	323
1x	240*	21.4	1.7	31.10	2800	0.0801	490	379
1x	300*	23.9	1.8	33.70	3300	0.0641	-	429
1x	400*	27.5	2.0	38.40	4300	0.0486	-	541
Two cores								
2x	1.5	1.6	0.7	12.7	241	13.3	22	23
2x	2.5	2.0	0.7	13.7	280	7.98	30	30
2x	4	2.6	0.7	14.9	336	4.95	40	39
2x	6	3.4	0.7	16.1	395	3.3	51	49
2x	10	4.4	0.7	18.2	567	1.91	69	66
2x	16	5.7	0.7	20.4	738	1.21	91	86
2x	25	6.9	0.9	24.0	1107	0.78	119	111
2x	35	8.1	0.9	26.6	1403	0.554	146	136
2x	50	9.8	1.0	30.5	1830	0.386	175	168
2x	70	11.6	1.1	34.3	2571	0.272	221	207
2x	95	13.3	1.1	38.6	3143	0.206	265	215
2x	120	15.1	1.2	43.0	4316	0.161	305	284
2x	150	16.8	1.4	47.5	5547	0.129	-	324
2x	185*	18.6	1.6	53.0	6500	0.106	-	350
2x	240*	21.4	1.7	59.8	9600	0.0801	-	400
Three cores								
3x	1.5	1.6	0.7	13.3	262	13.3	19.5	19
3x	2.5	2.0	0.7	14.3	316	7.98	26	25
3x	4	2.6	0.7	15.6	380	4.95	35	32
3x	6	3.4	0.7	16.9	456	3.3	44	41

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FG16H2R16 0,6/1kV
FG16OH2R16 0,6/1kV

CPR Cca-s3,d1,a3

Model Product: P03 - P04 - 20240924

Conductor Number	Cross section	Approx conductor diameter	Insulation medium thickness	Maximum external diameter	Approx cable weight	Electric resistance at 20°C	Current carrying capacities	
							30° In air or pipe	20°C In ground
(N°)	(mm²)	(mm)	(mm)	(mm)	(kg/km)	(Ohm/km)	(A)	(A)
3x	10	4.4	0.7	19.2	675	1.91	60	55
3x	16	5.7	0.7	21.5	939	1.21	80	72
3x	25	6.9	0.9	25.4	1346	0.78	105	93
3x	35	8.1	0.9	28.3	1744	0.554	128	114
3x	50	9.8	1.0	32.4	2262	0.386	154	141
3x	70	11.6	1.1	36.8	3188	0.272	194	176
3x	95	13.3	1.1	41.2	4309	0.206	235	206
3x	120	15.1	1.2	45.8	5635	0.161	268	238
3x	150	16.8	1.4	50.9	6921	0.129	300	272
3x	185	18.6	1.6	56.6	8079	0.106	340	306
3x	240	21.4	1.7	63.3	10639	0.0801	398	360
3x	300*	23.9	1.8	66.9	12500	0.0641	-	429
Four cores								
4x	1.5	1.6	0.7	14.1	298	13.3	19.5	19
4x	2.5	2.0	0.7	15.3	357	7.98	26	25
4x	4	2.6	0.7	16.7	438	4.95	35	32
4x	6	3.4	0.7	18.4	535	3.3	44	41
4x	10	4.4	0.7	20.8	802	1.91	60	55
4x	16	5.7	0.7	23.4	1164	1.21	80	72
4x	25	6.9	0.9	27.7	1664	0.78	105	93
4x	35*	8.1	0.9	31.0	2100	0.554	130	114
4x	50*	9.8	1.0	34.5	2700	0.386	155	141
4x	70*	11.6	1.1	39.5	3650	0.272	194	174
4x	95*	13.3	1.1	45.0	4950	0.206	235	206
Three cores								
3x	35+1x25	8.1	0.9	30.4	2038	0.554	130	114
3x	50+1x25	9.8	1.0	33.6	2606	0.386	155	141
3x	70+1x35	11.6	1.1	38.2	3540	0.272	194	174
3x	95+1x50	13.3	1.1	43.4	4818	0.206	235	206
3x	120+1x70	15.1	1.2	48.3	6358	0.161	267	238
3x	150+1x95	16.8	1.4	53.9	7852	0.129	-	272
3x	185+1x95	18.6	1.6	58.8	9066	0.106	-	306
3x	240+1x150	21.4	1.7	66.9	12078	0.0801	-	360
3x	300+1x150*	23.9	1.8	76.5	16050	0.0641	-	429
Five cores								

FG16H2R16 0,6/1kV
FG16OH2R16 0,6/1kV

CPR Cca-s3,d1,a3

Model Product: P03 - P04 - 20240924

Conductor Number	Cross section	Approx conductor diameter	Insulation medium thickness	Maximum external diameter	Approx cable weight	Electric resistance at 20°C	Current carrying capacities	
							30° In air or pipe	20°C In ground
(N°)	(mm²)	(mm)	(mm)	(mm)	(kg/km)	(Ohm/km)	(A)	(A)
5x	1.5	1.6	0.7	15.1	351	13.3	19,5	19
5x	2.5	2.0	0.7	16.4	424	7.98	26	25
5x	4	2.6	0.7	18.2	527	4.95	35	32
5x	6	3.4	0.7	19.8	653	3.3	44	41
5x	10	4.4	0.7	22.4	1027	1.91	60	55
5x	16	5.7	0.7	25.4	1415	1.21	80	72
5x	25	6.9	0.9	30.5	2022	0.78	105	93
5x	35*	8.1	0.9	33.9	2700	0.554	130	114
5x	50*	9.8	1.0	38.0	3400	0.386	155	141
5x	70*	11.6	1.1	43.5	4700	0.272	194	174
5x	95*	13.3	1.1	47.9	6250	0.206	235	206
5x	120*	15.1	1.2	51.0	7700	0.161	267	238
Multicores								
7x	1.5	0.6	0.7	15.1	399	13.3	11.5	18.5
7x	2.5	2.0	0.7	17.8	496	7.98	15.5	24
10x	1.5	1.6	0.7	19.7	503	13.3	11.5	18.5
10x	2.5	2.0	0.7	21.6	644	7.98	15.5	24
12x	1.5	1.6	0.7	20.2	574	13.3	9.5	14.5
12x	2.5	2.0	0.7	22.2	732	7.98	12	20
16x	1.5	1.6	0.7	22.0	690	13.3	9.5	14.5
16x	2.5	2.0	0.7	24.3	950	7.98	12	20
19x	1.5	1.6	0.7	23.0	813	13.3	8	13
19x	2.5	2.0	0.7	25.4	1056	7.98	10.5	16
24x	1.5	1.6	0.7	26.4	972	13.3	8	13
24x	2.5	2.0	0.7	29.3	1281	7.98	10.5	16
36x	1.5*	1.8	0.7	30.4	1100	13.3	8	13
36x	2.5*	2.2	0.7	35.9	1500	7.98	10.5	16
48x	1.5*	1.8	0.7	34.5	1450	13.3	8	13
48x	2.5*	2.2	0.7	41.0	2000	7.98	10.5	16

Three, four, five and multicores cables can be produced also with Y/G core. Current carrying capacities for single core cables are calculated on 3 close cables, for two core cables with two charged conductors and for three core cables with three charged conductors. Current Carrying capacities acording to UNEL 35026 with underground laying standard CEI 64-8-61 (ground temp=20°C, depth=0.8m, ground resistivity=1.5 k m/W.).
*No IMQ EFP

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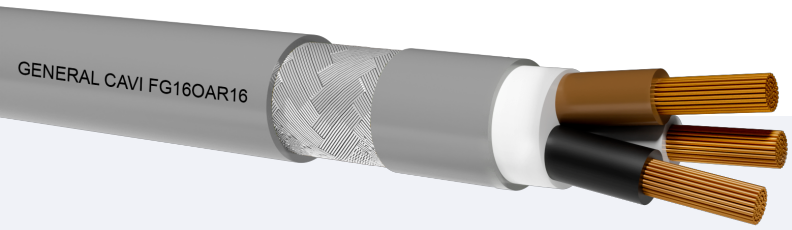
FG16AR16 0,6/1kV FG16OAR16 0,6/1kV

CPR Cca-s3,d1,a3

Model Product: 306-309 - 20220308



FLEXIBLE POWER AND CONTROL CABLE WITH ARMOUR IN GALVANIZED STEEL
WIRES BRAID AND INSULATION IN G16 QUALITY HEPR.
NOT PROPAGATING FIRE AND WITH LOW EMISSION OF CORROSIVE GASES

Class 5 flexible copper conductor.
Elastomeric mixture insulation (G16 quality).
PVC+not fibruous and not hygroscopic filler
Armour in galvanized steel wires braid (Unipolar in Aluminum).
Outer Sheath PVC R16 type.

STANDARDS

CEI 20-13 IEC 60502-1
EN 50575:2014+A1:2016(EN 50399/EN 60332-1-2/EN 60754-2)

Accordingly to the standards BT 2014/35/UE- RoHS: 2002/95/EC

Nominal voltage U0: 600V(AC) 1800V(DC)
Nominal voltage U: 1kV(AC)1,8kV(DC)
Test voltage: 4000 V
Maximun voltage Um: 1,2kV(AC)1,8kV(DC)
Maximun operating temperature: +90°C
Maximun short circuit temperature: +250°C
Minimum installation and laying temperature: 0°C
Min. operating temperature (without mechanical shocks): -15°C

COMMON FEATURES

For electrical power system in constructions alnd other civil engineering bulginngs,in order to limit fire and smoke production and spread,in accordance with the CPR. Power and control use outdoor applications, even wet. For fixing outside in free air, but protected . The most important property of this kind of cable is its protection against knocks and rodents. It is especially suitable for signals.Power and control use outdoor applications, even wet AD7.
Special features:
good resistance to industrial oils and greases. Good behavior at low temperatures. UV resistant.

EMPLOYMENT

Minimum bending radius per D cable diameter (in mm): 14D

Maximum pulling stress: During installation 50 N/mmq
Static stress 15 N/mmq

PACKING

Drums to agree.

CORE COLOURS

Two cores: blue-brown

Three cores: brown-black-gray (or blue-brown-Y/G);

Four cores: blue-brown-black-gray (or Y/G instead blue);

Five cores: Y/G-blue-brown-black-gray (or black instead Y/G);

Multicores: black with numbers.

SHEATH COLOUR

Light grey RAL 7035.

INK MARKING

GENERAL CAVI - Cca-s3,d1,a3 - year -FG16OAR16 0,61/kV - form x sect.-inner work order - progressive lenght

FG16AR16 0,6/1kV FG16OAR16 0,6/1kV

CPR Cca-s3,d1,a3

Model Product: 306-309 - 20220308

Cores number	Cross section	Approx conductor diameter	Insulation medium thickness	Maximum external diameter	Approx cable weight	Electric resistance at 20°C	Current carrying capacities	
							30°C in air pipe	20°C In ground
(N°)	(mm²)	(mm)	(mm)	(mm)	(kg/km)	(Ohm/km)	(A)	(A)
Single core								
1x	10*	4.4	0.7	9.20	220	1.91	66	59
1x	16*	5.7	0.7	10.5	310	1.21	88	77
1x	25*	6.9	0.9	12.0	400	0.78	117	100
1x	35*	8.1	0.9	14.2	560	0.554	144	121
1x	50*	9.8	1.0	15.9	770	0.386	175	150
1x	70*	11.6	1.1	18.9	1000	0.272	222	184
1x	95*	13.3	1.1	21.0	1300	0.206	269	217
1x	120*	15.1	1.2	23.9	1650	0.161	312	251
1x	150*	16.8	1.4	25.9	1850	0.129	355	287
1x	185*	18.6	1.6	26.8	2300	0.106	417	323
1x	240*	21.4	1.7	30.0	2800	0.0801	490	379
1x	300*	23.9	1.8	35.5	3300	0.0641	-	429
1x	400*	27.5	2.0	39.9	4300	0.0486	-	541
Two cores								
2x	1.5	1.6	0.7	12.7	255	13.3	22	23
2x	2.5	2.0	0.7	13.7	299	7.98	30	30
2x	4	2.6	0.7	14.9	356	4.95	40	39
2x	6	3.4	0.7	16.1	421	3.30	51	49
2x	10	4.4	0.7	18.2	602	1.91	69	66
2x	16	5.7	0.7	20.4	780	1.21	91	86
2x	25	6.9	0.9	24.0	1166	0.78	119	111
2x	35	8.1	0.9	26.6	1449	0.554	146	136
2x	50	9.8	1.0	30.5	1898	0.386	175	168
2x	70	11.6	1.1	34.3	2732	0.272	221	207
2x	95	13.3	1.1	38.6	3315	0.206	265	215
2x	120	15.1	1.2	43.0	4521	0.161	305	284
2x	150	16.8	1.4	47.5	5778	0.129	-	324
2x	185	18.6	1.6	53.0	6500	0.106	-	350
2x	240	21.4	1.7	59.8	9600	0.0801	-	400
Three cores								
3x	1.5	1.6	0.7	13.3	279	13.3	19.5	19
3x	2.5	2.0	0.7	14.3	334	7.98	26	25
3x	4	2.6	0.7	15.6	404	4.95	35	32
3x	6	3.4	0.7	16.9	487	3.3	44	41

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FG16AR16 0,6/1kV FG16OAR16 0,6/1kV

CPR Cca-s3,d1,a3

Model Product: 306-309 - 20220308

Cores number	Cross section	Approx conductor diameter	Insulation medium thickness	Maximum external diameter	Approx cable weight	Electric resistance at 20°C	Current carrying capacities	
							30°C in air pipe	20°C In ground
(N°)	(mm²)	(mm)	(mm)	(mm)	(kg/km)	(Ohm/km)	(A)	(A)
3x	10	4.4	0.7	19.2	711	1.91	60	55
3x	16	5.7	0.7	21.5	987	1.21	80	72
3x	25	6.9	0.9	25.4	1409	0.78	105	93
3x	35	8.1	0.9	28.3	1809	0.554	128	114
3x	50	9.8	1.0	32.4	2347	0.386	154	141
3x	70	11.6	1.1	36.8	3366	0.272	194	176
3x	95	13.3	1.1	41.2	4514	0.206	233	206
3x	120	15.1	1.2	45.8	5879	0.161	268	238
3x	150	16.8	1.4	50.9	7191	0.129	300	272
3x	185	18.6	1.6	56.6	8367	0.106	340	306
3x	240	21.4	1.7	63.3	10983	0.0801	398	360
3x	300	29.3	1.8	66.9	12500	0.0641	-	429
Four cores								
4x	1.5	1.6	0.7	14.1	315	13.3	19.5	19
4x	2.5	2.0	0.7	15.3	380	7.98	26	25
4x	4	2.6	0.7	16.7	469	4.95	35	32
4x	6	3.4	0.7	18.4	572	3.30	44	41
4x	10	4.4	0.7	20.8	846	1.91	60	55
4x	16	5.7	0.7	23.4	1216	1.21	80	72
4x	25	6.9	0.9	27.7	1729	0.78	105	93
4x	35	8.1	0.9	31.0	2100	0.554	130	114
4x	50	9.8	1.0	34.5	2700	0.386	155	141
4x	70	11.6	1.1	39.5	3650	0.272	194	174
4x	95	13.3	1.1	45.0	4950	0.206	235	206
3x35+1x25		8.1	0.9	30.4	2107	0.554	130	114
3x50+1x25		9.8	1.0	33.6	2694	0.386	155	141
3x70+1x35		11.6	1.1	38.2	3714	0.272	194	174
3x95+1x50		13.3	1.1	43.4	5014	0.206	235	206
3x120+1x70		15.1	1.2	48.3	6594	0.161	267	238
3x150+1x95		16.8	1.4	53.9	8109	0.129	-	272
3x185+1x95		18.6	1.6	58.9	9340	0.106	-	306
3x240+1x150		21.4	1.7	66.9	12395	0.0801	-	360
3x300+1x150		23.9	1.8	76.5	16050	0.0641	-	429
Five cores								
5G	1.5	1.6	0.7	15.1	374	13.3	19.5	19

FG16AR16 0,6/1kV FG16OAR16 0,6/1kV

CPR Cca-s3,d1,a3

Model Product: 306-309 - 20220308

Cores number	Cross section	Approx conductor diameter	Insulation medium thickness	Maximum external diameter	Approx cable weight	Electric resistance at 20°C	Current carrying capacities	
							30°C in air pipe	20°C In ground
(N°)	(mm²)	(mm)	(mm)	(mm)	(kg/km)	(Ohm/km)	(A)	(A)
5G	2.5	2.0	0.7	16.4	455	7.98	26	25
5G	4	2.6	0.7	18.2	565	4.95	35	32
5G	6	3.4	0.7	19.8	691	3.30	44	41
5G	10	4.4	0.7	22.4	1076	1.91	60	55
5G	16	5.7	0.7	25.4	1477	1.21	80	72
5G	25	6.9	0.9	30.5	2095	0.78	105	93
5G	35	8.1	0.9	33.9	2700	0.554	130	114
5G	50	9.8	1.0	38.0	3400	0.386	155	118
5G	70	11.3	1.1	43.5	4700	0.272	194	174
5G	95	13.3	1.1	47.9	6250	0.206	235	206
5G	120	15.1	1.2	51.0	7700	0.161	-	267
Multicores								
7x	1.5	1.6	0.7	15.1	427	13.3	19.5	19
7x	2.5	2.0	0.7	17.8	533	7.98	26	25
10x	1.5	1.6	0.7	19.7	469	13.3	19.5	19
10x	2.5	2.0	0.7	21.6	681	7.98	26	25
12x	1.5	1.6	0.7	20.2	611	13.3	19.5	19
12x	2.5	2.0	0.7	22.2	780	7.98	26	25
16x	1.5	1.6	0.7	22.0	738	13.3	19.5	19
16x	2.5	2.0	0.7	24.3	1003	7.98	26	25
19x	1.5	1.6	0.7	23.0	863	13.3	19.5	19
19x	2.5	2.0	0.7	25.4	1116	7.98	26	25
24x	1.5	1.6	0.7	26.4	1033	13.3	19.5	19
24x	2.5	2.0	0.7	29.3	1348	7.98	26	25

Three, four, five and multicores cables can be produced also with Y/G core. Current carrying capacities for single core cables are calculated on 3 close cables, for two core cables with two charged conductors and for three core cables with three charged conductors. Current Carrying capacities acording to UNEL 35026 with underground laying standard CEI 64-8-61 (ground temp=20°C, depth=0.8m, ground resistivity=1.5 k m/W.).
*Braided weave of aluminium wires

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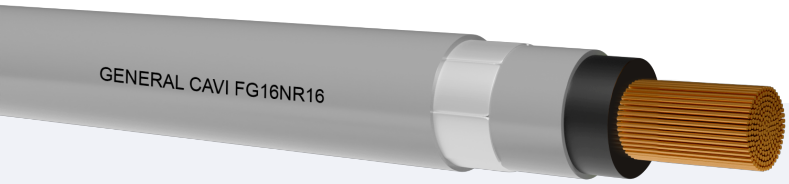
FG16NR16 0,6/1kV

(CPR Cca-s3,d1,a3)

Model Product: P07 - 20240924



CABLES FOR ENERGY ISOLATED IN HEPR OF G16 QUALITY, FLEXIBLE CABLES WITH ALUMINUM TAPES ARMOR.

Class 5 flexible copper conductor.
Elastomeric mixture insulation (G16 quality).
Not fibrous and not hygroscopic filler
Alluminium no-magnettic armour tape.
Outer Sheath PVC R16 type.

STANDARDS

CEI 20-13 CEI 20-38 pqa IEC 60502-1
EN 50575:2014+A1:2016(EN 50399/EN 60332-1-2/EN 60754-2)

Accordingly to the standards BT 2014/35/UE- 2011/65/EU (RoHS 3)

Nominal voltage U0: 600V(AC) 1800V(DC)
Nominal voltage U: 1kV(AC)1,8kV(DC)
Test voltage: 4000 V
Maximun voltage Um: 1,2kV(AC)1,8kV(DC)
Maximun operating temperature: 90°C
Maximun short circuit temperature for sections up to 240mm²: +250°C
Maximun short circuit temperature for sections over 240mm²: +220°C
Minimum installation and laying temperature: 0°C
Min. operating temperature (without mechanical shocks): -15°C

COMMON FEATURES

For electrical power system in constructions alnd other civil engineering bulginngs,in order to limit fire and smoke production and spread,in accordance with the CPR. Power use outdoor applications, even wet. For fixing outside in free air, UV rays resistant. The most important property of this kind of cable is its protection against knocks and rodents. It is especially suitable for signals.Power use outdoor applications, even wet AD7.

EMPLOYMENT

Minimum bending radius per D cable diameter (in mm): 14D

Maximum pulling stress: During installation=50 N/mm²
Static stress=15 N/mm²

PACKING

Drums to agree.

CORE COLOURS

Single core: black

SHEATH COLOUR

Grey

INK MARKING

GENERALCAVI - Cca-s3,d1,a3 - year -FG16NR16-0,61/kV - form x sect. -inner work order - progressive lenght

FG16NR16 0,6/1kV

(CPR Cca-s3,d1,a3)

Model Product: P07 - 20240924

Cores number	Cross section	Approx conductor diameter	Insulation medium thickness	Maximum external diameter	Approx cable weight	Electric resistance at 20°C	Current carrying capacities	
							30°C in air pipe	20°C In ground
(N°)	(mm²)	(mm)	(mm)	(mm)	(kg/km)	(Ohm/km)		
Single core								
1x	16	5.7	0.7	10.50	310	1.21	88	77
1x	25	6.9	0.9	12.0	400	0.78	117	100
1x	35	8.1	0.9	14.20	560	0.554	144	121
1x	50	9.8	1.0	15.90	770	0.386	175	150
1x	70	11.6	1.1	18.90	1000	0.272	184	222
1x	95	13.3	1.1	21.00	1300	0.206	217	269
1x	120	15.1	1.2	23.90	1650	0.161	259	287
1x	150	16.8	1.4	25.90	1850	0.129	355	312
1x	185	18.6	1.6	26.88	2300	0.106	417	323
1x	240	21.4	1.7	30.00	2800	0.0801	490	379
1x	300	23.9	1.8	35.50	3300	0.0641	-	429
1x	400	27.5	2.0	39.90	4300	0.0486	-	541

Current carrying capacities for single core cables are calculated on 3 close cables, for two core cables with two charged conductors and for three core cables with three charged conductors. Current Carrying capacities acording to UNEL 35026 with underground laying standard CEI 64-8-61 (ground temp=20°C, depth=0.8m, ground resistivity=1.5 k m/W.).

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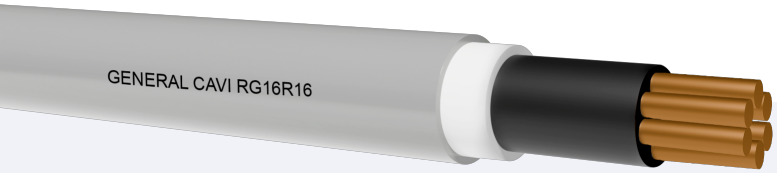
RG16R16 0,6/1KV

CPR Cca-s3,d1,a3

Model Product: P97 - 20201119



Rigid class 2 red copper conductor.
Elastomeric mixture insulation (G16 quality).
Not fibrous and not hygroscopic filler
Outer Sheath PVC R16 type.

STANDARDS

CEI UNEL 35320 CEI 20-13 IEC 60502
EN 50575:2014+A1:2016 EN 60332-1-2 EN 50399 EN 60754-2 EN 13501-6

Accordingly to the standards BT 2014/35/UE- 2011/65/EU (RoHS 3)

COMMON FEATURES

Power use outdoor and indoor applications, even wet.For electrical power system in constructions alnd other civil engineering bulginngs,in order to limit fire and smoke production and spread,in accordance with the CPR. Suitable for fixed installations at open air, in tube or canals, masonry, metals structures, overhead wire and for direct or indirect underground wiring.Good behavior at low temperatures.UV resistent

EMPLOYMENT

Minimum bending radius per D cable diameter (in mm): 6D

Maximum pulling stress: 50 N/mmq

PACKING

Drums to agree.

CPR Cables rigid for fixed installations, isolated HEPR G16 quality,

Nominal voltage U0: 600V(AC) 1800V(DC)
Nominal voltage U: 1000V(AC) 1800V(DC)
Test voltage: 4000 V
Maximun voltage Um: 1200V(AC) 1800V(DC)
Maximun operating temperature: +90°C
Maximun short circuit temperature: +250°C
Minimum installation and laying temperature: 0°C
Min. operating temperature (without mechanical shocks): -15°C

CORE COLOURS

Single core: black

SHEATH COLOUR

Grey

INK MARKING

GENERALCAVI -Cca-s3,d1,a3 - year- RG16R16-0,61/kV - form x sect. - inner work order - progressive lenght

RG16R16 0,6/1KV

CPR Cca-s3,d1,a3

Model Product: P97 - 20201119

Formation	Nominal Section	Approx cond. diameter	Insulation medium thickness	Med. sheath thickness	Maximum external diameter	Approx cable weight	Electric resistance at 20°C	Current carrying capacities 30°C		Current carrying
								Flat in air	In pipe	
(N°)	(mmq)	(mm)	(mm)	(mm)	(mm)	(kg/km)	(Ohm/km)	(A)	(A)	(A)
Single core										
1x	10	3.8	0.7	1.4	9.35	139	1.83	80	66	59
1x	16	4.7	0.7	1.4	10.77	202	1.15	107	88	77
1x	25	6.0	0.9	1.4	12.20	297	0.727	135	117	100
1x	35	7.0	0.9	1.4	13.23	390	0.524	169	144	121
1x	50	8.2	1.0	1.4	14.57	513	0.387	207	175	150
1x	70	9.8	1.1	1.4	16.58	712	0.268	268	222	184
1x	95	11.5	1.1	1.5	18.59	963	0.193	328	269	328
1x	120	13.1	1.2	1.5	19.80	1209	0.153	383	312	259
1x	150	14.3	1.4	1.6	21.80	1459	0.124	444	355	287
1x	185	16.1	1.6	1.6	24.72	1830	0.0991	510	417	323
1x	240	18.5	1.7	1.7	27.60	2358	0.0754	607	490	379
1x	300	20.7	1.8	1.8	30.90	2957	0.0601	703	555	429
1x	400	23.4	2.0	1.9	34.29	3773	0.0470	823	750	541
1x	500	26.2	2.2	2.0	38.31	4850	0.0366	946	880	565
1x	630	29.8	2.4	2.2	44.18	6214	0.0283	1088	986	645

The calculations for the current carrying capacities for the single wires have been performed for 3 close cables.
The flow rates at 20 ° C are calculated in accordance with CEI 64-8-61 laying underground (ground temp = 20 ° C, depth = 0.8m, ground resistivity = 1,5 km / W).For(ground temp = 20 ° C, depth = 0.8m, ground resistivity = 1 km /W multiply for 1,08)

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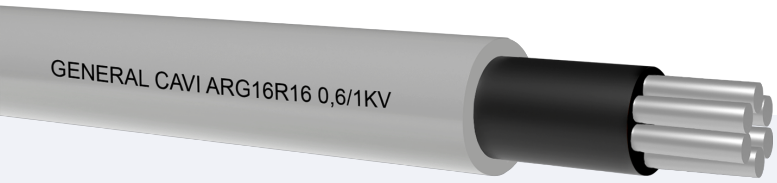
ARG16R16 0,6/1KV

CPR Cca,s3,d1,a3

Model Product: P98 - 20230619



Aluminium rigid compact conductor, class 2.
Elastomeric mixture insulation (G16 quality).
Outer Sheath PVC R16 type.

STANDARDS

CEI 20-13 IEC 60502
EN 50575:2014+A1:2016 EN 60332-1-2 EN 50399 EN 60754-2 EN 13501-6

Accordingly to the standards BT 2014/35/UE- 2011/65/EU (RoHS 3)

COMMON FEATURES

Power use outdoor and indoor applications, even wet.For electrical power system in constructions alnd other civil engineering bulginngs,in order to limit fire and smoke production and spread,in accordance with the CPR. Suitable for fixed installations at open air, in tube or canals, masonry, metals structures, overhead wire and for direct or indirect underground wiring.Good behavior at low temperatures.UV resistent

EMPLOYMENT

Minimum bending radius per D cable diameter (in mm): 6D

Maximum pulling stress: 50 N/mmq

PACKING

Drums to agree.

CPR Cables rigid aluminum for fixed installations, isolated HEPR G16 quality,

Nominal voltage U0: 600V(AC) 1800V(DC)
Nominal voltage U: 1000V(AC) 1800V(DC)
Test voltage: 4000 V
Maximun voltage Um: 1200V(AC) 1800V(DC)
Maximun operating temperature: +90°C
Maximun short circuit temperature: +250°C
Minimum installation and laying temperature: 0°C
Min. operating temperature (without mechanical shocks): -15°C

CORE COLOURS

Single core: black

SHEATH COLOUR

Grey

INK MARKING

GENERALCAVI -Cca,s3,d1,a3 - year - ARG16R16-0,61/kV - form x sect. - inner work order - progressive lenght

ARG16R16 0,6/1KV

CPR Cca,s3,d1,a3

Model Product: P98 - 20230619

ARG16R16

Formation	Nominal Section	Approx cond. diameter	Insulation medium thickness	Med. sheath thickness	Maximum external diameter	Approx cable weight	Electric resistance at 20°C	Current carrying capacities 30°C		Current carrying burried 20°C		Minimum radius bending
								Flat in air	In pipe	direct	In pipe	
(N°)	(mmq)	(mm)	(mm)	(mm)	(mm)	(kg/km)	(Ohm/km)	(A)	(A)	(A)	(A)	(mm)
Single core												
1x	10	4.0	0.7	1.4	8.0	135	3.08	62	51	53	46	54
1x	16	4.8	0.7	1.4	10.0	150	1.91	70	64	89	70	60
1x	25	6.0	0.9	1.4	11.7	185	1.20	102	88	110	95	66
1x	35	7.0	0.9	1.4	12.60	220	0.868	132	112	120	106	75
1x	50	8.2	1.0	1.4	14.00	250	0.641	161	137	135	117	84
1x	70	9.8	1.1	1.4	16.00	340	0.443	209	173	166	144	96
1x	95	11.5	1.1	1.5	18.00	440	0.320	256	210	195	170	105
1x	120	13.1	1.2	1.5	19.80	505	0.253	299	243	226	196	117
1x	150	14.3	1.4	1.6	21.80	625	0.206	346	277	258	224	129
1x	185	16.1	1.6	1.6	24.00	753	0.164	398	325	289	252	144
1x	240	18.5	1.7	1.7	26.90	977	0.125	473	382	340	296	162
1x	300	20.7	1.8	1.8	30.00	1200	0.100	548	---	385	335	177
1x	400	23.5	2.0	1.9	33.45	1488	0.0778	642	---	449	390	201
1x	500	26.5	2.2	2.0	37.60	1866	0.0605	738	---	507	441	225

The calculations for the current carrying capacities for the single wires have been performed for 3 close cables.
The flow rates at 20 ° C are calculated in accordance with CEI 64-8-61 laying underground (ground temp = 20 ° C, depth = 0.8m, ground resistivity = 1,5 km / W).For(ground temp = 20 ° C, depth = 0.8m, ground resistivity = 1 km /W multiply for 1,08)

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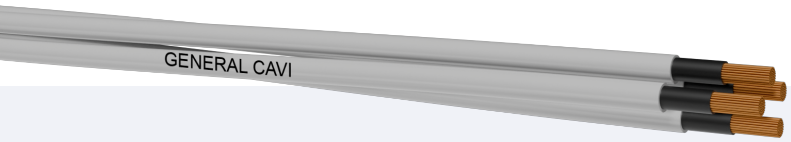
RE4E4X 0,6/1kV

CAVI AUTOPORTANTI AD ELICA VISIBILE SPECIFICHE ENEL DC 4181 DC 4908

Model Product: 298 - 20160229



LOW VOLTAGE CABLES FOR AERIAL BUNDLED CONDUCTORS

Rigid round conductor made up of semi-raw copper.
XLPE Crosslinked polyethylene insulation(no dry cool).
Crosslinked polyethylene protective sheath.

STANDARDS

ENEL DC 4181 ENEL DC 4908 CENELEC HD 626 CEI 20-58

Accordingly to the standards BT 2014/35/UE- 2011/65/EU (RoHS 2)

Nominal voltage U0: 600 V

Nominal voltage U: 1000 V

Test voltage: 4000 V

Maximun voltage Um: 1200 V

Maximun operating temperature: +85°C

Maximun short circuit temperature: +250°C

Minimum installation and laying temperature: 0°C

Min. operating temperature (without mechanical shocks): -15°C

COMMON FEATURES

For supplying through lines in air.

EMPLOYMENT

Minimum bending radius per D cable diameter (in mm):
2 core cables= 318 mm
4 core cables= 3372 mm

Maximum pulling stress: 2 core cables= 250 kg
4 core cables= 500 kg

PACKING

Drums to agree.

CORE COLOURS

Single core: black

SHEATH COLOUR

Grey

INK MARKING

GENERAL CAVI - RE4E4X - year

Conductor Number	Nominal Section	Approx conductor diameter	Maximum external diameter	Maximum reunion diameter	Electric resistance at 20°C	Approx cable weight	Current carrying capacities	
							40°C in air	40°C in air pipe
(N°)	(mm²)	(mm)	(mm)	(mm)	(Ohm/km)	(kg/km)	(A)	(A)
Two cores								
2x	10	4	8.6	17.2	1.9	250	65	62
Four cores								
4x	10	4	8.6	20.7	1.9	500	60	48

A07BN4-F WIND HEAVY WORK

Model Product: 450 - 20170112

CE

Class 5 flexible copper conductor.
Elastomeric mixture Insulation special quality.
Special Rubber outer sheath

STANDARDS

According to DIN VDE 0282-12/HD 22.12

(Accordingly to the standards BT 2014/35/UE- 2011/65/EU (RoHS 2))

COMMON FEATURES

WIND POWER APPLICATION in heavy duty. The outer sheath is acids and hydrocarbons resistant (chemical industry) and also moistness and mould resistant. This cable suitable for fi xed and protected installation voltage until 1000V AC.A system exercice voltage can always overfl ow the 10% of its standard voltage.

EMPLOYMENT

Minimum bending radius per D cable diameter (in mm):
Normal use ≤ 12D = 5D > 20D=6D
Accurate bending close to the terminal ≤ 12D = 3D > 20D=4D
Festoon i.e. for support crane ≤ 12D = 6D > 20D=8D
Repeted wiring ≤ 12D = 6D > 20D=8D
Turned off on pulley ≤ 12D = 8D > 20D=8D

Maximum pulling stress: Twist maximum:+/-150°/m

PACKING

The cable drum length may be decided at order time.

RUBBER SHEATFOR WIND POWER APPLICATION

Nominal voltage U0: 450 V
Nominal voltage U: 750 V
Test voltage: 3000 V
Maximun voltage Um: 1000V Installazioni Fisse / for fixed installation
Maximun operating temperature: +90°C
Maximun short circuit temperature: +250°C
Minimum installation and laying temperature: -30°C
Min. operating temperature (without mechanical shocks): -40°c

CORE COLOURS

Single core: Light-Grey

Three cores: Brown - Black - Gray (o Y/G, Blue and Brown)

SHEATH COLOUR

Black

INK MARKING

GENERAL CAVI WINDHEAVYWORK AO7BN4-F

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A07BN4-F WIND HEAVY WORK

Model Product: 450 - 20170112

Cores number	Nominal Section	Approx conductor diameter	Insulation minimum thickness	Maximum external diameter	Electric resistance at 20°C	Current carrying capacities 30°C		Current carrying capacities 40°C		Current carrying capacities 50°C	
						Spaced	Trefoil	Spaced	Trefoil	Spaced	Trefoil
(N°)	(mm²)	(mm)	(mm)	(mm)	(Ohm/km)	(A)	(A)	(A)	(A)	(A)	(A)
Single core											
1x	25	6	1.4	13.74	0.78	182	135	165	122	149	110
1x	35	8.1	1.4	15.35	0.554	226	169	205	154	185	138
1x	50	9.8	1.6	17.68	0.386	275	207	250	188	225	169
1x	70	11.6	1.6	20.00	0.272	353	268	321	243	289	219
1x	95	13.3	1.8	22.12	0.206	430	328	391	298	352	268
1x	120	15.1	1.8	24.54	0.161	500	383	455	348	410	314
1x	150	16.8	2.0	26.87	0.129	577	444	525	404	473	364
1x	185	18.6	2.2	28.89	0.106	661	510	601	464	542	418
1x	240	21.4	2.4	32.62	0.0801	781	607	710	552	640	497
1x	300	23.9	2.6	36.46	0.0641	902	703	820	639	739	576
Three cores											
3x	25	6.9	1.4	28.70	0.78	-	127	-	116	-	105
3x	35	8.1	1.4	32.19	0.554	-	158	-	144	-	130
3x	50	9.8	1.6	37.02	0.386	-	192	-	175	-	158
3x	70	11.6	1.6	42.07	0.272	-	246	-	224	-	202
3x	95	13.3	1.8	46.58	0.206	-	298	-	272	-	245
3x	120	15.1	1.8	51.74	0.161	-	346	-	315	-	284
3x	150	16.8	2.0	57.21	0.129	-	399	-	364	-	328
3x	185	18.6	2.2	61.59	0.106	-	456	-	415	-	374

Correction factor to calculate:
40°C=0,91
50°C=0,82

Conductor at 90°C, Cable in free air

A07ZZ-F WIND LS0H

Model Product: 451 - 20161020

STANDARDS

According to DIN VDE 0282-12/HD 22.12

Accordingly to the standards 2014/35/UE- 2011/65/EU (RoHS 2)

COMMON FEATURES

WIND POWER APPLICATION in medium duty. The outer sheath is acids and hydrocarbons resistant (chemical industry) and also moistness and mould resistant.. The cable is moreover made with LSOH compounds (protection against smoke, toxic and corrosive gases in case of fi re). This cable suitable for fi xed and protected installation voltage until 1000V AC.

EMPLOYMENT

Minimum bending radius per D cable diameter (in mm):
Normal use ≤ 12D = 5D > 20D=6D
Accurate bending close to the terminal ≤ 12D = 3D > 20D=4D
Festoon i.e. for support crane ≤ 12D = 6D > 20D=8D
Repeted wiring ≤ 12D = 6D > 20D=8D
Turned off on pulley ≤ 12D = 8D > 20D=8D

Maximum pulling stress: Twist maximum:+/-150°/m

PACKING

The cable drum length may be decided at order time.

RESISTANCE RUBBER SHEAT FOR WIND POWER APPLICATION

Nominal voltage U0: 450 V

Nominal voltage U: 750 V

Test voltage: 3000 V

Maximun voltage Um: 1000V Installazioni Fisse / for fixed and protected installation

Maximun operating temperature: +90°C

Maximun short circuit temperature: +250°C

Minimum installation and laying temperature: -30°C

Min. operating temperature (without mechanical shocks): -40°c

CORE COLOURS

Single core: Light-Grey

SHEATH COLOUR

Black

INK MARKING

GENERAL CAVI WIND LS0H AO7ZZ-F

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Catalogo prodotti da costruzione CPR UE305/2011

A07ZZ-F WIND LS0H

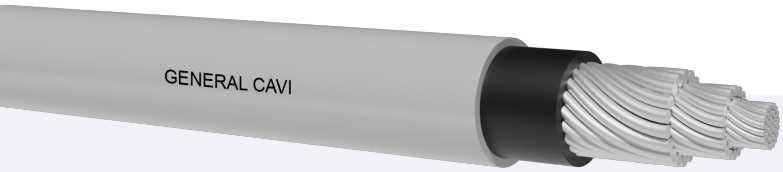
Model Product: 451 - 20161020

Cores number	Nominal Section	Approx conductor diameter	Insulation minimum thickness	Maximum external diameter	Electric resistance at 20°C	Current carrying capacities 60°C
(N°)	(mm²)	(mm)	(mm)	(mm)	(Ohm/km)	(A)
Single core						
1x	25	6	1.4	13.74	0.78	117
1x	35	8.1	1.4	15.35	0.554	144
1x	50	9.8	1.6	17.68	0.386	175
1x	70	11.6	1.6	20.00	0.272	222
1x	95	13.3	1.8	22.12	0.206	269
1x	120	15.1	1.8	24.54	0.161	312
1x	150	16.8	2.0	26.87	0.129	355
1x	185	18.6	2.2	28.89	0.106	417
1x	240	21.4	2.4	32.62	0.0801	490
1x	300	23.9	2.6	36.46	0.0641	540
Three cores						
3x	25	6.9	1.4	28.70	0.78	177
3x	35	8.1	1.4	32.19	0.554	144
3x	50	9.8	1.6	37.02	0.386	175
3x	70	11.6	1.6	42.07	0.272	222
3x	95	13.3	1.8	46.58	0.206	269
3x	120	15.1	1.8	51.74	0.161	312
3x	150	16.8	2.0	57.21	0.129	355
3x	185	18.6	2.2	61.59	0.106	417

ARE4E(X) 0.6/1kV

CAVI UNIPOLARI O AD ELICA VISIBILE PER POSA INTERRATA OMOLOGATI ENEL DC 4147

Model Product: 287 - 20161020



Aluminium rigid compact conductor, class 2.
XLPE Insulation quality DIX3
Thermoplastic sheath, DMO1

STANDARDS

ENEL DC 4147 HD 603 HD 605 EN 60228 EN 60811 EN 60332-2-1

Accordingly to the standards BT 2014/35/UE- 2011/65/EU (RoHS 2)

LV CABLE ALUMINIUM SINGLE CORE AND TRIPLEX ASSEMBLY FOR LAYING UNDERGROUND

Nominal voltage U0: 600 V
Nominal voltage U: 1000 V
Test voltage: 4000 V
Maximun voltage Um: 1200 V
Maximun operating temperature: 85°C
Maximun short circuit temperature: 250°C
Minimum installation and laying temperature: 0°C
Min. operating temperature (without mechanical shocks): -15°C

COMMON FEATURES

Underground installation cable for distribution of electricity with a voltage Uo / U = 0.6 / 1 kV

EMPLOYMENT

Minimum bending radius per D cable diameter (in mm): 6D

Maximum pulling stress: 50 N/mmq

PACKING

Drums to agree

CORE COLOURS

Single core: black

SHEATH COLOUR

Grey

INK MARKING

General Cavi
complete description of the cable
last two digits of the year of production
Single core
ENEL ARE4*E-0,6/1 kV 50 XXXXX B 01 2006 12 0000
Triplex Assebly
phase 1:
ENEL ARE4*EX-0,6/1 kV 95 XXXXX B 01 2008 12 0000 .... FASE 1 .... FASE 1 ....
phase 2 o 3:
ENEL ARE4*EX-0,6/1 kV 95 XXXXX B 01 2008 12 .... FASE x .... FASE x ....

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ARE4E(X) 0.6/1kV

CAVI UNIPOLARI O AD ELICA VISIBILE PER POSA INTERRATA OMOLOGATI ENEL DC 4147

Model Product: 287 - 20161020

ARE4E 0,6/1kV

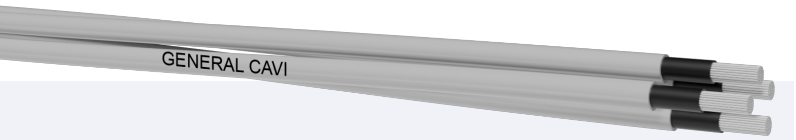
Formation	Nominal Section	Approx conductor diameter	Iinsulation thickness	Approx external diameter	Approx cable weight	Elettric Resistace 20°C	Current carrying capacities				Thermal Current Short Circuit
							Flat in air	In pipe	directly buried	In pipe burried	
(N°)	(mmq)	(mm)	(mm)	(mm)	(kg/km)	(Ohm/km)	(A)	(A)	(A)	(A)	(kA)
Single core											
1x	50	8.6	1.0	14.0	250	0.641	164	131	167	134	4.3
1x	95	12	1.1	17.5	440	0.320	261	209	245	196	8.9
1x	150	15	1.4	21.5	625	0.260	350	280	313	250	13
1x	240	19.2	1.7	27	977	0.125	490	392	413	331	23

Conductor Number	Nominal Section	Current carrying capacities				Thermal Current Short Circuit
		in air	in pipe air	Flat in ground	Pipe In ground	
(N°)	(mmq)	(A)	(A)	(A)	(A)	(kA)
Three cores						
3x	95+50N	239	210	245	195	4.6
3x	150+95N	318	280	305	245	8.4
3x	240+150N	425	375	405	325	13.8

ARE4E4X 0,6/1kV

CAVI PER LINEE AEREE SPECIFICHE DC ENEL 4183 - 4908

Model Product: 288 - 20161020



CE

Aluminium rigid compact conductor, class 2.
XLPE Insulation quality DIX3
Crosslinked polyethylene protective sheath.

STANDARDS

ENEL DC 4183 - 4908 HD 626 pqa CEI 20-58 pqa

Accordingly to the standards BT 2014/35/UE- 2011/65/EU (RoHS 2)

CABLES SUITABLE FOR POWER SYSTEM WITH OVERHEAD LINES

Nominal voltage U0: 600 V

Nominal voltage U: 1000 V

Test voltage: 4000 V

Maximun voltage Um: 1200 V

Maximun operating temperature: +70°C

Maximun short circuit temperature: + 160°C

Minimum installation and laying temperature: 0°C

Min. operating temperature (without mechanical shocks): -15°C

COMMON FEATURES

LV sef-supporting two/four cores cables with triplex assembly,suitable for power system with overhead lines

EMPLOYMENT

Minimum bending radius per D cable diameter (in mm): 18D

Maximum pulling stress: 250 Kg two cores
500 kg four cores

CORE COLOURS

Two cores: black

Four cores: black

SHEATH COLOUR

Grey

INK MARKING

GENERAL CAVI ARE4E4X 0,6/1kV work order and last two digites of the yar of production

Conductor Number	Nominal Section	Approx conductor diameter	Average insulation thickness	External diameter	Approx cable weight	Electric resistance at 20°C	Current carrying capacities		Minimum radius bending
							40° in open air	40°C in duct in air	
	(mmq)	(mm)	(mm)	(mm)	(kg/km)	(Ohm/km)			(mm)
Two cores									
2x1x	16	5.1	1.2	16.2	175	1.91	70	56	290
Four cores									
4x1x	16	5.1	1.2	19.5	300	1.91	65	52	350

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HARMONIZED

H1Z2Z2-K

SOLAR ENERGY CPR Eca

Model Product: 395 - 20240307

SINGLE CORE FLEXIBLE CABLES, SUITED FOR PHOTOVOLTAIC AND SOLAR SYSTEM WITH CROSSLINKED POLYMER LS0H INSULATION AND HALOGEN FREE SHEATH. TESTED FOR MORE 25 YEARS LONG LIFE. THESE CABLES CAN BE USED UP TO 1800 Vcc TO THE GROUND CONTACT

LS0H special compound isolation reticulated
Halogen Free Sheath cross-linked special compound
Flexible conductor TINNED copper, class 5.

STANDARDS

CEI EN 50618
EN 50575:2014 + EN 50575/A1:2016

Accordingly to the standards BT 2014/35/UE- 2011/65/EU (RoHS 3)

Nominal voltage U0: 1000V(AC) 1500V(DC)
Nominal voltage U: 1000V(AC) 1500V(DC)
Test voltage: 6500 V AC
Maximun voltage Um: 1200V(AC) 1800V(DC Anche verso Terra)
Maximun operating temperature: +90°C +120°C sul conduttore
Maximun short circuit temperature: +250°C/5s
Minimum installation and laying temperature: -40°C to +90°C
Min. operating temperature (without mechanical shocks): -40°C

COMMON FEATURES

For the interconnection of the various elements of photovoltaic systems , suitable for fixed installations outs ide and inside, unprotected pipes within s ight or cashed out, or similar closed system CPR approvad. Ozone-resistant according to EN50396. UV-res is tant according to HD605/A1. The cable is tes ted for durability according to EN 60216 (indicated also in 2P fg 169/08.2007)S tandard interpretation under continuous use temperature 120°C for 20000h (= 2.3, years) continuous use temperature 90°C (= 30 years For direct or indirect underground wiring. Power and control use outdoor applications.
SPECIAL FEATURES:
Water resistant AD8 as per CEI EN 50525-2-21

EMPLOYMENT

Minimum bending radius per D cable diameter (in mm):

Diameter	8	12	20	> 20
Terminal	2D	3D	4D	4D
Fixed	3D	3D	4D	4D

Maximum pulling stress: Maximum tensile load: 15N/mm²;

PACKING

100mt. rings in thermo foil or drums with quality to agree.

CORE COLOURS

Single core: Light-Grey

SHEATH COLOUR

Black, Red, Blue

INK MARKING

GENERAL CAVI- Eca - IEMMEQU - <HAR> H1Z2Z2-K YEAR progressive lenght.

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Catalogo prodotti da costruzione CPR UE305/2011

H1Z2Z2-K

SOLAR ENERGY CPR Eca

Model Product: 395 - 20240307

Cores number	Nominal Section	Approx conductor diameter	Insulation medium thickness	Maximum external diameter	Approx cable weight	Electric resistance at 20°C	Current carrying capacities 60°C	Current carrying burried 20°C
(N°)	(mm²)	(mm)	(mm)	(mm)	(kg/km)	(Ohm/km)	(A)	(A)
Single core								
1x	2.5	2.0	0.7	5.4	42.5	8.21	41	32
1x	4 #	2.5	0.7	6.6	58.2	5.09	55	41
1x	6 #	3.0	0.7	7.4	79.4	3.39	70	52
1x	10 #	3.9	0.7	8.8	128.4	1.95	98	70
1x	16 #	5.0	0.7	10.1	184.5	1.24	132	91
1x	25	6.4	0.9	12.5	276.8	0.795	176	118
1x	35	7.7	0.9	14.0	368.8	0.565	218	144
1x	50	9.2	1.0	16.3	557	0.393	276	178
1x	70	11.0	1.1	18.7	767	0.277	347	218
1x	95	12.5	1.1	20.8	989.6	0.210	416	258
1x	120	14.2	1.2	22.8	1232.8	0.164	488	298
1x	150	15.8	1.4	25.5	1540	0.132	566	386
1x	185	17.5	1.6	28.5	1833	0.108	644	515
1x	240	20.1	1.7	32.1	2450	0.0817	775	620
1x	300*	23.9	1.8	35.0	2950	0.0641	855	709

#TUV
*NO IMQ

H1Z2Z2-K(Deutsch)

Solarleitung CPR Eca

Model Product: 395 - 20210331

LS0H special compound isolation reticulated
Halogen Free Sheath cross-linked special compound
Flexible conductor TINNED copper, class 5.

STANDARDS

CEI EN 50618
EN 50575:2014 + EN 50575/A1:2016

Accordingly to the standards BT 2014/35/UE- 2011/65/EU (RoHS 3)

FLEXIBLE SINGLE CORE CABLES WITH MAXIMUM RATED VOLTAGE 1800Vdc FOR PHOTOVOLTAIC AND SOLAR SYSTEMS WITH INSULATION AND SHEATH IN HALOGEN-FREE CROSS-LINKED MIXTURE LS0H TESTED TO LAST MORE THAN 25 YEARS THESE CABLES CAN BE USED UP TO 1800Vdc TO THE GROUND CONTACT

Nominal voltage U0: 1000V(AC) 1500V(DC)
Nominal voltage U: 1000V(AC) 1500V(DC)
Test voltage: 6500 V AC
Maximun voltage Um: 1200V(AC) 1800V(DC Anche verso Terra)
Maximun operating temperature: +90°C +120°C sul conduttore
Maximun short circuit temperature: +250°C/5s
Minimum installation and laying temperature: -40°C to +90°C
Min. operating temperature (without mechanical shocks): -40°C

COMMON FEATURES

Kabel geeignet fuer die Verbindung der unterschiedlichen Elemente in Solar- und Photovoltaiksystemen, geeignet für feste Verlegung innen und außen, in ungeschützten Rohren oder aehnlichen geschlossenen Systemen. Ozonbestaendig nach EN50396. UV-bestaendig nach HD605/A1. Das Kabel wurde nach EN 60216 auf Lebensdauer getestet. (auch als 2Pfg angegeben 169/08.2007) Temperatur von 120°C fuer 20.000 Stunden (=2,3 Jahre), Einsatztemperatur 90°C (=30, Jahre) Auch für direkte oder indirekte unterirdische Verlegung in Außenumgebungen geeignet, auch für nasse SPECIAL FEATURES: Water resistant AD8 as per CEI EN 50525-2-21. Versorgung von Elektrizitaet in Gebaeuden oder oeffentlichem Bauwesen mit dem Ziel, die Erzeugung und Verbreitung von Feuer und Rauch zu limitieren.

EMPLOYMENT

Minimum bending radius per D cable diameter (in mm):

Durchmesser:	8	12	20	> 20
Kurzfristig während der Verlegung:	2D	3D	4D	4D
Fest verlegt	3D	3D	4D	4D

Maximum pulling stress: Maximale Zugkraft: 15N/mm²;

PACKING

100 m-Ringe in Kunststoffolie oder Trommelware

CORE COLOURS

Single core: Ader: hellgrau

SHEATH COLOUR

Schwarz, rot

INK MARKING

GENERAL Cavi - Eca - IEMMEQU - >HAR> H1Z2Z2-K Jahr Metermarkierung

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H1Z2Z2-K(Deutsch)

Solarleitung CPR Eca

Model Product: 395 - 20210331

H1Z2Z2-K

Cores number	Nominal Section	Approx conductor diameter	Insulation medium thickness	Maximum external diameter	Approx cable weight	Electric resistance at 20°C	Current carrying capacities 60°C	Current carrying burried 20°C
(N°)	(mm²)	(mm)	(mm)	(mm)	(kg/km)	(Ohm/km)	(A)	(A)
Single core								
1x	4	2.5	0.7	6.6	58.2	5.09	55	41
1x	6	3.0	0.7	7.4	79.4	3.39	70	52
1x	10	3.9	0.7	8.8	128.4	1.95	98	70
1x	16	5.0	0.7	10.1	184.5	1.24	132	91

H1Z2Z2-K HP

SOLAR ENERGY CPR Dca s2,d2,a1

Model Product: 395 - 20240523

LS0H special compound isolation reticulated
Halogen Free Sheath cross-linked special compound
Flexible conductor TINNED copper, class 5.

STANDARDS

CEI EN 50618
EN 50575:2014 + EN 50575/A1:2016

Accordingly to the standards BT 2014/35/UE- 2011/65/EU (RoHS 3)

SINGLE CORE FLEXIBLE CABLES, SUITED FOR PHOTOVOLTAIC AND SOLAR SYSTEM WITH CROSSLINKED POLYMER LS0H INSULATION AND HALOGEN FREE SHEATH. TESTED FOR MORE 25 YEARS LONG LIFE. THESE CABLES CAN BE USED UP TO 1800 Vcc TO THE GROUND CONTACT

Nominal voltage U0: 1000V(AC) 1500V(DC)
Nominal voltage U: 1000V(AC) 1500V(DC)
Test voltage: 6500 V AC
Maximun voltage Um: 1200V(AC) 1800V(DC Anche verso Terra)
Maximun operating temperature: +90°C +120°C sul conduttore
Maximun short circuit temperature: +250°C/5s
Minimum installation and laying temperature: -40°C to +90°C
Min. operating temperature (without mechanical shocks): -40°C

COMMON FEATURES

For the interconnection of the various elements of photovoltaic systems , suitable for fixed installations outs ide and inside, unprotected pipes within s ight or cashed out, or similar closed system CPR approvad. Ozone-resistant according to EN50396. UV-res is tant according to HD605/A1. The cable is tes ted for durability according to EN 60216 (indicated also in 2P fg 169/08.2007)S tandard interpretation under continuous use temperature 120°C for 20000h (= 2.3, years) continuous use temperature 90°C (= 30 years For direct or indirect underground wiring. Power and control use outdoor applications.
SPECIAL FEATURES:
Water resistant AD8 as per CEI EN 50525-2-21

EMPLOYMENT

Minimum bending radius per D cable diameter (in mm):

Diameter	8	12	20	> 20
Terminal	2D	3D	4D	4D
Fixed	3D	3D	4D	4D

Maximum pulling stress: Maximum tensile load: 15N/mm²;

PACKING

100mt. rings in thermo foil or drums with quality to agree.

CORE COLOURS

Single core: Light-Grey

SHEATH COLOUR

Black, Red, Blue

INK MARKING

GENERAL CAVI- Dca s2,d2,a1 - IEMMEQU - <HAR> H1Z2Z2-K HP YEAR progressive lenght.

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Catalogo prodotti da costruzione CPR UE305/2011

H1Z2Z2-K HP

Cores number	Nominal Section	Approx conductor diameter	Insulation medium thickness	Maximum external diameter	Approx cable weight	Electric resistance at 20°C	Current carrying capacities 60°C	Current carrying burried 20°C
(N°)	(mm²)	(mm)	(mm)	(mm)	(kg/km)	(Ohm/km)	(A)	(A)
Single core								
1x	4 #	2.5	0.7	6.6	58.2	5.09	55	41
1x	6 #	3.0	0.7	7.4	79.4	3.39	70	52
1x	10 #	3.9	0.7	8.8	128.4	1.95	98	70
1x	16 #	5.0	0.7	10.1	184.5	1.24	132	91
1x	25	6.4	0.9	12.5	276.8	0.795	176	118
1x	35	7.7	0.9	14.0	368.8	0.565	218	144
1x	50	9.2	1.0	16.3	557	0.393	276	178
1x	70	11.0	1.1	18.7	767	0.277	347	218

#TUV

H05V-K

CPR Eca

Model Product: 204 - 20230728

FLEXIBLE SINGLE CORE CABLES WITHOUT SHEATH FOR INDOOR WIRING

Flexible conductor bare or tinned copper, class 5.
PVC insulation in TI1 quality

STANDARDS

CEI EN 50525-2-31 CEI 20-20/3(CENELEC HD 21.3 S3), BS EN 50525-2-31 ,NF C 32-201-3 ,DIN VDE 0285-525-2-31 EN 50575:2014 + EN 50575/A1:2016(IEC 60332-1-2)(IEC 60227-3)

Accordingly to the standards BT 2014/35/UE- 2011/65/EU (RoHS 3)

- Nominal voltage U0: 300 V
- Nominal voltage U: 500 V
- Test voltage: 2000 V
- Maximun operating temperature: +70°C
- Maximun short circuit temperature: +160°C
- Minimum installation and laying temperature: +5°C
- Min. operating temperature (without mechanical shocks): -10°C

COMMON FEATURES

For fixed and protected installation at into electrical sets, upon or into illumination sets. It must be laid inside pipes at sight or embedded system, only control circuits or signal circuits.Supply of electricity and communications in buildings and other civil engineering works with the objective of limiting the generation and spread of fire and smoke.

EMPLOYMENT

Minimum bending radius per D cable diameter (in mm):
Fixed lay:D<8=3D D<12=3D D>12=4D
Curve near terminal:D<8=2D D<12=3D D>12=4D

Maximum pulling stress:

PACKING

100mt. rings in thermoplastic film or cardboard packagings

CORE COLOURS

Single core: It's allowed the suitable single colours:Black, light blue, brown, grey, orange, pink, red, touquoise, violet, white, green and yellow. It's allowed all bicolour combinations of that colours.

MARKING ENGRAVING

GENERAL CAVI - IEMMEQU <HAR> - Eca -year

NOTE

Maximum storage temperature: +40°C
CEI 20-40 "Guide to use of low-voltage cables
The colors distribution of Y / G has to follow what is indicated in CEI EN 50525-1 5.4.4, the use of yellow or green in some countries may be prohibited or restricted by regulations or other national security. In some countries the use of green is allowed especially for decorative chains.

Conductor Number	Cross section	Maximum conductor diameter	Iinsulation thickness	External diameter		Electric resistance at 20°C	Approx cable weight	Current carrying capacities in air 30°C
				Minimum	maximum			
(N°)	(mm²)	(mm)	(mm)	(mm)	(mm)	(Ohm/km)	(kg/km)	(A)
Single core								
1x	0.5	0.77	0.6	2.1	2.5	39.0	8.4	3
1x	0.75	0.95	0.6	2.2	2.7	26.0	11.0	6
1x	1	1.30	0.6	2.4	2.8	19.5	13.8	10

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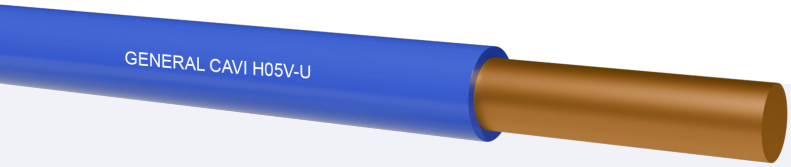
Catalogo prodotti da costruzione CPR UE305/2011

H05V-U

CPR Eca

Model Product: 208 - 20200910



Rigid class 1 red copper conductor.
PVC insulation in TI1 quality

STANDARDS

CEI EN 50525-2-31 CEI 20-20/3(CENELEC HD 21.3 S3), BS EN 50525-2-31 ,NF C 32-201-3 ,DIN VDE 0285-525-2-31 EN 50575:2014 + EN 50575/A1:2016(IEC 60332-1-2)(IEC 60227-3)

Accordingly to the standards BT 2014/35/UE- 2011/65/EU (RoHS 3)

SOUD CONDUCTOR SINGLE CORE CABLES WITHOUT SHEATH FOR INDOOR WIRING

Nominal voltage U0: 300 V

Nominal voltage U: 500 V

Maximun operating temperature: +70°C

Maximun short circuit temperature: +160°C

Minimum installation and laying temperature: +5°C

Min. operating temperature (without mechanical shocks): -10°C

COMMON FEATURES

Fixed protected installation inside appliances and in, or on, lighting fittings. Suitable for installation in surface mounted or embedded conduits, only for signalling and control circuits.Supply of electricity and communications in buildings and other civil engineering works with the objective of limiting thegeneration and spread of fire and smoke.

EMPLOYMENT

Minimum bending radius per D cable diameter (in mm):
Fixed lay≤4D
Curving taken care of in proximity of finishes them≤2D

Maximum pulling stress: 50 N/mm2

PACKING

100mt. rings in thermoplastic film. Drums to agree.
Note: Maximum storage temperature: +40°C

CORE COLOURS

Single core: Black, light blue, brown, grey, orange, pink, red, turquoise, violet, white, green and yellow.

INK MARKING

GENERAL CAVI - IEMMEQU <HAR> - H05V-U - Eca - year

NOTE

Maximum storage temperature: +40°C
CEI 20-40 "Guide to use of low-voltage cables
The colors distribution of Y / G has to follow what is indicated in CEI EN 50525-1 5.4.4, the use of yellow or green in some countries may be prohibited or restricted by regulations or other national security. In some countries the use of green is allowed especially for decorative chains.

Conductor Number	Cross section	Maximum conductor diameter	Iinsulation thickness	External diameter		Electric resistance at 20°C	Approx cable weight	Current carrying capacities in air 30°C
				Minimum	maximum			
(N°)	(mm²)	(mm)	(mm)	(mm)	(mm)	(Ohm/km)	(kg/km)	(A)
Single core								
1x	0.5	0.77	0.6	1.9	2.3	36.0	9	3
1x	0.75	0.95	0.6	2.1	2.5	24.5	12	6
1x	1.0	1.30	0.6	2.2	2.7	18.1	14	10

H07V-K

CPR Eca

Model Product: 202 - 20230213

Flexible conductor bare or tinned copper, class 5.
PVC insulation in TI1 quality

STANDARDS

CEI EN 50525-2-31 CEI 20-20/3(CENELEC HD 21.3 S3), BS EN 50525-2-31 ,NF C 32-201-3 ,DIN VDE 0285-525-2-31 EN 50575:2014 + EN 50575/A1:2016(IEC 60332-1-2)(IEC 60227-3)

Accordingly to the standards BT 2014/35/UE- 2011/65/EU (RoHS 3)

COMMON FEATURES

It must be laid inside pipes at sight, embedded or closed systems. Allowed for fixed and protected installation, upon or into illumination sets for voltage up to 1000V AC or 750V DC to ground.Supply of electricity and communications in buildings and other civil engineering works with the objective of limiting the generation and spread of fire and smoke.

EMPLOYMENT

Minimum bending radius per D cable diameter (in mm):
Fixed lay:D<8=3D D<12=3D D>12=4D
Curve near terminal:D<8=2D D<12=3D D>12=4D

Maximum pulling stress: 50 N/mm2

PACKING

100mt. rings in thermoplastic film or cardboard packagings

FLEXIBLE SINGLE CORE CABLES WITHOUT SHEATH FOR GENERAL PURPOSE

Nominal voltage U0: 450 V
Nominal voltage U: 750 V
Test voltage: 2500 V
Maximun operating temperature: +70°C
Maximun short circuit temperature: +160°C
Minimum installation and laying temperature: +5°C
Min. operating temperature (without mechanical shocks): -10°C

CORE COLOURS

Single core: Black, light blue, brown, grey, orange, pink, red, touquoise, violet, white, Y/G.

MARKING ENGRAVING

GENERAL CAVI - IEMMEQU <HAR> - Eca - year

NOTE

Maximum storage temperature: +40°C.
Constructive references as applicable to the IEC 60227

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H07V-K

CPR Eca

Model Product: 202 - 20230213

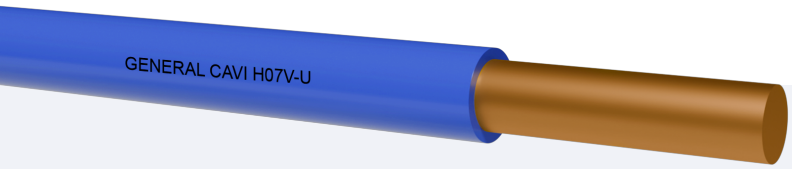
Conductor Number	Nominal Section	Approx conductor diameter	Insulation medium thickness	Approx external production diameter	Approx cable weight	Elettric Resistace 20°C	Insulation resistence at 70°C	Current carrying capacities 30°C
								30° In tubo o in aria
(N°)	(mmq)	(mm)	(mm)	(mm)	(kg/km)	(Ohm/km)	(Mohm/km)	(A)
Single core								
1x	1.5	1.6	0.7	3.1	19	13.3	0.01	15.5
1x	2.5	2	0.8	3.75	31	7.98	0.0095	21
1x	4	2.6	0.8	4.4	45	4.95	0.0078	28
1x	6	3.4	0.8	4.9	63	3.3	0.0068	36
1x	10	4.4	1	6.4	108	1.91	0.0065	50
1x	16	5.7	1	7.4	160	1.21	0.0053	68
1x	25	6.9	1.2	9.1	246	0.78	0.0050	89
1x	35	8.1	1.2	10.35	335	0.554	0.0043	110
1x	50	9.8	1.4	12.4	482	0.386	0.0042	154
1x	70	11.6	1.4	13.6	668	0.272	0.0036	171
1x	95	13.3	1.6	15.8	884	0.206	0.0036	207
1x	120	15.1	1.6	17.4	1106	0.161	0.0032	239
1x	150	16.8	1.8	19.8	1382	0129	0.0032	275
1x	185	18.8	2	21.6	1690	0.106	0.0032	314
1x	240	21.4	2.2	24.6	2212	0.0801	0.0031	369

Current carrying capacities are calculated on a single circuit with 3 loaded conductors. Lay type: CEI 64-8 Tab 52.C (3-5-31-32-33-33-18)

H07V-U

CPR Eca

Model Product: 201 - 20230213



RIGID SINGLE CORE CABLES WITHOUT SHEATH FOR GENERAL PURPOSE

Rigid class 1 red copper conductor.
PVC insulation in TI1 quality

STANDARDS

CEI EN 50525-2-31 CEI 20-20/3(CENELEC HD 21.3 S3), BS EN 50525-2-31 ,NF C 32-201-3 ,DIN VDE 0285-525-2-31 EN 50575:2014 + EN 50575/A1:2016(IEC 60332-1-2)(IEC 60227-3)

Accordingly to the standards BT 2014/35/UE- 2011/65/EU (RoHS 3)

Nominal voltage U0: 450 V
Nominal voltage U: 750 V
Test voltage: 2500 V
Maximun operating temperature: +70°C
Maximun short circuit temperature: +160°C
Minimum installation and laying temperature: +5°C
Min. operating temperature (without mechanical shocks): -10°C

COMMON FEATURES

It must be laid inside pipes at sight, embedded or closed systems. Allowed for fixed and protected installation, upon or into illumination sets for voltage up to 1000V AC or 750V DC to ground.Supply of electricity and communications in buildings and other civil engineering works with the objective of limiting the generation and spread of fire and smoke.

EMPLOYMENT

Minimum bending radius per D cable diameter (in mm):
Fixed lay:D<8=4D D<12=5D D>12=6D
Curve near terminal:D<8=2D D<12=3D D>12=4D

Maximum pulling stress: 50 N/mm2

PACKING

100mt. rings in thermoplastic film or cardboard packagings

CORE COLOURS

Single core: Black, light blue, brown, grey, orange, pink, red, touquoise, violet, white,Y/G.

MARKING ENGRAVING

GENERAL CAVI - IEMMEQU <HAR> - Eca - year

NOTE

Maximum storage temperature: +40°C.

Cores number	Cross section	Approx conductor diameter	Insulation medium thickness	Approx external production diameter	Approx cable weight	Electric resistance at 20°C	Current carrying capacities in air 30°C
(N°)	(mm²)	(mm)	(mm)	(mm)	(kg/km)	(Ohm/km)	(A)
Single core							
1x	1.5	1.4	0.7	3.1	21	12.1	16
1x	2.5	1.8	0.8	3.75	32	7.41	20
1x	4	2.3	0.8	4.4	48	4.61	25
1x	6	2.8	0.8	4.9	66	3.08	36
1x	10	3.5	1	6.4	112	1.83	50

Current carrying capacities are calculated on a single circuit with 3 loaded conductors. Lay type: CEI 64-8 Tab 52.C (3-5-31-32-33-33-18)

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H07V-R

CPR Eca

Model Product: 201 - 20230213

Rigid class 2 red copper conductor.
PVC insulation in TI1 quality

STANDARDS

CEI EN 50525-2-31 CEI 20-20/3(CENELEC HD 21.3 S3), BS EN 50525-2-31 ,NF C 32-201-3 ,DIN VDE 0285-525-2-31 EN 50575:2014 + EN 50575/A1:2016(IEC 60332-1-2)(IEC 60227-3)

Accordingly to the standards BT 2014/35/UE- 2011/65/EU (RoHS 3)

COMMON FEATURES

It must be laid inside pipes at sight, embedded or closed systems. Allowed for fixed and protected installation, upon or into illumination sets for voltage up to 1000V AC or 750V DC to ground.Supply of electricity and communications in buildings and other civil engineering works with the objective of limiting the generation and spread of fire and smoke

EMPLOYMENT

Minimum bending radius per D cable diameter (in mm):
Fixed lay:D<8=4D D<12=5D D>12=6D
Curve near terminal:D<8=2D D<12=3D D>12=4D

Maximum pulling stress: 50 N/mm2

PACKING

100mt. rings in thermoplastic film or cardboard packagings

RIGID SINGLE CORE CABLES WITHOUT SHEATH FOR GENERAL PURPOSE

Nominal voltage U0: 450 V
Nominal voltage U: 750 V
Test voltage: 2500 V
Maximun operating temperature: +70°C
Maximun short circuit temperature for sections up to 240mm²: +160°C
Maximun short circuit temperature for sections over 240mm²: +140°C
Minimum installation and laying temperature: +5°C
Min. operating temperature (without mechanical shocks): -10°C

CORE COLOURS

Single core: Black, light blue, brown, grey, orange, pink, red, touquoise, violet,white, Y/G.

MARKING ENGRAVING

GENERAL CAVI - IEMMEQU <HAR>-Eca - year

NOTE

Maximum storage temperature: +40°C.

H07V-R

CPR Eca

Model Product: 201 - 20230213

Cores number	Cross section	Approx conductor diameter	Insulation medium thickness	Approx external production diameter	Approx cable weight	Electric resistance at 20°C	Current carrying capacities in air 30°C
(N°)	(mm²)	(mm)	(mm)	(mm)	(kg/km)	(Ohm/km)	(A)
Single core							
1x	1.5	1.6	0.7	3.1	21	12.1	16
1x	2.5	2	0.8	3.75	33	7.41	21
1x	4	2.4	0.8	4.4	48	4.61	25
1x	6	3.1	0.8	4.9	66	3.08	36
1x	10	4.0	1	6.4	112	1.83	50
1x	16	4.8	1	7.4	167	1.15	68
1x	25	6.0	1.2	9.1	254	0.727	89
1x	35	7.0	1.2	10.35	340	0.524	110
1x	50	8.1	1.4	12.4	485	0.387	134
1x	70	9.7	1.4	13.6	674	0.268	171
1x	95	11.4	1.6	15.8	894	0.193	207
1x	120	13.1	1.6	17.4	1110	0.153	239
1x	150	14.6	1.8	19.8	1400	0.124	275
1x	185	16.5	2	21.6	1700	0.0991	314
1x	240	18.5	2.2	24.6	2230	0.0754	369
1x	300	21	2.4	27.7	2640	0.0601	425
1x	400	23.4	2.6	31.4	3240	0.0470	511

Current carrying capacities are calculated on a single circuit with 3 loaded conductors. Lay type: CEI 64-8 Tab 52.C (3-5-31-32-33-33-18)

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H05V2-K

Model Product: 258 - 20160412

Class 5 flexible copper conductor.
PVC insulation TI3 quality.

STANDARDS

CEI 20-20/7 (CENELEC HD 21.7 S2) BS 6004:2000 NF C 32-201-7 VDE 0281-7
CEI EN 60332-1-2(CEI 20-35/1-2) BS EN 60332-1-2 NF EN 60332-1-2 DIN EN 60332-1-2 (IEC 60227-3)

Accordingly to the standards BT 2014/35/UE- 2011/65/EU (RoHS 3)

FLEXIBLE CABLES WITHOUT SHEATH FOR SPECIAL 90°C INDOOR WIRING

Nominal voltage U0: 300 V

Nominal voltage U: 500 V

Test voltage: 2000 V

Maximun operating temperature: +90 °C

Maximun short circuit temperature: +160°C

Minimum installation and laying temperature: +5°C

Min. operating temperature (without mechanical shocks): -10°C

COMMON FEATURES

Fixed protected installation inside appliances and in, or on, lighting fittings. Suitable for installation in surface mounted or embedded conduits, only for signalling and control circuits. Maximum conductor temperature in normal use 90°C. Not to be used in contact with object higher then 85°C. Not suitable for fixed distribution system.

EMPLOYMENT

Minimum bending radius per D cable diameter (in mm):
Fixed lay::D<8=3D D<12=3D D>12=4D
Curve near terminal:D<8=2D D<12=3D D>12=4D

Maximum pulling stress: 50 N/mm2

PACKING

100mt. rings in thermoplastic film. Drums to agree.

CORE COLOURS

Single core: Black, light blue, brown, grey, orange, pink, red, touquoise, violet,white, Y/G.

MARKING ENGRAVING

GENERAL CAVI - IEMMEQU <HAR> - H05V2-K - year

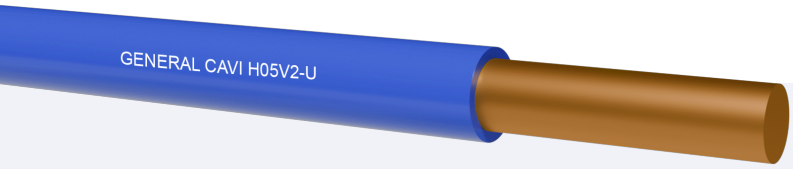
NOTE

Maximum storage temperature: +40°C

Conductor Number	Cross section	Maximum conductor diameter	Iinsulation thickness	External diameter		Electric resistance at 20°C	Approx cable weight	Current carrying capacities in air 30°C
				Minimum	maximum			
(N°)	(mm²)	(mm)	(mm)	(mm)	(mm)	(Ohm/km)	(kg/km)	(A)
Single core								
1x	0.5	0.90	0.6	2.1	2.5	39.0	9.0	3
1x	0.75	1.10	0.6	2.2	2.7	26.0	12.0	6
1x	1	1.30	0.6	2.4	2.8	19.5	14.0	10

H05V2-U

Model Product: 459 - 20160229



Rigid class 1 red copper conductor.
PVC insulation TI3 quality.

STANDARDS

CEI 20-20/7 (CENELEC HD 21.7 S2) BS 6004:2000 NF C 32-201-7 VDE 0281-7
CEI EN 60332-1-2(CEI 20-35/1-2) BS EN 60332-1-2 NF EN 60332-1-2 DIN EN 60332-1-2 (IEC 60227-3)

Accordingly to the standards BT 2014/35/UE- 2011/65/EU (RoHS 3)

RIGID SINGLE CORE WITHOUT SHEATH CABLES FOR SPECIAL 90°C INDOOR WIRING

Nominal voltage U0: 300 V

Nominal voltage U: 500 V

Test voltage: 2000 V

Maximun operating temperature: +90 °C

Maximun short circuit temperature: +160°C

Minimum installation and laying temperature: +5°C

Min. operating temperature (without mechanical shocks): -10°C

COMMON FEATURES

Fixed protected installation inside appliances and in, or on,lighting fittings. Suitable for installation in surface mounted or embedded conduits, only for signalling and control circuits. Maximum conductor temperature in normal use 90°C. Not to be used in contact with object higher then 85°C. Not suitable for fixed distribution system.

EMPLOYMENT

Minimum bending radius per D cable diameter (in mm):
Fixed lay:D<8=4D
Curve near terminal:D<8=2D

Maximum pulling stress: 50 N/mm2

PACKING

100mt. rings in thermoplastic film. Drums to agree.

CORE COLOURS

Single core: Black, light blue, brown, grey, orange, pink, red, touquoise, violet, white, Y/G.

MARKING ENGRAVING

GENERAL CAVI - IEMMEQU <HAR> - H05V2-U - year

NOTE

Maximum storage temperature: +40°C

Conductor Number	Cross section	Maximum conductor diameter	Iinsulation thickness	External diameter		Electric resistance at 20°C	Approx cable weight	Current carrying capacities in air 30°C
				Minimum	maximum			
(N°)	(mm²)	(mm)	(mm)	(mm)	(mm)	(Ohm/km)	(kg/km)	(A)
Single core								
1x	0.5	0.80	0.6	1.9	2.3	36.0	9.0	3
1x	0.75	1.00	0.6	2.1	2.5	24.5	12.0	6
1x	1	1.15	0.6	2.2	2.7	18.2	14.0	10

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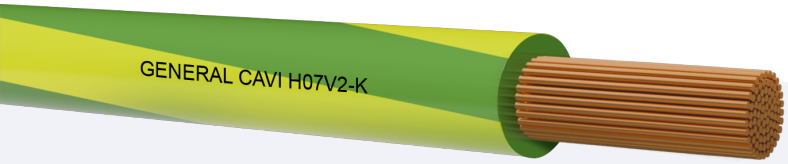
H07V2-K

Model Product: 227 - 20160412



Class 5 flexible copper conductor.
PVC insulation TI3 quality.

STANDARDS

CEI 20-20/7 (CENELEC HD 21.7 S2) BS 6004:2000 NF C 32-201-7 VDE 0281-7
CEI EN 60332-1-2(CEI 20-35/1-2) BS EN 60332-1-2 NF EN 60332-1-2 DIN EN 60332-1-2 (IEC 60227-3)

Accordingly to the standards BT 2014/35/UE- 2011/65/EU (RoHS 3)

COMMON FEATURES

Fixed protected installation inside appliances and in, or on, lighting fittings or controlgear for voltages up to 1000V a.c. or up to 750V d.c. to ground. Suitable for installation in surface mounted or embedded conduits, only for signalling and control circuits. Maximum conductor temperature in normal use 90°C. Not to be used in contact with object higher then 85°C. Not suitable for fixed distribution system, except where limited to a maximum conductor temperature of 70°C.

EMPLOYMENT

Minimum bending radius per D cable diameter (in mm):
Fixed lay:D<8=3D D<12=3D D>12=4D
Curve near terminal:D<8=2D D<12=3D D>12=4D

Maximum pulling stress: 50 N/mm2

PACKING

100mt. rings in thermoplastic film. Drums to agree.

FLEXIBLE CABLES WITHOUT SHEATH FOR SPECIAL 90°C INDOOR WIRING

Nominal voltage U0: 450 V
Nominal voltage U: 750 V
Maximun operating temperature: +90°C
Maximun short circuit temperature: +160°C
Minimum installation and laying temperature: +5°C
Min. operating temperature (without mechanical shocks): -10°C

CORE COLOURS

Single core: Black, light blue, brown, grey, orange, pink, red, touquoise, violet,white, Y/G.

INK MARKING

GENERAL CAVI - IEMMEQU <HAR> - H07V2-K - year

NOTE

Maximum storage temperature: +40°C

H07V2-K

Model Product: 227 - 20160412

Cores number	Cross section	Approx cond. diameter	Insulation medium thickness	Approx external production diameter	Elettric Resistace 20°C	Approx cable weight	Current carrying capacities 30°C
(N°)	(mmq)	(mm)	(mm)	(mm)	(Ohm/km)	(kg/km)	(A)
Single core							
1x	1.5	1.5	0.7	3.1	13.3	21	16
1x	2.5	2.0	0.8	3.75	7.98	33	20
1x	4	2.5	0.8	4.4	4.95	48	25
1x	6	3.0	0.8	4.9	3.30	66	48
1x	10	4.0	1.0	6.4	1.91	112	66
1x	16	5.0	1.0	7.4	1.21	167	88
1x	25	6.2	1.2	9.1	0.78	254	117
1x	35	7.4	1.2	10.35	0.554	340	144

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H07V2-R

Model Product: 461 - 20160412

Rigid class 2 red copper conductor.
PVC insulation TI3 quality.

STANDARDS

CEI 20-20/7(CENELEC HD 21.7 S3), BS 6004:2000 ,NF C 32-201-7 ,VDE 0281-7
CEI EN 60332-1-2(CEI 20-35/1-2) BS EN 60332-1-2, NF EN 60332-1-2 , DIN EN 60332-1-2 (IEC 60227-3)

Accordingly to the standards BT 2014/35/UE- 2011/65/EU (RoHS 3)

COMMON FEATURES

Fixed protected installation inside appliances and in, or on, lighting fittings or controlgear for voltages up to 1000V a.c. or up to 750V d.c. to ground. Suitable for installation in surface mounted or embedded conduits, only for signalling and control circuits. Maximum conductor temperature in normal use 90°C. Not to be used in contact with object higher then 85°C. Not suitable for fixed distribution system, except where limited to a maximum conductor temperature of 70°C.

EMPLOYMENT

Minimum bending radius per D cable diameter (in mm):
Fixed lay:D<8≤4D D<12≤5D D>12≤6D
Curve near terminal:D<8≤2D D<12≤3D D>12≤4D

Maximum pulling stress: 50 N/mm2

PACKING

100mt. rings in thermoplastic film or cardboard packagings

RIGID CABLES WITHOUT SHEATH FOR SPECIAL 90°C INDOOR WIRING

Nominal voltage U0: 450 V
Nominal voltage U: 750 V
Test voltage: 2500 V
Maximun operating temperature: +90 °C
Maximun short circuit temperature: +160°C
Minimum installation and laying temperature: +5°C
Min. operating temperature (without mechanical shocks): -10°C

CORE COLOURS

Single core: Black, light blue, brown, grey, orange, pink, red, touquoise, violet,white, Y/G.

MARKING ENGRAVING

GENERAL CAVI - IEMMEQU <HAR> - year

NOTE

Maximum storage temperature: +40°C.

H07V2-R

Model Product: 461 - 20160412

Conductor Number	Nominal Section	Approx cond. diameter	Approx external production diameter	Elettric Resistace 20°C	Approx cable weight	Current carrying capacities 30°C
(N°)	(mmq)	(mm)	(mm)	(Ohm/km)	(kg/km)	(A)
Single core						
1x	1.5	1.7	3.1	12.1	21	16
1x	2.5	2.2	3.75	7.41	33	20
1x	4	2.7	4.4	4.61	48	25
1x	6	3.3	4.9	3.08	66	48
1x	10	4.2	6.4	1.83	112	66
1x	16	5.3	7.4	1.15	167	88
1x	25	6.6	9.1	0.727	254	117
1x	35	7.9	10.35	0.524	340	144

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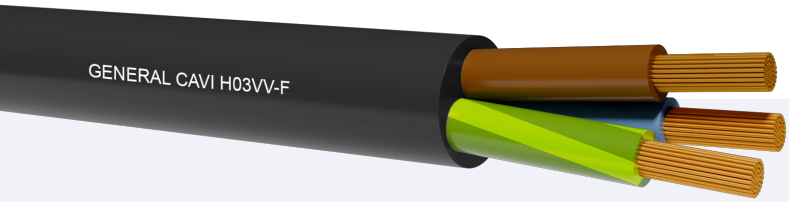
Catalogo prodotti da costruzione CPR UE305/2011

H03VV-F

CPR Eca

Model Product: 205-206 - 20180212



Class 5 flexible copper conductor.
PVC Insulation in TI2 quality.
PVC sheath in TM2 quality.

STANDARDS

CEI EN 50525-2-11 CEI 20-20/5 (CENELEC HD 21.5 S3) BS 6500:2000 NF C 32-201-5 VDE 0281-5
EN 50575:2014 + EN 50575/A1:2016

Accordingly to the standards BT 2014/35/UE- 2011/65/EU (RoHS 3)

COMMON FEATURES

This cable is suitable for house rooms, kitchens, offices, subjected at weak mechanical stresses; for supply of little and portable household appliances like:
- radio;
- lighting appliances for table or with stand;
- office machines.

Cables light underseath can be used when it is required a great flexibility but wi thout particular mechanical damagement risks. 0.75mm² cross section have the same features as medium undersheath cables.A system exercice voltage can always overflow the 10% of its standard voltage.Supply of electricity and communications in buildings and other civil engineering works with the objective of limiting the generation and spread of fire and smoke.

EMPLOYMENT

Minimum bending radius per D cable diameter (in mm):
Fixed lay:D<8=3D D<12=3D D>12=4D
Free move :D<8=5D D<12=5D D>12=6D

Maximum pulling stress: 15 N/mm2

PACKING

100m rings in thermoplastic film or drums to agree.

MOBILE SERVICE CABLE FOR LITTLE AND PORTABLE HOUSEHOLD APPLIANCE

Nominal voltage U0: 300 V
Nominal voltage U: 300 V
Maximun operating temperature: + 60°C
Maximun short circuit temperature: +150°C
Minimum installation and laying temperature: +5°C
Min. operating temperature (without mechanical shocks): -10°C

CORE COLOURS

Two cores: blue-brown

Three cores: brown-black-gray (or blue-brown-Y/G)

Four cores: blue-brown-black-gray (or Y/G instead blue)

Five cores: Y/G-blue-brown-black-gray (or black instead Y/G)

SHEATH COLOUR

Black, white, grey.

MARKING ENGRAVING

GENERAL CAVI -Eca- IEMMEQU <HAR> - year

H03VV-F

CPR Eca

Model Product: 205-206 - 20180212

Conductor Number	Nominal Section	Approx cond. diameter	Iinsulation thickness	MAXIMUM external diameter	Approx cable weight	Electric resistance at 20°C	Current carrying capacities 30°C
(N°)	(mmq)	(mm)	(mm)	(mm)	(kg/km)	(Ohm/km)	(A)
Two cores							
2x	0.5	0.9	0.5	5.9	34	39.0	3
2x	0.75	1	0.5	6.3	42	26.0	6
Three cores							
3G	0.5	0.9	0.5	6.3	41	39.0	3
3G	0.75	1	0.5	6.7	51	26.0	6
Four cores							
4G	0.5	0.9	0.5	6.9	49	39.0	3
4G	0.75	1	0.5	7.3	62	26.0	6

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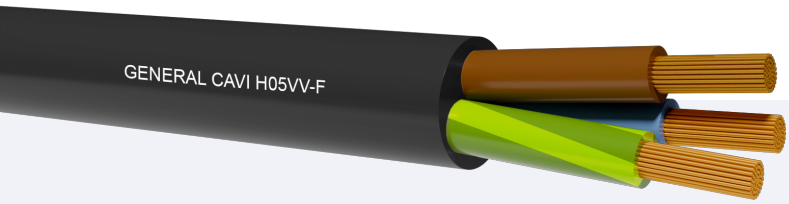
Catalogo prodotti da costruzione CPR UE305/2011

H05VV-F

CPR Eca

Model Product: 203-207 - 20210331



Class 5 flexible copper conductor.
PVC Insulation in TI2 quality.
PVC sheath in TM2 quality.

STANDARDS

CEI EN 50525-2-11 CEI 20-20/5 (CENELEC HD 21.5 S3) BS 6500:2000 NF C 32-201-5 VDE 0281-5
EN 50575:2014 + EN 50575/A1:2016 IEC 60332-1-2

Accordingly to the standards BT 2014/35/UE- 2011/65/EU (RoHS 3)

COMMON FEATURES

This cable is suitable for house rooms, kitchens, offices, subjected at medium mechanical stresses; for supply of household appliances even damp, like:
- washing machine
- dish-washer
- refrigerating

Cable suitable for heating ond cooking appliances, but there must be no contacts with warm parts. Not suitable for external laying, industrial and agricultural environments and for not-portable household utensils.For electrical power system in constructions alnd other civil engineering bulginngs,in order to limit fire and smoke production and spread,in accordance with the CPR.

EMPLOYMENT

Minimum bending radius per D cable diameter (in mm):
Fixed lay:D<8=3D D<12=3D D>12=4D
Free move :D<8=5D D<12=5D D>12=6D

Maximum pulling stress: 15 N/mm²

PACKING

100m rings in thermoplastic film or drums to agree.

MOBILE SERVICE CABLE FOR MEDIUM MECHANICAL STRESSES

Nominal voltage U0: 300 V
Nominal voltage U: 500 V
Test voltage: 2000 V
Maximun operating temperature: +60°C
Maximun short circuit temperature: +150°C
Minimum installation and laying temperature: +5°C
Min. operating temperature (without mechanical shocks): -10°C

CORE COLOURS

Two cores: blue-brown

Three cores: brown-black-gray (or blue-brown-Y/G)

Four cores: blue-brown-black-gray (or Y/G instead blue)

Five cores: Y/G-blue-brown-black-gray (black no Y/G);

SHEATH COLOUR

Black, white, grey.

MARKING ENGRAVING

GENERAL CAVI -Eca- IEMMEQU <HAR> - year

NOTE

In according with HD 308 only for specific installation four cores G/Y blue brown black

H05VV-F

CPR Eca

Model Product: 203-207 - 20210331

Cores number	Cross section	Approx conductor diameter	Insulation medium thickness	Approx external production diameter	Approx cable weight	Electric resistance at 20°C	Current carrying air free 30°C(mobile pose)
(N°)	(mm²)	(mm)	(mm)	(mm)	(kg/km)	(Ohm/km)	(A)
Two cores							
2x	0.75	1.1	0.6	7.2	53	26	6
2x	1	1.3	0.6	7.3	61	19.5	10
2x	1.5	1.6	0.7	7.83	81	13.3	16
2x	2.5	2	0.8	9.5	125	7.98	20
2x	4	2.5	0.8	10.8	173	4.95	25
2x	6*	3.4	0.9	12.3	227	3.3	35
Three cores							
3G	0.75	1.1	0.6	7.0	63	26	6
3G	1	1.3	0.6	7.6	73	19.5	10
3G	1.5	1.6	0.7	8.55	100	13.3	16
3G	2.5	2	0.8	9.58	157	7.98	20
3G	4	2.6	0.8	11.66	216	4.95	25
3G	6*	3.4	0.9	12.88	298	3.3	35
Four cores							
4G	0.75	1.1	0.6	8.3	76	26	6
4G	1	1.3	0.6	9.0	91	19.5	10
4G	1.5	1.6	0.7	9.65	127	13.3	16
4G	2.5	2	0.8	11.58	191	7.98	20
4G	4	2.6	0.8	12.99	265	4.95	25
4G	6*	3.4	0.9	14.44	305	3.3	35
Five cores							
5G	0.75	3.4	0.6	9.3	96	26	6
5G	1	1.3	0.6	9.8	110	19.5	10
5G	1.5	1.6	0.7	10.75	160	13.3	16
5G	2.5	2	0.8	12.78	238	7.98	20
5G	4	2.6	0.8	14.89	340	4.95	25
5G	6*	3.4	0.9	16.12	470	3.3	35

Current carrying capacities for four-cores cables are calculated relatively to piping with 3 loaded conductors.The sections marked with (*)05VV-F not subject to the IMQ HAR mark, but comply with EU Regulation 305/11 (CPR)

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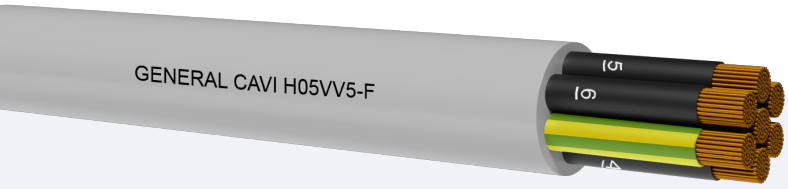
H05VV5-F

Model Product: 254-255 - 20160412



Class 5 flexible copper conductor.
PVC Insulation in TI2 quality.
PVC sheath in TM5 quality.

STANDARDS

CEI EN 50525-2-51 BS EN 50525-2-51 NF EN 50525-2-51 VDE 0285-525-2-51 :2012-01
CEI EN 60332-1-2(CEI 20-35/1-2) BS EN 60332-1-2 NF EN 60332-1-2 DIN EN 60332-1-2 (IEC 60227-5)

Accordingly to the standards BT 2014/35/UE- 2011/65/EU (RoHS 3)

COMMON FEATURES

Interconnection between sides of machinery in construction included the tool machines . The cable can be moved once installed, particularly for the repositioning, the maintenance, the regulation, and the control of the machines, the cable is on condition that not sped up mechanically during the movement. The cables are resistant to mineral oils of general use but they are not planned for the continuous immersion in the oil. They're destined to the internal use of the buildings. The contamination by means of hydrocarbons, acids and alkali must be avoided. The cables must be protect against the mechanical damages. When the movement of the cables is not required during the use, we advise to install them in culverts, channels etc. When the contact with special oils is probable, please contact us at our technical offices.A system exercice voltage can always overflow the 10% of its standard voltage.

EMPLOYMENT

Minimum bending radius per D cable diameter (in mm):
Fixed lay:D<8=3D D<12=3D D>12=4D
Free move :D<8=5D D<12=5D D>12=6D

Maximum pulling stress: 50 N/mm2

PACKING

100m rings in thermoplastic film or drums to agree.

CABLE WITH OIL RESISTANT PVC SHEATH

Nominal voltage U0: 300 V
Nominal voltage U: 500 V
Test voltage: 2000 V
Maximun operating temperature: +60°C
Maximun short circuit temperature: +150°C
Minimum installation and laying temperature: +5°C
Min. operating temperature (without mechanical shocks): -10°C

CORE COLOURS

Two cores: black with numbers

Three cores: black with numbers and Y/G

Four cores: black with numbers and Y/G

Five cores: black with numbers and Y/G

Multicores: black with numbers and Y/G

SHEATH COLOUR

Gray (on request Black and White)

INK MARKING

GENERAL CAVI - IEMMEQU <HAR> - H05VV5-F - year

H05VV5-F

Model Product: 254-255 - 20160412

Cores number	Cross section	Approx conductor diameter	Iinsulation thickness	External diameter		Electric resistance at 20°C	Approx cable weight	Current carrying capacities 30°C
				Minimum	maximum			
(N°)	(mm²)	(mm)	(mm)	(mm)	(mm)	(Ohm/km)	(kg/km)	(A)
Two cores								
2x	0.5	0.9	0.6	5.2	6.6	39.0	46	7.6
2x	0.75	1.1	0.6	5.7	7.2	26.0	55	12.0
2x	1	1.3	0.6	5.9	7.5	19.5	65	15.2
2x	1.5	1.5	0.7	6.8	8.6	13.3	84	19.2
2x	2.5	2.0	0.8	8.2	10.3	7.98	130	25.6
Three cores								
3G	0.5	0.9	0.6	5.5	7.0	39.0	52	7.6
3G	0.75	1.1	0.6	6.0	7.6	26.0	63	12.0
3G	1	1.3	0.6	6.3	8.0	19.5	75	15.2
3G	1.5	1.5	0.7	7.4	9.4	13.3	103	19.2
3G	2.5	2.0	0.8	9.2	11.4	7.98	161	25.6
Four cores								
4G	0.5	0.9	0.6	6.2	7.9	39.0	66	6.8
4G	0.75	1.1	0.6	6.6	8.3	26.0	78	10.5
4G	1	1.3	0.6	6.9	8.7	19.5	91	13.3
4G	1.5	1.5	0.7	8.2	10.2	13.3	127	16.8
4G	2.5	2.0	0.8	10.1	12.5	7.98	193	22.4
Five cores								
5G	0.5	0.9	0.6	6.8	8.6	39.0	80	6.7
5G	0.75	1.1	0.6	7.4	9.3	26.0	98	10.5
5G	1	1.3	0.6	7.8	9.8	19.5	114	13.3
5G	1.5	1.5	0.7	9.1	11.4	13.3	159	16.8
5G	2.5	2.0	0.8	11.2	13.9	7.98	240	22.4
Multicores								
7G	0.5	0.9	0.6	8.3	10.4	39.0	114	5.4
7G	0.75	1.1	0.6	9.0	11.3	26.0	144	9.0
7G	1	1.3	0.6	9.5	11.8	19.5	165	10.8
7G	1.5	1.5	0.7	11.3	14.1	13.3	233	13.7
7G	2.5	2.0	0.8	13.6	16.8	7.98	341	18.2
12G	0.5	0.9	0.6	10.4	12.9	39.0	170	4.3
12G	0.75	1.1	0.6	11.0	13.7	26.0	205	6.8
12G	1	1.3	0.6	11.8	14.6	19.5	245	8.6
12G	1.5	1.5	0.7	13.8	17.0	13.3	340	10.8
12G	2.5	2.0	0.8	16.8	20.6	7.98	520	14.4
18G	0.5	0.9	0.6	12.3	15.3	39.0	245	3.7

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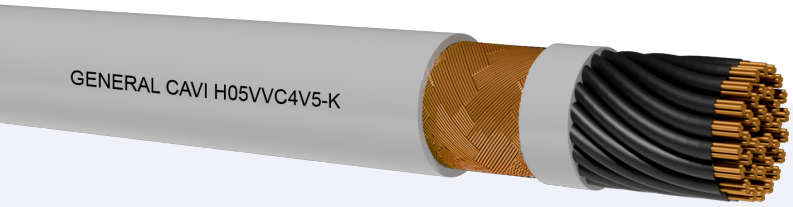
H05VV5-F

Model Product: 254-255 - 20160412

Cores number	Cross section	Approx conductor diameter	Iinsulation thickness	External diameter		Electric resistance at 20°C	Approx cable weight	Current carrying capacities 30°C
				Minimum	maximum			
(N°)	(mm²)	(mm)	(mm)	(mm)	(mm)	(Ohm/km)	(kg/km)	(A)
18G	0.75	1.1	0.6	13.2	16.4	26.0	310	5.9
18G	1	1.3	0.6	14.0	17.2	19.5	370	7.4
18G	1.5	1.5	0.7	16.5	20.3	13.3	520	9.4
18G	2.5	2.0	0.8	20.2	24.8	7.98	785	12.5
27G	0.5	0.9	0.6	15.1	18.6	39.0	365	3.2
27G	0.75	1.1	0.6	16.2	19.9	26.0	450	5.1
27G	1	1.3	0.6	17.0	21.0	19.5	533	6.5
27G	1.5	1.5	0.7	20.3	24.9	13.3	744	8.2
27G	2.5	2.0	0.8	24.7	30.2	7.98	1206	10.9

H05VVC4V5-K

Model Product: 233-234 - 20160412



Class 5 flexible copper conductor.
PVC Insulation in TI2 quality.
PVC filler in TM5 quality.
shield made by braid of red or tinned wires copper.
PVC sheath in TM5 quality.

STANDARDS

CEI EN 50525-2-51 BS EN 50525-2-51 NF EN 50525-2-51 VDE 0285-525-2-51 :2012-01
CEI EN 60332-1-2(CEI 20-35/1-2) BS EN 60332-1-2 NF EN 60332-1-2 DIN EN 60332-1-2 (IEC 60227-5)

Accordingly to the standards BT 2014/35/UE- 2011/65/EU (RoHS 3)

COMMON FEATURES

Interconnection between sides of machinery in construction included the tool machines where a good protection against electromagnetic interference is required. The cable can be moved once installed, particularly for the repositioning, the maintenance, the regulation, and the control of the machines, the cable is on condition that not sped up mechanically during the movement. The cables are resistant to mineral oils of general use but they are not planned for the continuous immersion in the oil. They're destined to the internal use of the buildings. The contamination by means of hydrocarbons, acids and alkali must be avoided. The cables must be protect against the mechanical damages. When the movement of the cables is not required during the use, we advise to install them in culverts, channels etc. When the contact with special oils is probable, please contact us at our technical offices.A system exercice voltage can always overflow the 10% of its standard voltage.

EMPLOYMENT

Minimum bending radius per D cable diameter (in mm): 8D

Maximum pulling stress: 50 N/mm²

PACKING

100m rings in thermoplastic film or drums to agree.

SHIELDED CABLE WITH OIL RESISTANT PVC SHEATH

Nominal voltage U0: 300 V

Nominal voltage U: 500 V

Test voltage: 2000 V

Maximun operating temperature: +60°C

Maximun short circuit temperature: +150°C

Minimum installation and laying temperature: +5°C

Min. operating temperature (without mechanical shocks): -10°C

CORE COLOURS

Two cores: blue-brown

Three cores: Brown - Black - Gray (o Y/G, Blue and Brown)

Four cores: blue-brown-black-gray (or Y/G instead blue)

Five cores: Y/G-blue-brown-black-gray (black no Y/G)

Multicores: black with numbers and Y/G

SHEATH COLOUR

Black, white, grey.

INK MARKING

GENERAL CAVI - IEMMEQU <HAR> - H05VVC4V5-K - year

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H05VVC4V5-K

Model Product: 233-234 - 20160412

Cores number	Cross section	Approx conductor diameter	Iinsulation thickness	External diameter		Electric resistance at 20°C	Approx cable weight	Current carrying capacities 30°C
				Minimum	maximum			
(N°)	(mm²)	(mm)	(mm)	(mm)	(mm)	(Ohm/km)	(kg/km)	(A)
Two cores								
2x	0.5	0.9	0.6	7.7	9.6	39.0	91	7.6
2x	0.75	1.1	0.6	8.0	10.0	26.0	97	12.0
2x	1	1.3	0.6	8.2	10.3	19.5	114	15.2
2x	1.5	1.5	0.7	9.3	11.6	13.3	140	19.2
2x	2.5	2.0	0.8	10.7	13.3	7.98	181	25.6
Three cores								
3G	0.5	0.9	0.6	8.0	10.0	39.0	98	7.6
3G	0.75	1.1	0.6	8.3	10.4	26.0	115	12.0
3G	1	1.3	0.6	8.8	11.0	19.5	130	15.2
3G	1.5	1.5	0.7	9.7	12.1	13.3	159	19.2
3G	2.5	2.0	0.8	11.3	14.0	7.98	225	25.6
Four cores								
4G	0.5	0.9	0.6	8.5	10.7	39	110	6.8
4G	0.75	1.1	0.6	9.1	11.3	26	141	10.5
4G	1	1.3	0.6	9.4	11.7	19.5	159	13.3
4G	1.5	1.5	0.7	10.7	13.2	13.3	210	16.8
4G	2.5	2.0	0.8	12.6	15.5	7.98	251	22.4
Five cores								
5G	0.5	0.9	0.6	9.3	11.6	39.0	144	6.7
5G	0.75	1.1	0.6	9.7	12.1	26.0	161	10.5
5G	1	1.3	0.6	10.3	12.8	19.5	187	13.3
5G	1.5	1.5	0.7	11.8	14.7	13.3	244	16.8
5G	2.5	2.0	0.8	13.9	17.2	7.98	336	22.4
Multicores								
7G	0.5	0.9	0.6	10.8	13.5	39.0	199	5.4
7G	0.75	1.1	0.6	11.5	14.3	26.0	236	9.0
7G	1	1.3	0.6	12.2	15.1	19.5	270	10.8
7G	1.5	1.5	0.7	14.1	17.4	13.3	340	13.7
7G	2.5	2.0	0.8	16.5	20.3	7.98	495	18.2
12G	0.5	0.9	0.6	13.3	16.5	39.0	277	4.3
12G	0.75	1.1	0.6	13.9	17.2	26.0	320	6.8
12G	1	1.3	0.6	14.7	18.1	19.5	365	8.6
12G	1.5	1.5	0.7	16.7	20.5	13.3	492	10.8
12G	2.5	2.0	0.8	19.9	24.4	7.98	691	14.4
18G	0.5	0.9	0.6	15.1	18.6	39.0	366	3.7

H05VVC4V5-K

Model Product: 233-234 - 20160412

Cores number	Cross section	Approx conductor diameter	Iinsulation thickness	External diameter		Electric resistance at 20°C	Approx cable weight	Current carrying capacities 30°C
				Minimum	maximum			
(N°)	(mm²)	(mm)	(mm)	(mm)	(mm)	(Ohm/km)	(kg/km)	(A)
18G	0.75	1.1	0.6	16.2	19.9	26.0	449	5.9
18G	1	1.3	0.6	16.9	20.8	19.5	522	7.4
18G	1.5	1.5	0.7	19.6	24.1	13.3	694	9.4
18G	2.5	2.0	0.8	23.3	28.5	7.98	1001	12.5
27G	0.5	0.9	0.6	18.0	22.1	39.0	550	3.2
27G	0.75	1.1	0.6	19.3	23.7	26.0	688	5.1
27G	1	1.3	0.6	20.2	24.7	19.5	760	6.5
27G	1.5	1.5	0.7	23.4	28.6	13.3	1023	8.2
27G	2.5	2.0	0.8	28.2	34.5	7.98	1522	10.9

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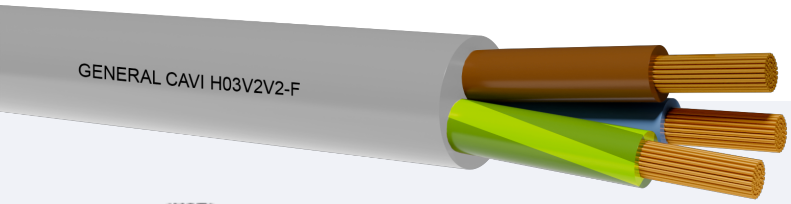
H03V2V2-F

Model Product: 286 - 20160412



Class 5 flexible copper conductor.
Special 90°C thermoplastic compounds insulation.
Special 90°C thermoplastic compounds sheath.

STANDARDS

CEI 20-20/12 (CENELEC HD 21.12 S1) BS 6500:2000 NF C 32-201-12 VDE 0281-12
CEI EN 60332-1-2(CEI 20-35/1-2) BS EN 60332-1-2 NF EN 60332-1-2 DIN EN 60332-1-2

Accordingly to the standards BT 2014/35/UE- 2011/65/EU (RoHS 3)

COMMON FEATURES

Suitable for domestic premises, kitchen, office for light service or light portable apparatuses. In atmospheres to high temperatures. Inside equipements. With their special insulation and sheath compounds this cable is adapt for apparatus in kitchen and heating and for use in zones with high temperatures (like lighting system apparatuses) without contact with warm parts and radiations. Unsuitable for outdoor use, in industrial and agricultural buildings or non-domestic portable tools. The maximum conductor temperature in normal use: 90°C. While high temperature use, skin contact must be avoided.

EMPLOYMENT

Minimum bending radius per D cable diameter (in mm): 6D

Maximum pulling stress: 15 N/mm²

PACKING

100mt. rings in thermoplastic film. Drums to agree.

FLEXIBLE CABLES PVC INSULATED HEAT RESISTANT UP TO 90°C

Nominal voltage U0: 300 V
Nominal voltage U: 300 V
Test voltage: 2000 V
Maximun operating temperature: +90°C
Maximun short circuit temperature: +150°C
Minimum installation and laying temperature: +5°C
Min. operating temperature (without mechanical shocks): -10°C

CORE COLOURS

Two cores: blue-brown

Three cores: Brown - Black - Gray (o Y/G, Blue and Brown)

Four cores: blue-brown-black-gray (or Y/G instead blue)

SHEATH COLOUR

Black, white, grey.

INK MARKING

year GENERAL CAVI - IEMMEQU <HAR> - H03V2V2-F - form x sect.

H03V2V2-F

Model Product: 286 - 20160412

Conductor Number	Cross section	Approx conductor diameter	Iinsulation thickness	Approx external production diameter	Approx cable weight	Electric resistance at 20°C	Current carrying capacities 30°C
(N°)	(mm²)	(mm)	(mm)	(mm)	(kg/km)	(Ohm/km)	(A)
Two cores							
2x	0.5	0.9	0.5	5.9	34	39.0	3
2x	0.75	1	0.5	6.3	42	26.0	6
Three cores							
3G	0.5	0.9	0.5	6.3	41	39.0	3
3G	0.75	1	0.5	6.7	51	26.0	6
Four cores							
4G	0.5	0.9	0.5	6.9	49	39.0	3
4G	0.75	1	0.5	7.3	62	26.0	6

The values of permissible current are applied to the most cases. Further information must be serched for unusual situations, like: High ambient temperatures like over 30°C for large cable lenght or low ventilation.

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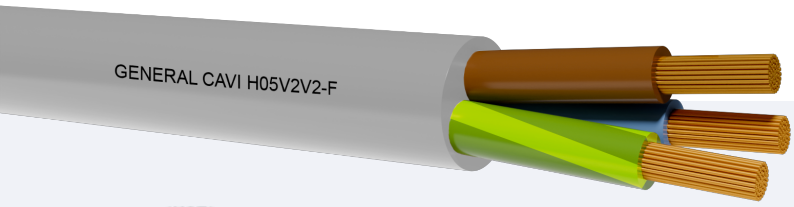
H05V2V2-F

Model Product: 247-249 - 20160412



Class 5 flexible copper conductor.
Special 90°C thermoplastic compounds insulation.
Special 90°C thermoplastic compounds sheath.

STANDARDS

CEI 20-20/12 (CENELEC HD 21.12 S1) BS 6500:2000 NF C 32-201-12 VDE 0281-12
CEI EN 60332-1-2(CEI 20-35/1-2) BS EN 60332-1-2 NF EN 60332-1-2 DIN EN 60332-1-2

Accordingly to the standards BT 2014/35/UE- 2011/65/EU (RoHS 3)

COMMON FEATURES

Suitable for domestic premises, kitchen, office for light service or light portable apparatuses. In atmospheres to high temperatures. Inside equipements. With their special insulation and sheath compounds this cable is adapt for apparatus in kitchen and heating and for use in zones with high temperatures (like lighting system apparatuses) without contact with warm parts and radiations. Unsuitable for outdoor use, in industrial and agricultural buildings or non-domestic portable tools. The maximum conductor temperature in normal use: 90°C. While high temperature use, skin contact must be avoided.

EMPLOYMENT

Minimum bending radius per D cable diameter (in mm): 6D

Maximum pulling stress: 15 N/mm²

PACKING

100mt. rings in thermoplastic film.Drums to agree.

FLEXIBLE CABLES PVC INSULATED HEAT RESISTANT UP TO 90°C

Nominal voltage U0: 300 V
Nominal voltage U: 500 V
Test voltage: 2000 V
Maximun operating temperature: +90°C
Maximun short circuit temperature: +150°C
Minimum installation and laying temperature: +5°C
Min. operating temperature (without mechanical shocks): -10°C

CORE COLOURS

Two cores: blue-brown

Three cores: Brown - Black - Gray (o Y/G, Blue and Brown)

Four cores: blu-marrone-nero-grigio (o G/V al posto del blu)

Five cores: Y/G-blue-brown-black-gray (black no Y/G)

SHEATH COLOUR

Black, white, grey.

INK MARKING

year GENERAL CAVI - IEMMEQU <HAR> - H05V2V2-F - form x sect.

H05V2V2-F

Model Product: 247-249 - 20160412

Cores number	Cross section	Approx conductor diameter	Insulation medium thickness	Approx external production diameter	Approx cable weight	Electric resistance at 20°C	Current carrying capacities 30°C Mobile Service
(N°)	(mm²)	(mm)	(mm)	(mm)	(kg/km)	(Ohm/km)	(A)
Two cores							
2x	0.75	1.1	0.6	7.2	53	26.0	6
2x	1	1.3	0.6	7.3	61	19.5	12.5
2x	1.5	1.6	0.7	7.83	81	13.3	17
2x	2.5	2	0.8	9.5	125	7.98	22.5
2x	4	2.5	0.8	12.1	173	4.95	30
Three cores							
3G	0.75	1.1	0.6	7.6	63	26.0	6
3G	1	1.3	0.6	7.6	73	19.5	12.5
3G	1.5	1.6	0.7	8.55	100	13.3	17
3G	2.5	2	0.8	9.58	157	7.98	22.5
3G	4	2.6	0.8	11.66	216	4.95	30
Four cores							
4G	0.75	1.1	0.6	8.3	76	26.0	40
4G	1	1.3	0.6	9.0	91	19.5	12.5
4G	1.5	1.6	0.7	9.65	127	13.3	17
4G	2.5	2	0.8	11.58	191	7.98	22.5
4G	4	2.6	0.8	12.99	265	4.95	30
Five cores							
5G	0.75	3.4	0.6	9.3	96	26.0	40
5G	1	1.3	0.6	9.8	110	19.5	12.5
5G	1.5	1.6	0.7	10.75	160	13.3	17
5G	2.5	2	0.8	12.78	238	7.98	22.5
5G	4	2.6	0.8	14.89	340	4.95	30

The values of permissible current are applied to the most cases. Further information must be serched for unusual situations, like: High ambient temperatures like over 30°C for large cable lenght or low ventilation.

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H05Z-K

CPR Eca

Model Product: 246 - 20210324

Class 5 flexible copper conductor.
RUBBER insulation EI5 quality.

STANDARDS

CEI EN 50525-3-41 CEI 20-19/9 (CENELEC HD 22.9 S3) BS EN 50525-3-41 NF C 32-102-9 VDE 0282-9 (IEC 60227-3)EN 50575:2014 + EN 50575/A1:2016

Accordingly to the standards BT 2014/35/UE- 2011/65/EU (RoHS 3)

FLEXIBLE SINGLE CORE WITHOUT SHEATH CABLES FOR FIXED WIRING WITH LOW SMOKE AND CORROSIVE GAS EMISSION L.S.0.H.

Nominal voltage U0: 300 V
Nominal voltage U: 500 V
Test voltage: 2000 V
Maximun operating temperature: +90°C
Maximun short circuit temperature: +250°C
Minimum installation and laying temperature: -5°C
Min. operating temperature (without mechanical shocks): -20°C

COMMON FEATURES

Supply of electricity and communications in buildings and other civil engineering works with the objective of limiting the generation and spread of fire and smoke. This cable is particulary suited in high fire risk places containing a great number of people (like office, data processing centres, schools, hotels, supermarkets,
undergrounds, hospitals, cinemas, theatres, discos). Suitable for fixed lay in pipe, cable-carrier channels, inner wiring of electric switchboards inside interruption and control equipements.

EMPLOYMENT

Minimum bending radius per D cable diameter (in mm):
Fixed lay=3D
Curving taken care of in proximity of finishes them=4D

Maximum pulling stress: 50 N/mm2

PACKING

100mt. rings in thermoplastic film.Drums to agree.

CORE COLOURS

Single core: It's allowed the suitable single colours:Black, light blue, brown, grey, orange, pink, red, touquoise, violet, white, green and yellow. It's allowed all bicolour combinations of that colours.

MARKING ENGRAVING

GENERAL CAVI -Eca- H05Z-K IMMEQU <HAR> - year

NOTE

Maximum storage temperature: +40°C
CEI 20-40 "Guide to use of low-voltage cables
The colors distribution of Y / G has to follow what is indicated in CEI EN 50525-1 5.4.4, the use of yellow or green in some countries may be prohibited or restricted by regulations or other national security. In some countries the use of green is allowed especially for decorative chains.

H05Z-K

CPR Eca

Model Product: 246 - 20210324

Conductor Number	Cross section	Maximum conductor diameter	Iinsulation thickness	External diameter		Electric resistance at 20°C	Approx cable weight	Current carrying capacities in air 30°C
				Minimum	maximum			
(N°)	(mm²)	(mm)	(mm)	(mm)	(mm)	(Ohm/km)	(kg/km)	(A)
Single core								
1x	0.5	0.77	0.6	2.1	2.6	39.0	9.0	3
1x	0.75	0.95	0.6	2.2	2.8	26.0	12.0	6
1x	1	1.30	0.6	2.4	2.9	19.5	14.0	10

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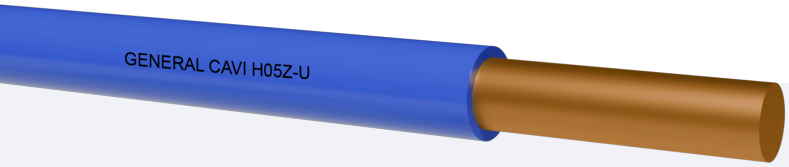
H05Z-U

Model Product: 239 - 20160412



Rigid class 1 red copper conductor.
RUBBER insulation EI5 quality.

STANDARDS

CEI EN 50525-3-41 CEI 20-19/9 CENELEC HD 22.9 S2 BS EN 50525-3-41 NF C 32-102-9 VDE 0282-9
CEI EN 60332-1-2 BS EN 60332-1-2 NF EN 60332-1-2 DIN EN 60332-1-2
CEI EN 50267-2-1 CEI EN 50267-2-2 CEI EN 60684-2 CEI EN 61034-2 (IEC 60227-3)

Accordingly to the standards BT 2014/35/UE- 2011/65/EU (RoHS 3)

COMMON FEATURES

This cable is particulary suited in high fire risk places containing a great number of people (like office, data processing centres, schools, hotels, supermarkets, undergrounds, hospitals, cinemas, theatres, discos). Suitable for fixed lay in pipe, cable-carrier channels, inner wiring of electric switchboards inside interruption and control equipements.

EMPLOYMENT

Minimum bending radius per D cable diameter (in mm):
Fixed lay=4D
Curving taken care of in proximity of finishes them=2D

Maximum pulling stress: 50 N/mm2

PACKING

100mt. rings in thermoplastic film. Drums to agree.

RIGID SINGLE CORE WITHOUT SHEATH CABLES FOR FIXED WIRING WITH LOW SMOKE AND CORROSIVE GAS EMISSION L.S.0.H.

Nominal voltage U0: 300 V
Nominal voltage U: 500 V
Test voltage: 2000 V
Maximun operating temperature: +90°C
Maximun short circuit temperature: +250°C
Minimum installation and laying temperature: -5°C
Min. operating temperature (without mechanical shocks): -20°C

CORE COLOURS

Single core: It's allowed the suitable single colours:Black, light blue, brown, grey, orange, pink, red, touquoise, violet, white, green and yellow. It's allowed all bicolour combinations of that colours.

MARKING ENGRAVING

GENERAL CAVI - H05Z-U - year

NOTE

Maximum storage temperature: +40°C
CEI 20-40 "Guide to use of low-voltage cables
The colors distribution of Y / G has to follow what is indicated in CEI EN 50525-1 5.4.4, the use of yellow or green in some countries may be prohibited or restricted by regulations or other national security. In some countries the use of green is allowed especially for decorative chains.

H05Z-U

Model Product: 239 - 20160412

Conductor Number	Cross section	Maximum conductor diameter	Iinsulation thickness	External diameter		Electric resistance at 20°C	Approx cable weight	Current carrying capacities in air 30°C
				Minimum	maximum			
(N°)	(mm²)	(mm)	(mm)	(mm)	(mm)	(Ohm/km)	(kg/km)	(A)
Single core								
1x	0.5	0.8	0.6	1.9	2.4	36.0	9.0	3
1x	0.75	1.0	0.6	2.1	2.5	24.5	12.0	6
1x	1	1.15	0.6	2.2	2.8	18.1	14.0	10

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H07Z-K

CPR Eca

Model Product: 248 - 20210324

Class 5 flexible copper conductor.
RUBBER insulation EI5 quality.

STANDARDS

CEI EN 50525-3-41 CEI 20-19/9 (CENELEC HD 22.9 S3) BS EN 50525-3-41 NF C 32-102-9 VDE 0282-9
EN 50575:2014 + EN 50575/A1:2016

Accordingly to the standards BT 2014/35/UE- 2011/65/EU (RoHS 3)

COMMON FEATURES

This cable is particulary suited in high fire risk places containing a great number of people (like offices, data processing centres, schools, hotels, supermarket, undergrounds, hospitals, cinemas, theaters, discos). Suitable for fixed lay, in pipe, cable-carrier channels, inner wiring of electric switchboards, inside interruption and control equipments for voltage until 1000V in c.a. and 750V d.c. to the ground.Supply of electricity and communications in buildings and other civil engineering works with the objective of limiting the generation and spread of fire and smoke.

EMPLOYMENT

Minimum bending radius per D cable diameter (in mm):
Fixed lay:D<8=3D D<12=3D D>12=4D
Curve near terminal:D<8=2D D<12=3D D>12=4D

Maximum pulling stress: 50 N/mm2

PACKING

100mt. rings in thermoplastic film or drums to agree.

INDOOR LAYING CABLE WITH LOW EMISSION OF OPAQUE FUMES AND TOXIC CORROSIVE GASES

Nominal voltage U0: 450 V
Nominal voltage U: 750 V
Test voltage: 2500 V
Maximun operating temperature: +90°C
Maximun short circuit temperature: +250°C
Minimum installation and laying temperature: -5°C
Min. operating temperature (without mechanical shocks): -20°C

CORE COLOURS

Single core: Black, light blue, brown, grey, orange, pink, red, touquoise, violet,white, Y/G.

INK MARKING

GENERAL CAVI - IEMMEQU <HAR> - H07Z-K -form. x sect. -Eca- inner work order - year - progressive lenght (from 25mm²)

MARKING ENGRAVING

GENERAL CAVI-Eca - H07Z-K - IEMMEQU <HAR> - year

NOTE

Maximum storage temperature: +40°C.

H07Z-K

CPR Eca

Model Product: 248 - 20210324

Cores number	Cross section	Approx conductor diameter	Insulation medium thickness	Approx external production diameter	Approx cable weight	Electric resistance at 20°C	Current carrying capacities in air 30°C
(N°)	(mm²)	(mm)	(mm)	(mm)	(kg/km)	(Ohm/km)	(A)
Single core							
1x	1.5	1.5	0.7	2.95	19	13.3	20
1x	2.5	2	0.8	3.60	31	7.98	28
1x	4	2.5	0.8	4.25	45	4.95	37
1x	6	3.0	0.8	4.75	63	3.3	48
1x	10	4.0	1	6.26	108	1.91	66
1x	16	5.0	1	7.27	162	1.21	88
1x	25	6.2	1.2	9.19	252	0.78	117
1x	35	7.4	1.2	10.10	338	0.554	144
1x	50	8.9	1.4	12.22	481	0.386	175
1x	70	10.5	1.4	14.14	670	0.272	222
1x	95	12.2	1.6	15.86	888	0.206	269
1x	120	13.8	1.6	17.78	1008	0.161	312
1x	150	15.4	1.8	19.70	1391	0.129	355
1x	185	16.9	2.0	21.92	1686	0.106	417
1x	240	19.5	2.2	25.15	2212	0.0801	490

Current carrying capacities are calculated on a single circuit with 3 loaded conductors. Lay type: CEI 64-8 Tab 52.C (3-5-31-32-33-33-18)

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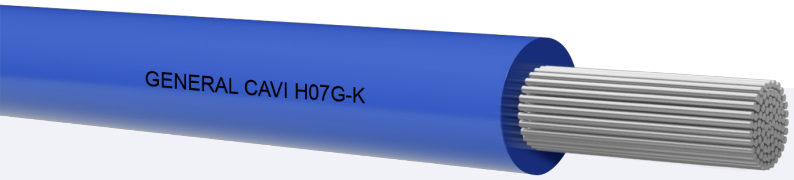
H07G-K

Model Product: 269 - 20160412



Flexible conductor TINNED copper, class 5.
Elastomeric mixture Insulation in EI3 quality.

STANDARDS

CEI 20-19/7 (CENELEC HD 22.7 S2) NF C 32-102-7 VDE 0282-7
CEI EN 60332-1-2 BS EN 60332-1-2 NF EN 60332-1-2 DIN EN 60332-1-2

Accordingly to the standards BT 2014/35/UE- 2011/65/EU (RoHS 3)

COMMON FEATURES

Cable with increased heat resistance. For internal wiring in dry locations only. For fixed installations elsewhere e. visible or embedded conduits or tubes. Maximum conductor temperature in normal use is 110°C.

EMPLOYMENT

Minimum bending radius per D cable diameter (in mm):
Fixed lay:D<8=3D D<12=3D D>12=4D
Curve near terminal:D<8=2D D<12=3D D>12=4D

Maximum pulling stress: 50 N/mm2

PACKING

100mt. rings in thermoplastic film. Drums to agree.

FLEXIBLE CABLES RUBBER INSULATED FOR INDOOR SPECIAL INSTALLATION 110°C

Nominal voltage U0: 450 V
Nominal voltage U: 750 V
Test voltage: 2500 V
Maximun operating temperature: +110°C
Maximun short circuit temperature: +260°C
Minimum installation and laying temperature: -25°C
Min. operating temperature (without mechanical shocks): -40°C

CORE COLOURS

Single core: Black, light blue, brown, grey, orange, pink, red, touquoise, violet,white, Y/G.

INK MARKING

GENERAL CAVI - IEMMEQU <HAR> - H07G-K - year

NOTE

MINIMUM ORDER QUANTITY

H07G-K

Model Product: 269 - 20160412

Conductor Number	Cross section	Maximum conductor diameter	Iinsulation thickness	External diameter		Electric resistance at 20°C	Approx cable weight	Current carrying capacities in air 30°C
				Minimum	maximum			
(N°)	(mm²)	(mm)	(mm)	(mm)	(mm)	(Ohm/km)	(kg/km)	(A)
Single core								
1x	1.5	1.8	0.8	3.0	3.7	13.7	21	16
1x	2.5	2.4	0.9	3.6	4.5	8.21	33	25
1x	4	3	1	4.3	5.4	5.09	48	32
1x	6	3.9	1	4.8	6.0	3.39	66	40
1x	10	5.1	1.2	6.0	7.6	1.95	112	63
1x	16	6.3	1.2	7.1	8.9	1.24	167	88
1x	25	7.8	1.4	8.8	11.0	0.795	254	115
1x	35	9.2	1.4	10.1	12.6	0.565	340	147
1x	50	11	1.6	11.9	14.9	0.393	485	176
1x	70	13.1	1.6	13.6	17.0	0.277	674	228
1x	95	15.1	1.8	15.5	19.3	0.210	894	271

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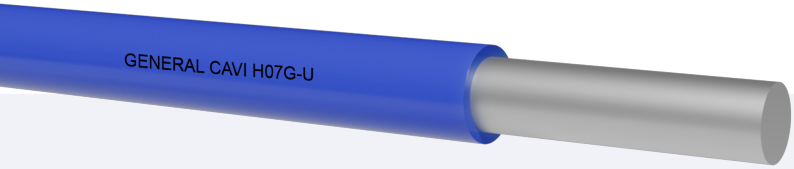
H07G-U

Model Product: - 20151203



RIGID SINGLE CORE CABLES RUBBER INSULATED FOR INDOOR SPECIAL INSTALLATION 110°C

Rigid class1 tinned copper conductor.
Elastomeric mixture Insulation in EI3 quality.

STANDARDS

CEI 20-19/7 CENELEC HD 22.7 S2 NF C 32-102-7 VDE 0282-7
CEI EN 60332-1-2 BS EN 60332-1-2 NF EN 60332-1-2 DIN EN 60332-1-2

Accordingly to the standards BT 2014/35/UE- 2011/65/EU (RoHS 3)

Nominal voltage U0: 450 V

Nominal voltage U: 750 V

Test voltage: 2500 V

Maximun operating temperature: +110°C

Maximun short circuit temperature: +260°C

Minimum installation and laying temperature: -25°C

Min. operating temperature (without mechanical shocks): -40°C

COMMON FEATURES

Cable with increased heat resistance. For internal wiring in dry locations only. For fixed installations elsewhere e. visible or embedded conduits or tubes. Maximum conductor temperature in normal use is 110°C.

EMPLOYMENT

Minimum bending radius per D cable diameter (in mm):
Fixed lay:3D
Curve near terminal:2D

Maximum pulling stress: 50 N/mm²

PACKING

100mt. rings in thermoplastic film. Drums to agree.

CORE COLOURS

Single core: Black, light blue, brown, grey, orange, pink, red, touquoise, violet, white, green and yellow.

INK MARKING

GENERAL CAVI - IEMMEQU <HAR> - H07G-U - year

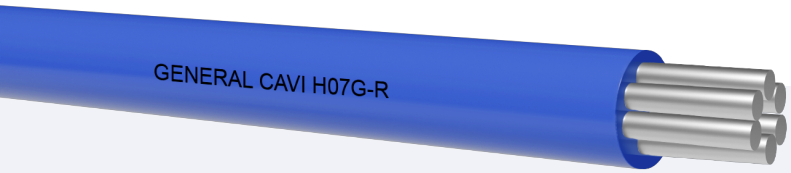
NOTE

MINIMUM ORDER QUANTITY

Conductor Number	Cross section	Maximum conductor diameter	Iinsulation thickness	External diameter		Electric resistance at 20°C	Approx cable weight	Current carrying capacities in air 30°C
				Minimum	maximum			
(N°)	(mm²)	(mm)	(mm)	(mm)	(mm)	(Ohm/km)	(kg/km)	(A)
Single core								
1x	1.5	1.7	0.8	2.8	3.5	12.2	21	16
1x	2.5	2.2	0.9	3.4	4.3	7.56	33	25
1x	4	2.7	1.0	4.0	5.0	4.70	48	32

H07G-R

Model Product: - 20151203



RIGID CABLES RUBBER INSULATED FOR INDOOR SPECIAL INSTALLATION 110°C

STANDARDS

CEI 20-19/7 (CENELEC HD 22.7 S2) NF C 32-102-7 VDE 0282-7
CEI EN 60332-1-2 BS EN 60332-1-2 NF EN 60332-1-2 DIN EN 60332-1-2

Accordingly to the standards BT 2014/35/UE- 2011/65/EU (RoHS 3)

Nominal voltage U0: 450 V

Nominal voltage U: 750 V

Test voltage: 2500 V

Maximun operating temperature: +110°C

Maximun short circuit temperature: +260°C

Minimum installation and laying temperature: -25°C

Min. operating temperature (without mechanical shocks): - 40°C

COMMON FEATURES

Cable with increased heat resistance. For internal wiring in dry locations only. For fixed installations elsewhere e. visible or embedded conduits or tubes. Maximum conductor temperature in normal use is 110°C.

EMPLOYMENT

Minimum bending radius per D cable diameter (in mm):
Fixed lay:3D
Curve near terminal:2D

Maximum pulling stress:

PACKING

100mt. rings in thermoplastic film. Drums to agree.

CORE COLOURS

Single core: Black, light blue, brown, grey, orange, pink, red, touquoise, violet, white, green and yellow.

INK MARKING

GENERAL CAVI - IEMMEQU <HAR> - H07G-R - year

NOTE

MINIMUM ORDER QUANTITY

Conductor Number	Nominal Section	Approx conductor diameter	Iinsulation thickness	External diameter		Electrc Resistance	Approx cable weight	Current carrying capacities in air 30°C
				Minimum	maximum			
(N°)	(mmq)	(mm)	(mm)	(mm)	(mm)	(Ohm/km)	(kg/km)	(A)
Single core								
1x	6	3.3	1.0	4.7	5.9	3.11	66	40
1x	10	4.2	1.2	6.0	7.4	1.84	112	63
1x	16	5.3	1.2	6.8	8.5	1.16	167	88
1x	25	6.6	1.4	8.4	10.6	0.734	254	115
1x	35	7.9	1.4	9.4	11.4	0.529	340	147
1x	50	9.1	1.6	10.9	13.7	0.391	485	176

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H07Z1-K type2

CPR Cca- s1b, d1, a1

Model Product: 263 - 20240129

Class 5 flexible copper conductor.
Thermoplastic Insulation, TI7 quality.

STANDARDS

CEI EN 50525-3-31 (IEC 60227-3)
EN 50575:2014 + EN 50575/A1:2016 Classificazione EN 13501-6

Accordingly to the standards BT 2014/35/UE- 2011/65/EU (RoHS 3)

SINGLE CORE, HALOGEN-FREE THERMOPLASTIC INSULATED WITHOUT SHEATH CABLE, WITH LOW SMOKES AND CORROSIVE GAS EMISSION L.S.O.H

Nominal voltage U0: 450 V
Nominal voltage U: 750 V
Test voltage: 2500 V
Maximun operating temperature: +70°C
Maximun short circuit temperature: +160°C
Minimum installation and laying temperature: +5°C
Min. operating temperature (without mechanical shocks): -10°C

COMMON FEATURES

Installation in surface mounted or embedded conduits, or similar colosed systems, particularly for situations in which low emission of smoke and corrosive gases are required in the case of burning. Type 2 cables are for use when special fire performance is necessary, or when local conditions or regulations require increased level of public safety (for example in hospitals, cinemas or schools). Especially suitable for use where cables are installed in bunches. Suitable for fixed protected installation in, or on, lighting and control gear for voltage up to 1000V a.c. or up to 750V d.c. to earth.Supply of electricity and communications in buildings
and other civil engineering works with the objective of limiting the generation and spread of fire and smoke.

EMPLOYMENT

Minimum bending radius per D cable diameter (in mm):
Fixed lay:D<8=3D D<12=3D D>12=4D
Fixed lay:D<8=4D D<12=4D D>12=5D

Maximum pulling stress: 50 N/mm2

PACKING

100mt. rings in thermoplastic film or drums to agree.

CORE COLOURS

Single core: Black, brown, light blue, grey, red, white, yellow/green, orange, pink,dark blue.

INK MARKING

GENERAL CAVI -Cca-s1b,d1,a1- IEMMEQU <HAR> - H07Z1-K Type 2 - year

NOTE

Maximum storage temperature: +40°C.

H07Z1-K type2

CPR Cca- s1b, d1, a1

Model Product: 263 - 20240129

Cores number	Cross section	Approx conductor diameter	Insulation medium thickness	Approx external production diameter	Approx cable weight	Electric resistance at 20°C	Current carrying capacities in air 30°C
(N°)	(mm²)	(mm)	(mm)	(mm)	(kg/km)	(Ohm/km)	(A)
Single core							
1x	1.5	1.5	0.7	2.95	21	13.3	15.5
1x	2.5	2.0	0.8	3.60	33	7.98	21
1x	4	2.5	0.8	4.25	48	4.95	28
1x	6	3.0	0.8	4.75	66	3.30	36
1x	10	4.0	1.0	6.26	112	1.91	50
1x	16	5.0	1.0	7.27	167	1.21	68
1x	25	6.2	1.2	9.19	254	0.70	89
1x	35	7.4	1.2	10.10	340	0.554	110
1x	50	8.9	1.4	12.22	485	0.386	154
1x	70	10.5	1.4	14.14	674	0.272	171
1x	95	12.2	1.6	15.86	894	0.206	207
1x	120	13.8	1.6	17.78	1110	0.161	239
1x	150	15.4	1.8	19.70	1400	0.129	275
1x	185	16.9	2.0	21.92	1700	0.106	314
1x	240	19.5	2.2	25.15	2230	0.0801	433

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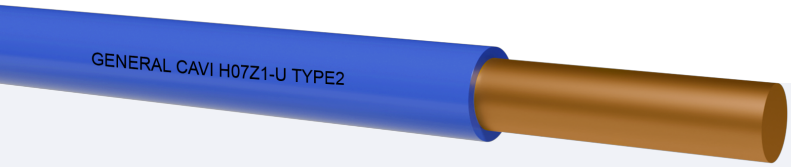
H07Z1-U type2

CPR Cca-s1b,d1,a1

Model Product: 264 - 20180212



SINGLE CORE, HALOGEN-FREE THERMOPLASTIC INSULATED WITHOUT SHEATH CABLE, WITH LOW SMOKES AND CORROSIVE GAS EMISSION L.S.O.H

Rigid class 1 red copper conductor.
Thermoplastic Insulation, TI7 quality.

STANDARDS

CEI EN 50525-3-31(IEC 60227-3)
EN 50575:2014 + EN 50575/A1:2016

Accordingly to the standards BT 2014/35/UE- 2011/65/EU (RoHS 3)

- Nominal voltage U0: 450 V
- Nominal voltage U: 750 V
- Test voltage: 2500 V
- Maximun operating temperature: +70°C
- Maximun short circuit temperature: +160°C
- Minimum installation and laying temperature: +5°C
- Min. operating temperature (without mechanical shocks): -10°C

COMMON FEATURES

Installation in surface mounted or embedded conduits, or similar colosed systems, particularly for situations in which low emission of smoke and corrosive gases are required in the case of burning.
Type 2 cables are for use when special fire performance is necessary, or when local conditions or regulations require increased level of public safety (for example in hospitals, cinemas or schools). Especially suitable for use where cables are installed in bunches. Suitable for fixed protected installation in, or on, lighting and control gear for voltage up to 1000V a.c. or up to 750V d.c. to earth.Supply of electricity and communications in buildings
and other civil engineering works with the objective of limiting the generation and spread of fire and smoke.

EMPLOYMENT

Minimum bending radius per D cable diameter (in mm):
Fixed lay= 4D Free move=2D

Maximum pulling stress: 50 N/mm2

PACKING

100mt. rings in thermoplastic film or drums to agree.

CORE COLOURS

Single core: Black, brown, light blue, grey, red, white, yellow/green,orange, pink, turquoise.

INK MARKING

GENERAL CAVI -Cca-s1b,d1,a1 IEMMEQU <HAR> - H07Z1-U Type 2 - year

NOTE

Maximum storage temperature: +40°C.

Conductor Number	Cross section	Maximum conductor diameter	Iinsulation thickness	External diameter		Electric resistance at 20°C	Approx cable weight	Current carrying capacities in air 30°C
				Minimum	maximum			
(N°)	(mm²)	(mm)	(mm)	(mm)	(mm)	(Ohm/km)	(kg/km)	(A)
Single core								
1x	1.5	1.6	0.7	2.6	3.2	12.1	21	15.5
1x	2.5	2.0	0.8	3.2	3.9	7.41	33	21

H05RR-F

CPR Eca

Model Product: 252-253 - 20210324

Class 5 flexible copper conductor.
Elastomeric mixture Insulation in EI4 quality.
Special Rubber outer sheath

STANDARDS

CEI EN 50525-2-21 CEI 20-107/2-21 CEI 20-19/4 (CENELEC HD 22.4 S4) BS 7919:2001 NF C 32-102-4 VDE 0282-4 EN 50575:2014 + EN 50575/A1:2016

Accordingly to the standards BT 2014/35/UE- 2011/65/EU (RoHS 3)

COMMON FEATURES

For general purposes in domestic areas, kitchens, offices and to feed portable devices submitted to weak mechanical stresses, exhaust fans, kitchen apparatuses, irons for welding, toaster. Supply of electricity and communications in buildings and other civil engineering works with the objective of limiting the generation and spread of fire.

EMPLOYMENT

Minimum bending radius per D cable diameter (in mm):
Fixed lay:D<8=3D D<12=3D D>12=4D
Free move :D<8=4D D<12=4D D>12=6D

Maximum pulling stress: 15 N/mm²

PACKING

100mt. rings in thermoplastic film or drums to agree.

FLEXIBLE, EPR RUBBER INSULATED CABLE WITH EPR RUBBER SHEATH

Nominal voltage U0: 300 V
Nominal voltage U: 500 V
Test voltage: 2000V
Maximun operating temperature: +60°C
Maximun short circuit temperature: +200°C
Minimum installation and laying temperature: -25°C
Min. operating temperature (without mechanical shocks): -40°C

CORE COLOURS

Single core: black

Two cores: blue-brown

Three cores: brown-black-gray (or blue-brown-Y/G)

Four cores: blue-brown-black-gray (or Y/G instead blue)

Five cores: Y/G-blue-brown-black-gray (black no Y/G)

SHEATH COLOUR

Black

INK MARKING

GENERAL CAVI - Eca - IEMMEQU <HAR> - H05RR-F - year

NOTE

IS PRODUCED ON DEMAND FOR QUANTITIES TO BE AGREED.
OZONE RESISTANT CEI EN 60811-2-1 (Metodo A) and CEI EN 50396 (Metodo B).

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H05RR-F

CPR Eca

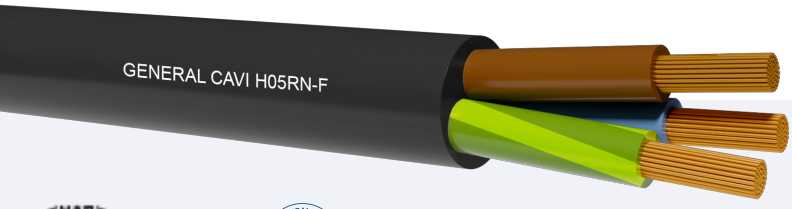
Model Product: 252-253 - 20210324

Cores number	Cross section	Approx conductor diameter	Insulation medium thickness	External diameter		Approx cable weight	Electric resistance at 20°C	Current carrying capacities
				low boundary	high boundary			30°C Mobile Service
(N°)	(mm²)	(mm)	(mm)	(mm)	(mm)	(kg/km)	(Ohm/km)	(A)
Two cores								
2x	0.75	1.1	0.6	5.7	7.4	55	26.0	6
2x	1	1.3	0.6	6.1	8.0	65	19.5	12.5
2x	1.5	1.6	0.8	7.6	9.8	90	13.3	17
2x	2.5	2	0.9	9.0	11.6	135	7.98	22.5
Three cores								
3G	0.75	1.1	0.6	6.2	8.1	73	26.0	30
3G	1	1.3	0.6	6.5	8.5	83	19.5	10
3G	1.5	1.6	0.8	8.0	10.4	110	13.3	12.5
3G	2.5	2	0.9	9.6	12.4	167	7.98	17
3G	4	2.5	1	11.3	14.5	225	4.95	22.5
3G	6	3	1	12.8	16.3	310	3.30	30
Four cores								
4G	0.75	1.1	0.6	6.8	8.8	79	26.0	40
4G	1	1.3	0.6	7.1	9.3	100	19.5	12.5
4G	1.5	1.6	0.8	9.0	11.6	135	13.3	17
4G	2.5	2	0.9	10.7	13.8	199	7.98	22.5
4G	4	2.5	1	12.7	16.2	219	4.95	30
4G	6	3	1	14.2	18.1	315	3.30	40
Five cores								
5G	0.75	3.4	0.6	7.4	9.9	100	26.0	12.5
5G	1	1.3	0.6	8.0	10.3	120	19.5	10
5G	1.5	1.6	0.8	9.1	12.7	168	13.3	16
5G	2.5	2	0.9	11.0	15.3	244	7.98	20

H05RN-F

CPR Eca

Model Product: 259 - 20201118



Class 5 flexible copper conductor.
Elastomeric mixture Insulation in EI4 quality.
Polychloroprene sheath, EM2.

STANDARDS

CEI EN 50525-2-21 CEI 20-107/2-21 CEI 20-19/4 (CENELEC HD 22.4 S4) BS 6500:2000 NF C 32-102-4 VDE 0282-4 EN 50575:2014 + EN 50575/A1:2016EN 60811 403/504/505/506 EN 50396 /EN(IEC) 60332-1-2

Accordingly to the standards BT 2014/35/UE- 2011/65/EU (RoHS 3)

COMMON FEATURES

"For general use in domestic premises, kitchens, offices and for supplying applinces where the cables are subjected to low mechanical stresses (eg. vaccum cleaners, cooking appliances, soldering irons, toaster). Also suitable for permanent use outdoors for ordinary duty applications."Supply of electricity and communications in buildings and other civil engineering works with the objective of limiting the generation and spread of fire.

EMPLOYMENT

Minimum bending radius per D cable diameter (in mm):
At the entrance to a portable device or a mobile equipment
- without cable stressing - 4D
- with mechanical stress - 6D

Maximum pulling stress: 15 N/mm2 of the cross-section of the copper, for mobile use, 50 N/mm2 for static use

PACKING

100mt. rings in thermoplastic film or drums to agree.

CABLE WITH MEDIUM POLICLOROPRENE SHEATH

Nominal voltage U0: 300 V
Nominal voltage U: 500 V
Test voltage: 2000 V
Maximun operating temperature: +60°C
Maximun short circuit temperature: +200°C
Minimum installation and laying temperature: -25°C
Min. operating temperature (without mechanical shocks): -40°C

CORE COLOURS

Two cores: blue-brown

Three cores: Brown - Black - Gray (o Y/G, Blue and Brown)

Four cores: Brown - Black - Gray-G/V (o Blue, no G/V))

SHEATH COLOUR

Black

INK MARKING

GENERAL CAVI - Eca - IEMMEQU <HAR> - H05RN-F - year

NOTE

A system exercice voltage can always overflow the 10% of its standard voltage.MINIMUM ORDER QUANTITY
In according with HD 308 only for specific installation four cores G/Y- blue-brown-black.
Special Features in addition to the features of the H05RN_F:
UV Resistant
OZONE RESISTANT CEI EN 60811-403 (Metodo A) and CEI EN 50396 (Metodo B).

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H05RN-F

CPR Eca

Model Product: 259 - 20201118

Conductor Number	Cross section	Maximum conductor diameter	Iinsulation thickness	External diameter		Electric resistance at 20°C	Approx cable weight	Current carrying capacities in air 30°C
				Minimum	maximum			
(N°)	(mm²)	(mm)	(mm)	(mm)	(mm)	(Ohm/km)	(kg/km)	(A)
Two cores								
2x	0.75	0.95	0.6	5.7	7.4	26	44	6
2x	1	1.30	0.6	6.1	8.0	19.5	55	10
Three cores								
3G	0.75	0.95	0.6	6.2	8.1	26	60	6
3G	1	1.30	0.6	6.5	8.5	19.5	72	10
Four cores								
4G	0.75	0.95	0.6	6.8	8.8	26	82	6
4G	1	1.30	0.6	7.1	9.3	19.5	87	10

H05RNH2-F

Model Product: 261 - 20160412

Class 5 flexible copper conductor.
Elastomeric mixture Insulation in EI4 quality.
Polychloroprene sheath, EM2.

STANDARDS

CEI 20-19/8 (CENELEC HD 22.8 S2) NF C 32-102-8 VDE 0282-8
CEI EN60332-1-2(CEI 20-35) BS EN 60332-1-2 NF EN 60332-1-2 DIN EN 60332-1-2

Accordingly to the standards BT 2014/35/UE- 2011/65/EU (RoHS 3)

TWO CORES PLATES CABLES WITH SPECIAL SHEATH FOR DECORATIVE CHAINS

Nominal voltage U0: 300 V

Nominal voltage U: 500 V

Test voltage: 2000 V

Maximun operating temperature: +60°C

Maximun short circuit temperature: +200°C

Minimum installation and laying temperature: -25°C

Min. operating temperature (without mechanical shocks): -40°C

COMMON FEATURES

For use in decorative chains for internal and external. . Cables temporarily bipolar plates for decorative lighting.
Please note the National Rules for the installation of protective measures such as: protection by low voltage, protection for electrical isolation and the installation non accessible.Tutte chains and decorative provisional and must be monitored and checked every times when they are installed and removed.

EMPLOYMENT

Minimum bending radius per D cable diameter (in mm):
6 times the smaller dimension of the cable

Maximum pulling stress: 50 N/mm2 of the cross-section of the copper

PACKING

100mt. rings in thermoplastic film or drums to agree.

CORE COLOURS

Two cores: blue-brown

SHEATH COLOUR

Black or Green

INK MARKING

GENERAL CAVI - IEMMEQU <HAR> - H05RNH2-F - year

NOTE

A system exercice voltage can always overflow the 10% of its standard voltage.
IT IS PRODUCED ON DEMAND FOR QUANTITIES TO BE AGREED

Conductor Number	Nominal Section	Approx conductor diameter	Maximum external diameter	Electric resistance at 20°C	Approx cable weight	Current carrying capacities 30°C in air
(N°)	(mm²)	(mm)	(mm)	(Ohm/km)	(kg/km)	(A)
Two cores						
2x	1.5	1.5	6.0x14	13.3	128	16
2x	2.5	2.0	6.0x14	7.98	141	20

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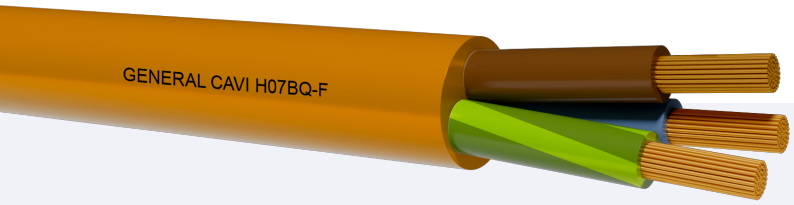
H07BQ-F

CPR Eca

Model Product: 240-241 - 20180212



Class 5 flexible copper conductor.
Elastomeric mixture Insulation in EI6 quality.
Polyurethane sheath.

STANDARDS

CEI EN 50525-2-21 CEI 20-107/2-21 CEI 20-19/10 (CENELEC HD 22.10 S2)EN 50575:2014 + EN 50575/A1:2016

Accordingly to the standards BT 2014/35/UE- 2011/65/EU (RoHS 3)

ENERGY TRANSMISSION ELASTOMERIC EI6 INSULATED CABLES WITH POLYURETHANE SHEATH SUITABLE IN DRY, HUMID OR MOIST SITUATIONS, EVEN ON IMMERSIONOIL RESISTANT IN ACCORDING TO EN 60811-404.HALOGEN FREE: IEC 60754-1 NO CORROSIVE GASES: IEC 60754-2

Nominal voltage U0: 450 V
Nominal voltage U: 750 V
Test voltage: 3000 V
Maximun voltage Um: 1000V Installazioni Fisse / for fixed and protected installation
Maximun operating temperature: +90 °C
Maximun short circuit temperature: +250°C
Minimum installation and laying temperature: -40°C;
Min. operating temperature (without mechanical shocks): -55°C

COMMON FEATURES

In dry, humid or moist situations, outdoors (AD6 and AD7); for equipements in industrial and agricoltural workshop, heating installations where there is no risk of contact with hot parts and is not subject to radiations, electric tools as drills, circular saws, motors or trasportable generators in construction sites or agricoltural plants and so on, for use in coldstorage applications. Especially suitable in situations where the cable il subject to high abrasion and tear stresses. Suitable for permanent outdoor use where a black sheath is specified and tested against appropriate requirements, or the manifacturer has provided suitable alternative protections.Supply of electricity and communications in buildings and other civil engineering works with the objective of limiting the generation and spread of fire and smoke

EMPLOYMENT

Minimum bending radius per D cable diameter (in mm):
Fixed installationD<8=3D D<12=3D D<20=4D D>20=4D
Free Movement D<8=4D D<12=4D D<20=5D D>20=6D
At the entrance to a portable device or a mobile device
mechanical stress with D<8=6D D<12=6D D<20=6D D>20=8D
Diverted to pulley D<8=8D D<12=8D D<20=8D D>20=8D

Maximum pulling stress: 15 N/mm2 section of copper dynamic applications, for fixed 50 N/mm2

PACKING

100mt. rings in thermoplastic film or drums to agree.
NOTE: Maximum storage temperature: +40°C

CORE COLOURS

Two cores: blue-brown

Three cores: brown-black-gray (or blue-brown-Y/G)

Four cores: blue-brown-black-gray (or Y/G instead blue)

Five cores: Y/G-blue-brown-black-gray (black no Y/G)

SHEATH COLOUR

Orange

INK MARKING

GENERALCAVI -Eca- IEMMEQU <HAR> - H07BQ-F - year

H07BQ-F

CPR Eca

Model Product: 240-241 - 20180212

Cores number	Cross section	Approx conductor diameter	Insulation medium thickness	Approx external production diameter	Approx cable weight	Electric resistance at 20°C	Current carrying capacities 30°C Mobile Service
(N°)	(mm²)	(mm)	(mm)	(mm)	(kg/km)	(Ohm/km)	(A)
Two cores							
2x	1*	1.3	0.8	7.86	75.3	19.0	12
2x	1.5*	1.6	0.8	8.51	95	13.3	12.5
2x	2.5*	2	0.9	10.01	137	7.98	17
2x	4*	2.6	1.0	11.61	193	4.95	22.5
2x	6	3.4	1.0	12.81	250	3.30	30
2x	10	4.4	1.2	17.25	444	1.91	63
2x	16	5.7	1.2	19.43	608	1.21	12.5
2x	25**	6.9	1.4	25.55	1040	0.780	17
2x	35**	8.1	1.4	28.10	1169	0.554	22.5
2x	50**	9.8	1.6	33.1	1600	0.386	30
Three cores							
3G	1*	1.3	0.8	8.47	95	19.0	40
3G	1.5*	1.6	0.8	8.99	108	13.3	12.5
3G	2.5*	2	0.9	10.59	137	7.98	17
3G	4*	2.6	1.0	12.31	197	4.95	22.5
3G	6	3.4	1.0	13.79	267	3.3	30
3G	10	4.4	1.2	18.47	556	1.91	40
3G	16	5.7	1.2	21.02	780	1.21	12.5
3G	25**	6.9	1.4	27.69	1324	0.780	17
3G	35**	8.1	1.4	30.95	1754	0.554	22.5
3G	50**	9.8	1.6	35.80	2409	0.386	30
3G	70**	11.6	1.6	40.45	3211	0.272	172
3G	95**	13.3	1.8	45.08	4210	0.206	204
3G	120**	15.1	1.8	49.93	5205	0.161	238
Four cores							
4G	1*	1.3	0.8	9.61	105	19.0	12
4G	1.5*	1.6	0.8	9.97	120	13.3	20
4G	2.5*	2	0.9	11.74	177	7.98	26
4G	4*	2.6	1.0	13.64	256	4.95	35
4G	6	3.4	1.0	15.25	346	3.3	46
4G	10	4.4	1.2	20.25	702	1.91	63
4G	16	5.7	1.2	22.84	981	1.21	85
4G	25**	6.9	1.4	30.75	1714	0.780	92
4G	35**	8.1	1.4	34.23	2204	0.554	114
4G	50**	9.8	1.6	39.56	3029	0.386	143

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H07BQ-F

CPR Eca

Model Product: 240-241 - 20180212

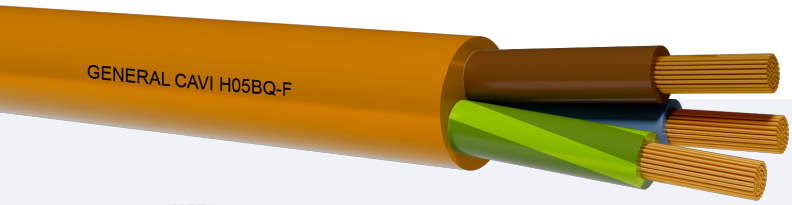
Cores number	Cross section	Approx conductor diameter	Insulation medium thickness	Approx external production diameter	Approx cable weight	Electric resistance at 20°C	Current carrying capacities 30°C Mobile Service
(N°)	(mm²)	(mm)	(mm)	(mm)	(kg/km)	(Ohm/km)	(A)
4G	70**	11.6	1.6	44.89	4121	0.272	178
4G	95**	13.3	1.8	50.36	5361	0.206	210
4G	120**	15.1	1.8	55.33	6546	0.161	246
4G	150**	16.8	2.0	60.87	8095	0.129	282
Five cores							
5G	1*	1.3	0.8	10.21	150	19.0	12
5G	1.5*	1.6	0.8	10.81	177	13.3	20
5G	2.5*	2	0.9	12.97	260	7.98	26
5G	4*	2.6	1.0	15.06	372	4.95	35
5G	6	3.4	1.0	16.12	491	3.3	46
5G	10	4.4	1.2	22.22	852	1.91	63
5G	16	5.7	1.2	25.26	1206	1.21	85
5G	25**	6.9	1.4	33.57	2096	0.780	94
5G	35**	8.1	1.4	39.20	2697	0.554	114
5G	50**	9.8	1.6	45.40	3740	0.386	143
5G	70**	11.6	1.6	48.00	5033	0.272	178
5G	95**	13.3	1.8	53.22	6271	0.206	210

*FullPur NO CPR
**NO IMMMEQ <HAR>
halogen free compounds

H05BQ-F

OIL RESISTANT IN ACCORDING TO EN 60811-404

Model Product: 243 - 20191023



Class 5 flexible copper conductor.
Elastomeric mixture Insulation in EI6 quality.
Polyurethane sheath.

STANDARDS

CEI EN 50525-2-21 CEI 20-107/2-21 CEI 20-19/10 (CENELEC HD 22.10 S2)

Accordingly to the standards BT 2014/35/UE- 2011/65/EU (RoHS 3)

ENERGY TRANSMISSION ELASTOMERIC EI6 INSULATED CABLES WITH POLYURETHANE SHEATH SUITABLE IN DRY, HUMID OR MOIST SITUATIONS, EVEN ON IMMERSION.HALOGEN FREE: IEC 60754-1 NO CORROSIVE GASES: IEC 60754-2
OIL RESISTANT IN ACCORDING TO EN 60811-404

Nominal voltage U0: 300 V
Nominal voltage U: 500 V
Test voltage: 2000 V
Maximun operating temperature: +90°C
Maximun short circuit temperature: +250°C
Minimum installation and laying temperature: -40°C
Min. operating temperature (without mechanical shocks): -55°C

COMMON FEATURES

In dry, humid or moist situations, outdoors (AD6 and AD7); formedium mechanical stresses, such as: equipements in industrial and agricoltural workshop, heating installations where there is no risk of contact with hot parts and is not subject to radiations, electric tools as drills, circular saws, motors or trasportable generators in construction sites or agricoltural plants and so on, for use in coldstorage
applications.Especially suitable in situations where the cable il subject to high abrasion and tear stresses. Suitable for permanent outdoor use where a black sheath is specified and tested against appropriate requirements, or the manifacturer has provided suitable alternative protections.
OIL RESISTANT IN ACCORDING TO EN 60811-404

EMPLOYMENT

Minimum bending radius per D cable diameter (in mm):
Fixed installation D<8=3D D<12=3D D<20=4D D>20=4D
Free Movement D<8=4D D<12=4D D<20=5D D>20=6D
At the entrance to a portable device or a mobile device
mechanical stress with D<8=6D D<12=6D D<20=6D D>20=8D
Festoons eg. gantry crane for D<8=6D D<12=6D D<20=6D D>20=8D
Winding repeated D<8=6D D<12=6D D<20=6D D>20=8D
Diverted to pulley D<8=8D D<12=8D D<20=8D D>20=8D

Maximum pulling stress: 15 N/mm2 section of copper dynamic applications, for fixed 50 N/mm2

PACKING

100mt. rings in thermoplastic film or drums to agree.
NOTE: Maximum storage temperature: +40°C

CORE COLOURS

Two cores: blue-brown

Three cores: Brown - Black - Gray (o Y/G, Blue and Brown)

Four cores: blue-brown-black-gray (or Y/G instead blue)

Five cores: Y/G-blue-brown-black-gray (black no Y/G)

SHEATH COLOUR

Orange

INK MARKING

GENERALCAVI - IEMMEQU <HAR> - H05BQ-F - year

NOTE

halogen free compounds

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Catalogo prodotti da costruzione CPR UE305/2011

H05BQ-F

OIL RESISTANT IN ACCORDING TO EN 60811-404

Model Product: 243 - 20191023

Conductor Number	Cross section	Approx conductor diameter	Iinsulation thickness	external diameter		Approx cable weight	Electric resistance at 20°C	Current carrying capacities 30°C
				low boundary	high boundary			
(N°)	(mm²)	(mm)	(mm)	(mm)	(mm)	(kg/km)	(Ohm/km)	(A)
Two cores								
2x	0.75*	1.3	0.6	5.7	7.4	46	26	6
2x	1*	1.5	0.6	6.1	8.0	53.	19.5	10
Three cores								
3G	0.75*	1.3	0.6	6.2	8.1	59	26	6
3G	1*	1.5	0.6	6.5	8.5	67	19.5	10
Four cores								
4G	0.75*	1.3	0.6	6.8	8.8	81	26	6
4G	1*	1.5	0.6	7.1	9.3	84	19.5	10
Five cores								
5G	0.75*	1.3	0.6	7.6	9.9	90	26	6
5G	1*	1.5	0.6	8.0	10.3	107	19.5	10

*FullPur

H07RN-F 4HP

FOUR HIGH PERFORMANCE CPR Eca

Model Product: B50-B51 - 20200611

HALOGEN-FREE ENERGY TRANSMISSION RUBBER INSULATED HIGH PERFORMANCE CABLES WITH SPECIAL SHEATH SUITED FOR FIXED LAY, MOBILE LINK AND MECHANICAL SERVICE HEAVY TOO

Class 5 flexible copper conductor.
Elastomeric mixture Insulation in EI4 quality.
Halogen Free Sheath cross-linked special compound

STANDARDS

CEI EN 50525-2-21 CEI 20-107/2-21 CEI 20-19/4 (CENELEC HD 22.4 S4) BS 7919:2001 NF C 32-102-4 VDE 0282-4
EN 50575:2014 + EN 50575/A1:2016 EN 50267-2-1 EN 50267-2-2 EN 60811-403/504/505/506 EN 50396

Accordingly to the standards BT 2014/35/UE- 2011/65/EU (RoHS 3)

Nominal voltage U0: 450 V
Nominal voltage U: 750 V
Test voltage: 2500 V
Maximun voltage Um: 1000V Installazioni Fisse / for fixed and protected installation
Maximun operating temperature: +60°C(+90°C)
Maximun short circuit temperature: +200°C(+250°C)
Minimum installation and laying temperature: -25°C(-40°C)
Min. operating temperature (without mechanical shocks): -40°C(-50°C)

COMMON FEATURES

This cable is suitable for dry, humid or wet environments in open air, in workshops with an explosive athmosphere. When used for connections they're subjected to medium/severe mechanical stress. It can be used even in fixed laying like floors and temporary construction site set offs.CPR Compliant 305/2011 EU
Special Features in addition to the features of the H07RN_F:
1-Halogen-free
2-Insulation tested up to +90°C. Includes the characteristics of the H07BN4-F cables and the H07BB-F cables. Low Temperature Resistant (-40°C dynamic -50°C static).
3-AD8 water resistance 10 bar such as the H07RN8-F.
4-OZONE RESISTANT (Test A) and (Test B). UV Resistant. AG3 Shock Resistant. Excellent resistance to mineral oils, fats, AF3, and atmospheric agents AK2.Resistance to alternate bending of sections ≤ 4 mm2: for at least 100000 cycles

EMPLOYMENT

Minimum bending radius per D cable diameter (in mm):
Fixed installation D<8=3D D<12=3D D<20=4D D>20=4D
Free Movement D<8=4D D<12=4D D<20=5D D>20=6D

Maximum pulling stress: 15 N/mm2 section of copper dynamic applications, for fixed 50 N/mm2

PACKING

100mt. rings or drums. MINIMUM QUANTITY PER SECTION

CORE COLOURS

Single core: black

Two cores: blue-brown

Three cores: Brown - Black - Gray (o Y/G, Blue and Brown)

Four cores: blue-brown-black-gray (or Y/G instead blue)

Five cores: Y/G-blue-brown-black-gray (black no Y/G)

Multicores: black with numbers and Y/G

SHEATH COLOUR

Black

INK MARKING

GENERAL CAVI-Eca-year-IEMMEQU<HAR>H07RN-F-4HP -form x sect-iwo

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H07RN-F 4HP

FOUR HIGH PERFORMANCE CPR Eca

Model Product: B50-B51 - 20200611

Cores number	Cross section	Approx conductor diameter	Insulation medium thickness	Approx external production diameter	Approx cable weight	Electric resistance at 20°C	Mobile service Current carrying capacities at 60°C conductor temp	Current rating for fixed installation at 85°C of conductor temp.open air
(N°)	(mm²)	(mm)	(mm)	(mm)	(kg/km)	(Ohm/km)	(A)	(A)
Single core								
1x	1.5	1.6	0.8	5.9	50	13.3	16	23
1x	2.5	2	0.9	6.50	65	7.98	25	32
1x	4	2.6	1.0	7.4	89	4.95	30	43
1x	6	3.4	1.0	8.10	115	3.30	38	56
1x	10	4.4	1.2	10.4	190	1.91	53	77
1x	16	5.7	1.2	11.62	259	1.21	71	102
1x	25	6.9	1.4	13.74	375	0.780	94	136
1x	35	8.1	1.4	15.35	492	0.554	117	168
1x	50	9.8	1.6	17.68	675	0.386	148	203
1x	70	11.6	1.6	20.00	908	0.272	185	254
1x	95	13.3	1.8	22.12	1171	0.206	222	299
1x	120	15.1	1.8	24.54	1445	0.161	260	363
1x	150	16.8	2.0	26.87	1783	0.129	300	416
1x	185	18.6	2.2	28.89	2125	0.106	341	475
1x	240	21.4	2.4	32.62	2733	0.0801	407	559
1x	300	23.9	2.6	36.46	3348	0.0641	468	637
1x	400	27.5	2.8	39.6	4800	0.0486	553	722
1x	500	35.0	3.0	45.5	5800	0.0384	620	833
1x	630	39.0	3.0	49.5	6800	0.0287	742	888
Two cores								
2x	1	1.3	0.8	8.4	90	19.5	10	18
2x	1.5	1.6	0.8	9.10	109	13.3	18	23
2x	2.5	2	0.9	10.80	158	7.98	27	32
2x	4	2.6	1.0	12.40	217	4.95	34	43
2x	6	3.4	1.0	13.80	282	3.30	43	56
2x	10	4.4	1.2	19.37	539	1.91	60	77
2x	16	5.7	1.2	21.76	722	1.21	79	102
2x	25	6.9	1.4	25.93	1043	0.780	105	136
2x	35	8.1	1.4	28.77	1169	0.554	129	168
2x	50	9.8	1.6	33.1	1606	0.386	150	203
2x	70	11.6	1.6	37.8	2140	0.272	185	254
2x	95	13.3	1.8	42.4	2806	0.206	216	299
Three cores								
3G	1	1.3	0.8	9.07	110	19.5	10	18

H07RN-F 4HP

FOUR HIGH PERFORMANCE CPR Eca

Model Product: B50-B51 - 20200611

Cores number	Cross section	Approx conductor diameter	Insulation medium thickness	Approx external production diameter	Approx cable weight	Electric resistance at 20°C	Mobile service Current carrying capacities at 60°C conductor temp	Current rating for fixed installation at 85°C of conductor temp.open air
(N°)	(mm²)	(mm)	(mm)	(mm)	(kg/km)	(Ohm/km)	(A)	(A)
3G	1.5	1.6	0.8	10.18	134	13.3	16	23
3G	2.5	2.0	0.9	11.58	196	7.98	25	32
3G	4	2.6	1.0	13.3	271	4.95	29	43
3G	6	3.4	1.0	14.78	355	3.30	36	56
3G	10	4.4	1.2	20.73	674	1.91	51	77
3G	16	5.7	1.2	23.26	913	1.21	67	102
3G	25	6.9	1.4	27.69	1324	0.780	89	136
3G	35	8.1	1.4	30.95	1754	0.554	110	168
3G	50	9.8	1.6	35.80	2409	0.386	138	203
3G	70	11.6	1.6	40.45	3211	0.272	172	254
3G	95	13.3	1.8	45.08	4210	0.206	204	299
3G	120	15.1	1.8	49.93	5205	0.161	238	363
3G	150	16.8	2.0	54.78	6389	0.129	273	416
3G	185	18.6	2.2	58.99	7591	0.106	309	475
3G	240	21.4	2.4	67.85	9944	0.0801	365	559
3G	300	23.9	2.6	75.56	10133	0.0641	450	637
Four cores								
4G	1	1.3	0.8	10.0	136	19.5	10	16
4G	1.5	1.6	0.8	10.76	166	13.3	16	21
4G	2.5	2.0	0.9	12.73	241	7.98	20	29
4G	4	2.6	1.0	14.63	336	4.95	30	38
4G	6	3.4	1.0	16.44	449	3.30	37	50
4G	10	4.4	1.2	22.57	833	1.91	52	68
4G	16	5.7	1.2	25.36	1138	1.21	69	92
4G	25	6.9	1.4	30.75	1714	0.780	92	122
4G	35	8.1	1.4	34.23	2204	0.554	114	150
4G	50	9.8	1.6	39.56	3029	0.386	143	182
4G	70	11.6	1.6	44.89	4121	0.272	178	232
4G	95	13.3	1.8	50.36	5361	0.206	210	281
4G	120	15.1	1.8	55.33	6546	0.161	246	325
4G	150	16.8	2.0	60.87	8095	0.129	282	373
4G	185	18.6	2.2	65.70	9652	0.106	319	425
4G	240	21.4	2.4	75.70	12614	0.0801	377	500
4G	300	23.9	2.6	86.33	13890	0.0641	460	588
Five cores								

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H07RN-F 4HP

FOUR HIGH PERFORMANCE CPR Eca

Model Product: B50-B51 - 20200611

Cores number	Cross section	Approx conductor diameter	Insulation medium thickness	Approx external production diameter	Approx cable weight	Electric resistance at 20°C	Mobile service Current carrying capacities at 60°C conductor temp	Current rating for fixed installation at 85°C of conductor temp.open air
(N°)	(mm²)	(mm)	(mm)	(mm)	(kg/km)	(Ohm/km)	(A)	(A)
5G	1	1.3	0.8	11.0	168	19.5	10	16
5G	1.5	1.6	0.8	11.80	206	13.3	16	21
5G	2.5	2.0	0.9	13.96	297	7.98	20	29
5G	4	2.6	1.0	16.25	422	4.95	30	38
5G	6	3.4	1.0	18.07	567	3.30	38	50
5G	10	4.4	1.2	24.75	1010	1.91	54	68
5G	16	5.7	1.2	28.01	1400	1.21	71	92
5G	25	6.9	1.4	33.57	2096	0.780	94	122
5G	35	8.1	1.4	39.2	2697	0.554	114	150
5G	50	9.8	1.6	45.4	3740	0.386	143	182
5G	70	11.6	1.6	48.0	5033	0.272	178	232
5G	95	13.3	1.8	53.22	6271	0.206	210	281
Multicores								
7G	1.5	1.6	0.8	15.3	315	13.3	16	21
7G	2.5	2.0	0.9	17.9	445	7.98	20	29
7G	4	2.6	1.0	19.64	618	4.95	25	38
10G	1.5	1.6	0.8	17.9	420	13.3	16	21
12G	1.5	1.6	0.8	18.4	493	13.3	16	21
12G	2.5	2.0	0.9	22.17	702	7.98	20	29
12G	4	2.6	1.0	25.77	1004	4.95	25	38
18G	1.5	1.6	0.8	22.00	705	13.3	16	21
18G	2.5	2.0	0.9	25.95	1020	7.98	20	29
19G	1.5	1.6	0.8	22.79	710	13.3	16	21
19G	2.5	2.0	0.9	26.25	1030	7.98	20	29
24G	1.5	1.6	0.8	25.04	898	13.3	16	21
24G	2.5	2.0	0.9	29.37	1312	7.98	20	29
36G	1.5	1.6	0.8	29.3	1246	13.3	16	21
36G	2.5	2.0	0.9	35.0	1851	7.98	20	29

Current carrying capacities for unipolar cables are calculated on 3 spanned cables.
Current carrying capacities for cables are calculated on 3-4 spanned cables.
Special Bending Radius:
At the entrance to a portable device or a mobile device mechanical stress with D <8 = 6D D <12 = 6D D <20 = 6D D> 20 = 8D
Winding repeated D <8 = 6D D <12 = 6D D <20 = 6D D> 20 = 8D
Diverted to pulley D <8 = 8D D <12 = 8D D <20 = 8D D> 20 = 8D

H07RN-F GECAFLEX

CPR Eca

Model Product: - 20250313

EXTREMELY FLEXIBLE CABLES FOUR ENERGY TRANSMISSION RUBBER INSULATED WITH SPECIAL SHEATH SUITED FOR FIXED LAY, MOBILE LINK AND MECHANICAL SERVICE HEAVY TOO

Class 5 flexible copper conductor.
Elastomeric mixture Insulation in EI4 quality.
Polychloroprene sheath, EM2.

STANDARDS

CEI EN 50525-2-21 CEI 20-107/2-21 CEI 20-19/4 (CENELEC HD 22.4 S4) BS 7919:2001 NF C 32-102-4 VDE 0282-4
EN 50575:2014 + EN 50575/A1:2016 EN 60332-1-2 EN 60811 403/504/505/506 EN 50396

Accordingly to the standards BT 2014/35/UE- 2011/65/EU (RoHS 3)

Nominal voltage U0: 450 V
Nominal voltage U: 750 V
Test voltage: 2500 V
Maximun voltage Um: 1000V Installazioni Fisse / for fixed and protected installation
Maximun operating temperature: +60°C(+90°C)
Maximun short circuit temperature: +200°C(+250°C)
Minimum installation and laying temperature: -25°C(-40°C)
Min. operating temperature (without mechanical shocks): -40°C(-50°C)

COMMON FEATURES

This cable is suitable for dry, humid or wet environments in open air, in workshops with an explosive athmosphere. When used for connections they're subjected to medium/severe mechanical stress. It can be used even in fixed laying like floors and temporary construction site set offs.CPR Compliant 305/2011 EU
Special Features in addition to the features of the H07RN_F:
-Insulation tested up to +90°C includes the characteristics of the H07BN4-F cables and the H07BB-F cables. Low Temperature Resistant (-40°C dynamic -50°C static).
-AD8 water resistance 10 bar such as the H07RN8-F.
-OZONE RESISTANT (Test A) and (Test B). UV Resistant. AG3 Shock Resistant. Excellent resistance to mineral oils, fats, AF3, and atmospheric agents AK2.Resistance to alternate bending

EMPLOYMENT

Minimum bending radius per D cable diameter (in mm):
Fixed installation D<8=3D D<12=3D D<20=4D D>20=4D
Free Movement D<8=4D D<12=4D D<20=5D D>20=6D

Maximum pulling stress: 15 N/mm2 section of copper dynamic applications, for fixed 50 N/mm2

PACKING

drums to agree.

CORE COLOURS

Single core: black

SHEATH COLOUR

Black

INK MARKING

Meter GENERAL CAVI-Eca-year-IEMMEQU<HAR>H07RN-F GECAFLEX -form x sect-iwo

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H07RN-F GECAFLEX

CPR Eca

Model Product: - 20250313

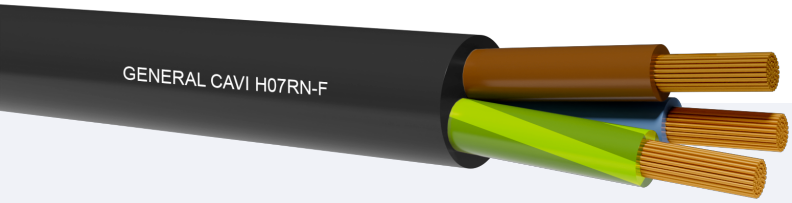
Cores number	Cross section	Approx conductor diameter	Insulation medium thickness	Approx external production diameter	Approx cable weight	Electric resistance at 20°C	Mobile service Current carrying capacities at 60°C conductor temp	Current rating for fixed installation at 90°C of conductor temp. air in trifoil
(N°)	(mm²)	(mm)	(mm)	(mm)	(kg/km)	(Ohm/km)	(A)	(A)
Single core								
1x	70	11.6	1.6	20.00	908	0.272	185	268
1x	95	13.3	1.8	22.12	1171	0.206	222	328
1x	120	15.1	1.8	24.54	1445	0.161	260	383
1x	150	16.8	2.0	26.87	1783	0.129	300	444
1x	185	18.6	2.2	28.89	2125	0.106	341	510
1x	240	21.4	2.4	32.62	2733	0.0801	407	607
1x	300	23.9	2.6	36.46	3348	0.0641	468	703

Current carrying capacities for unipolar cables are calculated on 3 spanned cables.
Current carrying capacities for cables are calculated on 3-4 spanned cables.
Special Bending Radius:
At the entrance to a portable device or a mobile device mechanical stress with D <8 = 6D D <12 = 6D D <20 = 6D D> 20 = 8D
Winding repeated D <8 = 6D D <12 = 6D D <20 = 6D D> 20 = 8D
Diverted to pulley D <8 = 8D D <12 = 8D D <20 = 8D D> 20 = 8D

H07RN-F

CPR Eca

Model Product: 250-251 - 20250206



ENERGY TRANSMISSION RUBBER INSULATED CABLES WITH SPECIAL SHEATH SUITED FOR FIXED LAY, MOBILE LINK AND MECHANICAL SERVICE HEAVY TOO

Class 5 flexible copper conductor.
Elastomeric mixture Insulation in EI4 quality.
Polychloroprene sheath, EM2.

STANDARDS

CEI EN 50525-2-21 CEI 20-107/2-21 CEI 20-19/4 (CENELEC HD 22.4 S4) BS 7919:2001 NF C 32-102-4 VDE 0282-4
EN 50575:2014 + EN 50575/A1:2016 EN 60332-1-2 EN 60811 403/504/505/506 EN 50396

Accordingly to the standards BT 2014/35/UE- 2011/65/EU (RoHS 3)

Nominal voltage U0: 450 V
Nominal voltage U: 750 V
Test voltage: 2500 V
Maximun voltage Um: 1000V Installazioni Fisse / for fixed and protected installation
Maximun operating temperature: +60°C(+90°C for fixed installation)
Maximun short circuit temperature: +200°C(+250°C)
Minimum installation and laying temperature: -25°C(-40°C)
Min. operating temperature (without mechanical shocks): -40°C(-50°C)

COMMON FEATURES

This cable is suitable for dry, humid or wet environments in open air, in workshops with an explosive athmosphere. When used for connections they're subjected to medium/severe mechanical stress. It can be used even in fixed laying like floors and temporary construction site set offs.CPR Compliant 305/2011 EU
Special Features in addition to the features of the H07RN_F:
-Insulation tested up to +90°C includes the characteristics of the H07BN4-F cables and the H07BB-F cables. Low Temperature Resistant (-40°C dynamic -50°C static).
-AD8 water resistance 10 bar such as the H07RN8-F.
-OZONE RESISTANT (Test A) and (Test B). UV Resistant. AG3 Shock Resistant. Excellent resistance to mineral oils, fats, AF3, and atmospheric agents AK2.Resistance to alternate bending of sections ≤ 4 mm2: for at least 100000 cycles

EMPLOYMENT

Minimum bending radius per D cable diameter (in mm):
Fixed installation D<8=3D D<12=3D D<20=4D D>20=4D
Free Movement D<8=4D D<12=4D D<20=5D D>20=6D

Maximum pulling stress: 15 N/mm2 section of copper dynamic applications, for fixed 50 N/mm2

PACKING

100mt. rings in thermoplastic film or drums to agree.

CORE COLOURS

Single core: black

Two cores: blue-brown

Three cores: Brown - Black - Gray (o Y/G, Blue and Brown)

Four cores: blue-brown-black-gray (or Y/G instead blue)

Five cores: Y/G-blue-brown-black-gray (black no Y/G)

Multicores: black with numbers and Y/G

SHEATH COLOUR

Black

INK MARKING

GENERAL CAVI-Eca-year-IEMMEQU<HAR>H07RN-F-form x sect-iwo

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H07RN-F

CPR Eca

Model Product: 250-251 - 20250206

Cores number	Cross section	Approx conductor diameter	Insulation medium thickness	Approx external production diameter	Approx cable weight	Electric resistance at 20°C	Mobile service Current carrying capacities at 60°C conductor temp	Current rating for fixed installation at 90°C of conductor temp. air in trifoil
(N°)	(mm²)	(mm)	(mm)	(mm)	(kg/km)	(Ohm/km)	(A)	(A)
Single core								
1x	1.5	1.6	0.8	5.9	50	13.3	16	24
1x	2.5	2	0.9	6.50	65	7.98	25	33
1x	4	2.6	1.0	7.4	89	4.95	30	45
1x	6	3.4	1.0	8.10	115	3.30	38	58
1x	10	4.4	1.2	10.4	190	1.91	53	80
1x	16	5.7	1.2	11.62	259	1.21	71	107
1x	25	6.9	1.4	13.74	375	0.780	94	135
1x	35	8.1	1.4	15.35	492	0.554	117	169
1x	50	9.8	1.6	17.68	675	0.386	148	207
1x	70	11.6	1.6	20.00	908	0.272	185	268
1x	95	13.3	1.8	22.12	1171	0.206	222	328
1x	120	15.1	1.8	24.54	1445	0.161	260	383
1x	150	16.8	2.0	26.87	1783	0.129	300	444
1x	185	18.6	2.2	28.89	2125	0.106	341	510
1x	240	21.4	2.4	32.62	2733	0.0801	407	607
1x	300	23.9	2.6	36.46	3348	0.0641	468	703
1x	400	27.5	2.8	39.6	4800	0.0486	553	823
1x	500	35.0	3.0	45.5	5800	0.0384	620	946
1x	630	39.0	3.0	49.5	6800	0.0287	742	1088
Two cores								
2x	1	1.3	0.8	8.4	90	19.5	10	19
2x	1.5	1.6	0.8	9.10	109	13.3	18	26
2x	2.5	2	0.9	10.80	158	7.98	27	36
2x	4	2.6	1.0	12.40	217	4.95	34	49
2x	6	3.4	1.0	13.80	282	3.30	43	63
2x	10	4.4	1.2	19.37	539	1.91	60	86
2x	16	5.7	1.2	21.76	722	1.21	79	115
2x	25	6.9	1.4	25.93	1043	0.780	105	149
2x	35	8.1	1.4	28.77	1169	0.554	129	185
2x	50	9.8	1.6	33.1	1606	0.386	150	225
2x	70	11.6	1.6	37.8	2140	0.272	185	289
2x	95	13.3	1.8	42.4	2806	0.206	216	352
Three cores								
3G	1	1.3	0.8	9.07	110	19.5	10	19

H07RN-F

CPR Eca

Model Product: 250-251 - 20250206

Cores number	Cross section	Approx conductor diameter	Insulation medium thickness	Approx external production diameter	Approx cable weight	Electric resistance at 20°C	Mobile service Current carrying capacities at 60°C conductor temp	Current rating for fixed installation at 90°C of conductor temp. air in trifoil
(N°)	(mm²)	(mm)	(mm)	(mm)	(kg/km)	(Ohm/km)	(A)	(A)
3G	1.5	1.6	0.8	10.18	134	13.3	16	26
3G	2.5	2.0	0.9	11.58	196	7.98	25	36
3G	4	2.6	1.0	13.3	271	4.95	29	49
3G	6	3.4	1.0	14.78	355	3.30	36	63
3G	10	4.4	1.2	20.73	674	1.91	51	86
3G	16	5.7	1.2	23.26	913	1.21	67	115
3G	25	6.9	1.4	27.69	1324	0.780	89	149
3G	35	8.1	1.4	30.95	1754	0.554	110	185
3G	50	9.8	1.6	35.80	2409	0.386	138	225
3G	70	11.6	1.6	40.45	3211	0.272	172	289
3G	95	13.3	1.8	45.08	4210	0.206	204	352
3G	120	15.1	1.8	49.93	5205	0.161	238	410
3G	150	16.8	2.0	54.78	6389	0.129	273	473
3G	185	18.6	2.2	58.99	7591	0.106	309	542
3G	240	21.4	2.4	67.85	9944	0.0801	365	641
3G	300	23.9	2.6	75.56	10133	0.0641	450	741
Four cores								
4G	1	1.3	0.8	10.0	136	19.5	10	17
4G	1.5	1.6	0.8	10.76	166	13.3	16	23
4G	2.5	2.0	0.9	12.73	241	7.98	20	32
4G	4	2.6	1.0	14.63	336	4.95	30	42
4G	6	3.4	1.0	16.44	449	3.30	37	54
4G	10	4.4	1.2	22.57	833	1.91	52	75
4G	16	5.7	1.2	25.36	1138	1.21	69	100
4G	25	6.9	1.4	30.75	1714	0.780	92	127
4G	35	8.1	1.4	34.23	2204	0.554	114	158
4G	50	9.8	1.6	39.56	3029	0.386	143	192
4G	70	11.6	1.6	44.89	4121	0.272	178	246
4G	95	13.3	1.8	50.36	5361	0.206	210	298
4G	120	15.1	1.8	55.33	6546	0.161	246	346
4G	150	16.8	2.0	60.87	8095	0.129	282	399
4G	185	18.6	2.2	65.70	9652	0.106	319	456
4G	240	21.4	2.4	75.70	12614	0.0801	377	538
4G	300	23.9	2.6	86.33	13890	0.0641	460	621
Five cores								

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H07RN-F

CPR Eca

Model Product: 250-251 - 20250206

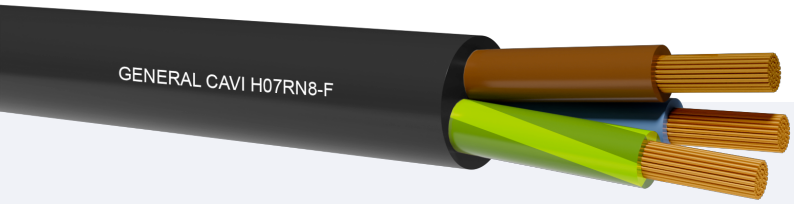
Cores number	Cross section	Approx conductor diameter	Insulation medium thickness	Approx external production diameter	Approx cable weight	Electric resistance at 20°C	Mobile service Current carrying capacities at 60°C conductor temp	Current rating for fixed installation at 90°C of conductor temp. air in trifoil
(N°)	(mm²)	(mm)	(mm)	(mm)	(kg/km)	(Ohm/km)	(A)	(A)
5G	1	1.3	0.8	11.0	168	19.5	10	17
5G	1.5	1.6	0.8	11.80	206	13.3	16	23
5G	2.5	2.0	0.9	13.96	297	7.98	20	32
5G	4	2.6	1.0	16.25	422	4.95	30	42
5G	6	3.4	1.0	18.07	567	3.30	38	54
5G	10	4.4	1.2	24.75	1010	1.91	54	75
5G	16	5.7	1.2	28.01	1400	1.21	71	100
5G	25	6.9	1.4	33.57	2096	0.780	94	127
5G	35	8.1	1.4	39.2	2697	0.554	114	158
5G	50	9.8	1.6	45.4	3740	0.386	143	192
5G	70	11.6	1.6	48.0	5033	0.272	178	246
5G	95	13.3	1.8	53.22	6271	0.206	210	2987
Multicores								
7G	1.5	1.6	0.8	15.3	315	13.3	16	23
7G	2.5	2.0	0.9	17.9	445	7.98	20	32
7G	4	2.6	1.0	19.64	618	4.95	25	42
10G	1.5	1.6	0.8	17.9	420	13.3	16	23
12G	1.5	1.6	0.8	18.4	493	13.3	16	23
12G	2.5	2.0	0.9	22.17	702	7.98	20	32
12G	4	2.6	1.0	25.77	1004	4.95	25	42
18G	1.5	1.6	0.8	22.00	705	13.3	16	23
18G	2.5	2.0	0.9	25.95	1020	7.98	20	32
19G	1.5	1.6	0.8	22.79	710	13.3	16	21
19G	2.5	2.0	0.9	26.25	1030	7.98	20	29
24G	1.5	1.6	0.8	25.04	898	13.3	16	21
24G	2.5	2.0	0.9	29.37	1312	7.98	20	29
27G	2.5	2.0	0.9	31.3	1427	7.98	20	29
36G	1.5	1.6	0.8	29.3	1246	13.3	16	21
36G	2.5	2.0	0.9	35.0	1851	7.98	20	29

Current carrying capacities for unipolar cables are calculated on 3 spanned cables.
Current carrying capacities for cables are calculated on 3-4 spanned cables.
Special Bending Radius:
At the entrance to a portable device or a mobile device mechanical stress with D <8 = 6D D <12 = 6D D <20 = 6D D> 20 = 8D
Winding repeated D <8 = 6D D <12 = 6D D <20 = 6D D> 20 = 8D
Diverted to pulley D <8 = 8D D <12 = 8D D <20 = 8D D> 20 = 8D

H07RN8-F

CAVO PER POMPE (SUBMERSIBLE PUMP CABLE)

Model Product: 266-267 - 20241129



Class 5 flexible copper conductor.
Elastomeric mixture Insulation in EI4 quality.
SPECIAL sheath in polychloroprene quality EM2 WATER RESISTANT according to EN 50525-2-21 Attachments D / E

STANDARDS

CEI EN 50525-2-21 CEI 20-107/2-21 CEI 20-19/4 (CENELEC HD 22.4 S4) BS 7919:2001 NF C 32-102-4 VDE 0282-4
CEI EN60332-1-2 (CEI 20-35) BS EN 60332-1-2 NF EN 60332-1-2 DIN EN 60332-1-2

Accordingly to the standards BT 2014/35/UE- RoHS 3: 2002/95/EC

COMMON FEATURES

Particularly suited for connecting submarged pumps and cases in which the cable is permanently under water AD8, in open air, in workshops with an explosive athmosphere. When used for connections they are subjected to medium mechanical stress as: equipments in industrials and agricoltural workshops, great boilers, heating plates, portable lamps, electric tools as drills, circular saws and so on, electric home-tools, motors or trasportable generators in construction sites or agricultural plants, and so on. It can be used even in fixed layings like floors and temporary construction site set offs ect.Ozono Resistent. It can be used for indirect underground laying only with mechanical protection and standard flexible employment.

EMPLOYMENT

Minimum bending radius per D cable diameter (in mm):
Fixed installation D<8=3D D<12=3D D<20=4D D>20=4D
Free Movement D<8=4D D<12=4D D<20=5D D>20=6D

Maximum pulling stress: 15 N/mm2 section of copper dynamic applications, for fixed 50 N/mm2

PACKING

100mt. rings in thermoplastic film or drums to agree.

ENERGY TRANSMISSION WATER RESISTANT RUBBER INSULATED CABLES WITH SPECIAL SHEATH

Nominal voltage U0: 450 V
Nominal voltage U: 750 V
Test voltage: 2500 V
Maximun voltage Um: 1000V Installazioni Fisse / for fixed and protected installation
Maximun operating temperature: +60°C
Maximun short circuit temperature: +200°C
Minimum installation and laying temperature: -25°C
Min. operating temperature (without mechanical shocks): -40°c

CORE COLOURS

Single core: black

Two cores: blue-brown

Three cores: Brown - Black - Gray (o Y/G, Blue and Brown)

Four cores: blue-brown-black-gray (or Y/G instead blue)

Five cores: Y/G-blue-brown-black-gray (black no Y/G)

Multicores: black with numbers and Y/G

SHEATH COLOUR

Black

INK MARKING

GENERALCAVI - IEMMEQU <HAR> - H07RN8-F - year

NOTE

Cables can be used up to +85°C (for fixed protected installations)
OZONE RESISTANT" according to the standards EN 60811-2-1 (Test method A) and CEI EN 50396 (Test method B).
Water resistance, up to 10 bar CEI EN 50525-2-21
UV resistant

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H07RN8-F

CAVO PER POMPE (SUBMERSIBLE PUMP CABLE)

Model Product: 266-267 - 20241129

Cores number	Cross section	Approx conductor diameter	Insulation medium thickness	Approx external production diameter	Approx cable weight	Electric resistance at 20°C	Mobile service Current carrying capacities
(N°)	(mm²)	(mm)	(mm)	(mm)	(kg/km)	(Ohm/km)	(A)
Single core							
1x	1.5	1.6	0.8	5.9	50	13.3	16
1x	2.5	2	0.9	6.50	65	7.98	25
1x	4	2.6	1.0	7.4	89	4.95	30
1x	6	3.4	1.0	8.10	115	3.30	38
1x	10	4.4	1.2	10.4	190	1.91	53
1x	16	5.7	1.2	11.62	259	1.21	71
1x	25	6.9	1.4	13.74	375	0.780	94
1x	35	8.1	1.4	15.35	492	0.554	117
1x	50	9.8	1.6	17.68	675	0.386	148
1x	70	11.6	1.6	20.00	908	0.272	185
1x	95	13.3	1.8	22.12	1171	0.206	222
1x	120	15.1	1.8	24.54	1445	0.161	260
1x	150	16.8	2.0	26.87	1783	0.129	300
1x	185	18.6	2.2	28.89	2125	0.106	341
1x	240	21.4	2.4	32.62	2733	0.0801	407
1x	300	23.9	2.6	36.46	3348	0.0641	468
Two cores							
2X	1	1.3	0.8	8.4	90	19.5	10
2x	1.5	1.6	0.8	9.10	109	13.3	18
2x	2.5	2	0.9	10.80	158	7.98	27
2x	4	2.6	1.0	12.40	217	4.95	34
2x	6	3.4	1.0	13.80	282	3.30	43
2x	10	4.4	1.2	19.37	539	1.91	60
2x	16	5.7	1.2	21.76	722	1.21	79
2x	25	6.9	1.4	25.93	1043	0.78	105
Three cores							
3G	1	1.3	0.8	9.07	110	19.5	10
3G	1.5	1.6	0.8	10.18	134	13.3	16
3G	2.5	2.0	0.9	11.58	196	7.980	25
3G	4	2.6	1.0	13.3	271	4.95	29
3G	6	3.4	1.0	14.78	355	3.30	36
3G	10	4.4	1.2	20.73	674	1.91	51
3G	16	5.7	1.2	23.26	913	1.21	67
3G	25	6.9	1.4	27.69	1324	0.78	89

H07RN8-F

CAVO PER POMPE (SUBMERSIBLE PUMP CABLE)

Model Product: 266-267 - 20241129

Cores number	Cross section	Approx conductor diameter	Insulation medium thickness	Approx external production diameter	Approx cable weight	Electric resistance at 20°C	Mobile service Current carrying capacities
(N°)	(mm²)	(mm)	(mm)	(mm)	(kg/km)	(Ohm/km)	(A)
3G	35	8.1	1.4	30.95	1754	0.554	110
3G	50	9.8	1.6	35.80	2409	0.386	138
3G	70	11.6	1.6	40.45	3211	0.272	172
3G	95	13.3	1.8	45.08	4210	0.206	204
3G	120	15.1	1.8	49.93	5205	0.161	238
3G	150	16.8	2.0	54.78	6389	0.129	273
3G	185	18.6	2.2	58.99	7591	0.106	309
3G	240	21.4	2.4	67.85	9944	0.0801	365
Four cores							
4G	1	1.3	0.8	10.0	136	19.5	10
4G	1.5	1.6	0.8	10.76	166	13.3	16
4G	2.5	2.0	0.9	12.73	241	7.98	20
4G	4	2.6	1.0	14.63	336	4.95	30
4G	6	3.4	1.0	16.44	449	3.30	37
4G	10	4.4	1.2	22.57	833	1.91	52
4G	16	5.7	1.2	25.36	1138	1.21	69
4G	25	6.9	1.4	30.75	1714	0.780	92
4G	35	8.1	1.4	34.23	2204	0.554	114
4G	50	9.8	1.6	39.56	3029	0.386	143
4G	70	11.6	1.6	44.89	4121	0.272	178
4G	95	13.3	1.8	50.36	5361	0.206	210
4G	120	15.1	1.8	55.33	6546	0.161	246
4G	150	16.8	2.0	60.87	8095	0.129	282
4G	185	18.6	2.2	65.70	9652	0.106	319
4G	240	21.4	2.4	75.70	12614	0.0801	377
Five cores							
5G	1	1.3	0.8	11.0	168	19.5	10
5G	1.5	1.6	0.8	11.80	206	13.3	16
5G	2.5	2.0	0.9	13.96	297	7.98	20
5G	4	2.6	1.0	16.25	422	4.95	30
5G	6	3.4	1.0	18.07	567	3.30	38
5G	10	4.4	1.2	24.75	1010	1.91	54
5G	16	5.7	1.2	28.01	1400	1.21	71
5G	25	6.9	1.4	33.57	2096	0.78	94
Multicores							

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H07RN8-F

CAVO PER POMPE (SUBMERSIBLE PUMP CABLE)

Model Product: 266-267 - 20241129

Cores number	Cross section	Approx conductor diameter	Insulation medium thickness	Approx external production diameter	Approx cable weight	Electric resistance at 20°C	Mobile service Current carrying capacities
(N°)	(mm²)	(mm)	(mm)	(mm)	(kg/km)	(Ohm/km)	(A)
7G	1.5	1.6	0.8	15.3	315	13.3	16
7G	2.5	2.0	0.9	17.9	445	7.98	20
7G	4	2.6	1.0	19.64	618	4.95	25
10G	1.5	1.6	0.8	17.5	420	13.3	16
12G	1.5	1.6	0.8	18.43	493	13.3	16
12G	2.5	2.0	0.9	22.17	702	7.98	20
12G	4	2.6	1.0	25.77	1004	4.95	25
19G	1.5	1.6	0.8	22.79	710	13.3	16
19G	2.5	2.0	0.9	26.25	1030	7.98	20
24G	1.5	1.6	0.8	25.04	898	13.3	16
24G	2.5	2.0	0.9	29.37	1312	7.98	20
36G	1.5	1.6	0.8	29.3	1246	13.3	16
36G	2.5	2.0	0.9	35.04	1851	7.98	20

Current carrying capacities for unipolar cables are calculated on 3 spanned cables.
Current carrying capacities for cables are calculated on 3-4 spanned cables.
Special Bending Radius:
At the entrance to a portable device or a mobile device
mechanical stress with D <8 = 6D D <12 = 6D D <20 = 6D D> 20 = 8D
Winding repeated D <8 = 6D D <12 = 6D D <20 = 6D D> 20 = 8D
Diverted to pulley D <8 = 8D D <12 = 8D D <20 = 8D D> 20 = 8D

H01N2-D

CAVI PER SALDATRICI (ARC WELDING CABLES)

Model Product: 256 - 20250311

Flexible conductor bare or tinned copper, class 6.
Paper tape.
Elastomeric mixture Insulation in EM5 quality.

STANDARDS

CEI EN 50525-2-81 CEI 20-19/6 (CENELEC HD 22.6 S2) CEI EN 60332-1-2 (CEI 30-35) BS EN 60332-1-2 NF EN 60332-1-2 DIN EN 60332-1-2
EN 60811-404

Accordingly to the standards BT 2014/35/UE- 2011/65/EU (RoHS 3)

CABLES FOR ARC WELDING WITH NORMAL FLEXIBILITY

Nominal voltage U0: 100 V
Nominal voltage U: 100 V
Test voltage: 1000 V
Maximun operating temperature: +85°C
Maximun short circuit temperature: +250°C
Minimum installation and laying temperature: -20°C
Min. operating temperature (without mechanical shocks): -35°C

CORE COLOURS

Single core: Black ; On request Red

INK MARKING

GENERAL CAVI - IEMMEQU <HAR> - H01N2-D - year

COMMON FEATURES

For portable electrode-carriers use. It's primary to follow the table's data of the user guide CEI 20-40 in merit to the service cycles, the intensities of current and the voltage fall. In order to reduce the effects of the alternating current on the voltage fall, the cables forming the welding circuit must be maintained as close as possible.For use in the automobile industry,in shipbuilding in transport and conveyor,tool marking machinery, welding robots ect.. They are suitable for use in dry and damp conditions.Outdoor use for a limited.

EMPLOYMENT

Minimum bending radius per D cable diameter (in mm):
6D
During installation, when the cable is pulled, it has not to revolve about its axis

Maximum pulling stress: 50 Nmm²

PACKING

100mt. rings in thermoplastic film or drums to agree.

NOTE

Characteristics Particular in protected/fixed installation and without mechanical stresses minimum use temperature -40 ° C
CEI 20-40 "Guide for the correct use of low voltage cables"
Oil resistant to EN 60811-404
Being black cables are particularly suitable for resistance to UV rays.
The cable also maintains its high flexibilty under the effect of ozone, light, oxygen, inert gas, oil or petrol.

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H01N2-D

CAVI PER SALDATRICI (ARC WELDING CABLES)

Model Product: 256 - 20250311

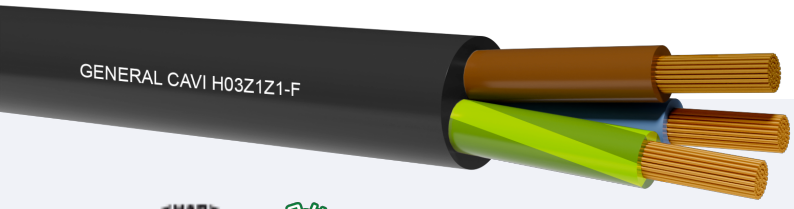
Cores number	Cross section	Approx conductor diameter	Insulation medium thickness	External diameter		Approx cable weight	Electric resistance at 20°C red copper	Current carrying capacities 85°C	
				Minimum	maximum			Continuous Load 100%	Intermittent load 85%
(N°)	(mm²)	(mm)	(mm)	(mm)	(mm)	(kg/km)	(Ohm/km)	(A)	(A)
Single core									
1x	10	4.2	2.0	7.7	9.7	148	1.91	100	101
1x	16	5.3	2.0	8.8	11.0	207	1.21	135	138
1x	25	6.2	2.0	10.1	12.7	289	0.780	180	186
1x	35	7.7	2.0	11.4	14.2	380	0.554	225	235
1x	50	9.0	2.2	13.2	16.5	532	0.386	285	299
1x	70	10.7	2.4	15.3	19.2	730	0.272	355	375
1x	95	12.8	2.6	17.1	21.4	955	0.206	430	456
1x	120	15.0	2.8	19.2	24.0	1184	0.161	500	532
1x	150	16.5	3.0	21.1	26.4	1466	0.129	580	619
1x	185	17.9	3.2	23.1	28.9	1760	0.106	665	711
1x	240*	20.1	3.4	25.8	32.1	2010	0.0801	780	836

MINIMUM ORDER QUANTITY
*No IMQ <HAR>

H03Z1Z1-F

Cavi L.S.0.H.

Model Product: 283-284 - 20160412



Class 5 flexible copper conductor.
Thermoplastic mixture Insulation in TI6 quality.
Thermoplastic sheath in TM7 quality.

STANDARDS

CEI EN 50525-3-11 CEI 20-20/14 (CENELEC HD 21.14 S1)
CEI EN 60332-1-2(CEI 20-35) CEI EN 50267 CEI EN 60684

Accordingly to the standards BT 2014/35/UE- 2011/65/EU (RoHS 3)

FLEXIBLE CABLES (CORDS) INSULATED AND SHEATHED WITH HALOGEN-FREE L.S.0.H. THERMOPLASTIC COMPOUNDS

Nominal voltage U0: 300 V
Nominal voltage U: 300 V
Test voltage: 2000 V
Maximun operating temperature: +60°C
Maximun short circuit temperature: +150°C
Minimum installation and laying temperature: +5°C
Min. operating temperature (without mechanical shocks): -10°C

COMMON FEATURES

For inside domestic rooms, kitchen and office use. Suitable for domestic device, also in wet site, AD2. Where cords having a low level of emission of smoke and corrosive gases are required in case of fire or burning. Not suitable for outside permanent use, for industrial and agricultural buildings, and not suitable for industrial tools too. Not recommended for the cabling of fixed installations. Not suitable for kitchen and heating device. Particularly suitable for frequent bending and twisting.

EMPLOYMENT

Minimum bending radius per D cable diameter (in mm):
Fixed installation D <8 D = 3D <3D 12 = D <20 = 4D D> 20 = 4D
Free Movement D <8 D = 4D <12 = 4D D <D 5D = 20> 20 = 6D
At the entrance to a portable device or a mobile device
mechanical stress with D <8 = 6D D <12 = 6D D <20 = 6D D> 20 = 8D
Festoons eg. gantry crane for D <8 = 6D D <12 = 6D D <20 = 6D D> 20 = 8D
Winding repeated D <8 = 6D D <12 = 6D D <20 = 6D D> 20 = 8D
Diverted to pulley D <8 = 8D D <12 = 8D D <20 = 8D D> 20 = 8D

Maximum pulling stress: 15 N/mm2 section of copper dynamic applications, for fixed 50 N/mm2

PACKING

100mt. rings in thermoplastic film or drums to agree.

CORE COLOURS

Two cores: blue-brown

Three cores: brown-black-gray (or blue-brown-Y/G)

Four cores: blue-brown-black-gray (or Y/G instead blue)

SHEATH COLOUR

Black

INK MARKING

GENERAL CAVI - IEMMEQU <HAR> - H03Z1Z1-F - year

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H03Z1Z1-F

Cavi L.S.O.H.

Model Product: 283-284 - 20160412

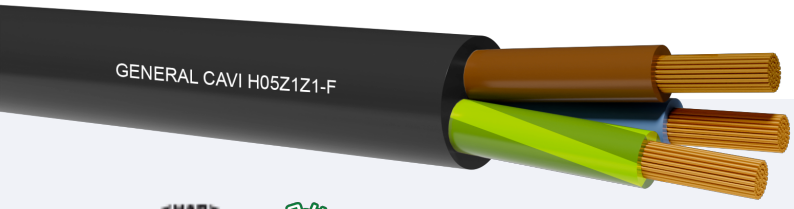
Conductor Number	Cross section	Approx conductor diameter	Iinsulation thickness	External diameter		Approx cable weight	Electric resistance at 20°C	Current carrying capacities 30°C
				Minimum	maximum			
(N°)	(mm²)	(mm)	(mm)	(mm)	(mm)	(kg/km)	(Ohm/km)	(A)
Two cores								
2x	0.5	0.9	0.5	4.6	5.9	34	39	3
2x	0.75	1	0.5	4.9	6.3	42	26	6
Three cores								
3G	0.5	0.9	0.5	4.9	6.3	41	39	3
3G	0.75	1	0.5	5.2	6.7	51	26	6
Four cores								
4G	0.5	0.9	0.5	5.4	6.9	49	39	3
4G	0.75	1	0.5	5.7	7.3	62	26	6

Minimum order quantity

H05Z1Z1-F

Cavi L.S.0.H.

Model Product: 276-277 - 20160412



Class 5 flexible copper conductor.
Thermoplastic mixture Insulation in TI6 quality.
Thermoplastic sheath in TM7 quality.

STANDARDS

CEI EN 50525-3-11 CEI 20-20/14 (CENELEC HD 21.14 S1)
CEI EN 60332-1-2(CEI 20-35) CEI EN 50267 CEI EN 60684

Accordingly to the standards BT 2014/35/UE- 2011/65/EU (RoHS 3)

FLEXIBLE CABLES (CORDS) INSULATED AND SHEATHED WITH HALOGEN-FREE L.S.0.H. THERMOPLASTIC COMPOUNDS

Nominal voltage U0: 300 V
Nominal voltage U: 500 V
Test voltage: 2000 V
Maximun operating temperature: +60°C
Maximun short circuit temperature: +150°C
Minimum installation and laying temperature: +5°C
Min. operating temperature (without mechanical shocks): -10°C

COMMON FEATURES

For inside domestic rooms, kitchen and office use. Suitable for domestic device, also in dry site, AD2. Where cords having a low level of emission of smoke and corrosive gases are required in case of fire or burning. Not suitable for outside permanent use, for industrial and agricultural buildings, and not suitable for industrial tools too. Not recommended for the cabling of fixed installations. It can be used for kitchen and heating device, when the radiation or hot-parts contact risks is non-existent. Particularly suitable for frequent bending and twisting.

EMPLOYMENT

Minimum bending radius per D cable diameter (in mm):
Fixed installation D <8 D = 3D <3D 12 = D <20 = 4D D> 20 = 4D
Free Movement D <8 D = 4D <12 = 4D D <D 5D = 20> 20 = 6D
At the entrance to a portable device or a mobile device
mechanical stress with D <8 = 6D D <12 = 6D D <20 = 6D D> 20 = 8D
Festoons eg. gantry crane for D <8 = 6D D <12 = 6D D <20 = 6D D> 20 = 8D
Winding repeated D <8 = 6D D <12 = 6D D <20 = 6D D> 20 = 8D
Diverted to pulley D <8 = 8D D <12 = 8D D <20 = 8D D> 20 = 8D

Maximum pulling stress: 15 N/mm2 section of copper dynamic applications, for fixed 50 N/mm2

PACKING

100mt. rings in thermoplastic film or drums to agree.

CORE COLOURS

Two cores: blue-brown

Three cores: Brown - Black - Gray (o Y/G, Blue and Brown)

Four cores: blue-brown-black-gray (or Y/G instead blue)

Five cores: Y/G-blue-brown-black-gray (or black instead Y/G)

SHEATH COLOUR

Black

INK MARKING

GENERAL CAVI - IEMMEQU <HAR> - H05Z1Z1-F - year

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H05Z1Z1-F

Cavi L.S.O.H.

Model Product: 276-277 - 20160412

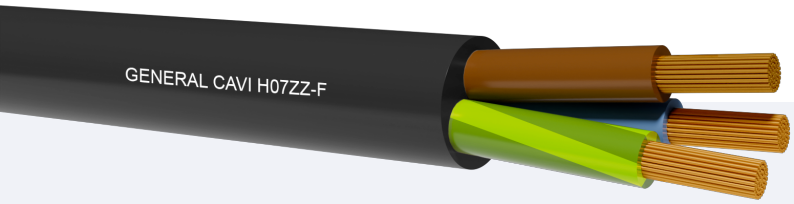
Cores number	Cross section	Approx conductor diameter	Insulation medium thickness	External diameter		Approx cable weight	Electric resistance at 20°C	Current carrying capacities
				Minimum	maximum			30°C Mobile Service
(N°)	(mm²)	(mm)	(mm)	(mm)	(mm)	(kg/km)	(Ohm/km)	(A)
Two cores								
2x	0.75	1.1	0.6	5.7	7.2	53	26.0	6
2x	1	1.3	0.6	5.9	7.5	61	19.5	12.5
2x	1.5	1.6	0.7	6.8	8.6	81	13.3	17
2x	2.5	2	0.8	8.4	10.6	125	7.98	22.5
Three cores								
3G	0.75	1.1	0.6	6.0	7.6	63	26.0	30
3G	1	1.3	0.6	6.3	8.0	73	19.5	10
3G	1.5	1.6	0.7	7.4	9.4	100	13.3	12.5
3G	2.5	2	0.8	9.2	11.4	157	7.98	17
Four cores								
4G	0.75	1.1	0.6	6.6	8.3	76	26.0	22.5
4G	1	1.3	0.6	7.1	9.0	91	19.5	30
4G	1.5	1.6	0.7	8.4	10.5	127	13.3	40
4G	2.5	2	0.8	10.1	12.5	191	7.98	12.5
Five cores								
5G	0.75	3.4	0.6	7.4	9.3	96	26.0	17
5G	1	1.3	0.6	7.8	9.8	110	19.5	22.5
5G	1.5	1.6	0.7	9.3	11.6	160	13.3	30
5G	2.5	2	0.8	11.2	13.9	238	7.98	40

Minimum order quantity

H07ZZ-F

CPR Cca-s1b,d1,a1

Model Product: 272-273 - 20220622



Class 5 flexible copper conductor.
Elastomeric mixture Insulation in EI8 quality.
LSZH Cross-linked sheath, EM8.

STANDARDS

CEI EN 50525-3-21 CEI 20-107/3-21
EN 50575:2014 + EN 50575/A1:2016

Accordingly to the standards BT 2014/35/UE- 2011/65/EU (RoHS 3)

CABLES OF RATED VOLTAGES UP TO AND INCLUDING 450/750V SINGLE AND MULTICORES FLEXIBLE CABLE WITH L.S.O.H.

- Nominal voltage U0: 450 V
- Nominal voltage U: 750 V
- Test voltage: 2500 V
- Maximun voltage Um: 1000V Installazioni Fisse / for fixed and protected installation
- Maximun operating temperature: +90°C
- Maximun short circuit temperature: +250°C
- Minimum installation and laying temperature: -5°C
- Min. operating temperature (without mechanical shocks): -40°C

COMMON FEATURES

Locations where a low level of emission of smoke and corrosive gases are required in case of fire or burning; use in industrial and agricultural workshops, building sites, for heavy duty applications and supplying industrial and agricultural machines and appliances where cables are subject to medium mechanical stresses (e.g. heating plates, inspection lamps, electric tools such as drills, circular saws, and domestic electric tools) use in dry, humid or moist rooms; fixed installations e.g. on rough-cast in temporary buildings and huts for accommodation purposes .Supply of electricity and communications in buildings and other civil engineering works with the objective of limiting the generation and spread of fire and smoke.In addition the cables are especially suitable for use as connection to machine tools

EMPLOYMENT

Minimum bending radius per D cable diameter (in mm):
Fixed installation D<8=3D D<12=3D D<20=4D D>20=4D
Free Movement D<8=4D D<12=4D D<20=5D D>20=6D

Maximum pulling stress: 15 N/mm2 section of copper dynamic applications, for fixed 50 N/mm2

PACKING

100mt. rings in thermoplastic film or drums to agree.

CORE COLOURS

Single core: black

Two cores: blue-brown

Three cores: Brown - Black - Gray (o Y/G, Blue and Brown)

Four cores: blue-brown-black-gray (or Y/G instead blue)

Five cores: Y/G-blue-brown-black-gray (black no Y/G)

Multicores: black with numbers and Y/G

SHEATH COLOUR

Black

INK MARKING

GENERAL CAVI -Cca-s1b,d1,a1- IEMMEQU <HAR> - H07ZZ-F - year

NOTE

UV resistant

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H07ZZ-F

CPR Cca-s1b,d1,a1

Model Product: 272-273 - 20220622

Cores number	Cross section	Approx conductor diameter	Insulation medium thickness	External diameter		Approx cable weight	Electric resistance at 20°C	Mobile service Current carrying capacities	Current carrying capacities in Air Fixed
				Minimum	maximum				
(N°)	(mm²)	(mm)	(mm)	(mm)	(mm)	(kg/km)	(Ohm/km)	(A)	(A)
Single core									
1x	4	2.6	1.0	7.2	9.0	89	4.95	30	45
1x	6	3.4	1.0	7.9	9.8	115	3.30	38	58
1x	10	4.4	1.2	9.5	11.9	190	1.91	53	80
1x	16	5.7	1.2	10.8	13.4	259	1.21	71	107
1x	25	6.9	1.4	12.7	15.8	375	0.780	94	135
1x	35	8.1	1.4	14.3	17.9	492	0.554	117	169
1x	50	9.8	1.6	16.5	20.6	675	0.386	148	207
1x	70	11.6	1.6	18.6	23.3	908	0.272	185	268
1x	95	13.3	1.8	20.8	26.0	1171	0.206	222	328
1x	120	15.1	1.8	22.8	28.6	1445	0.161	260	383
1x	150	16.8	2.0	25.3	31.4	1783	0.129	300	444
1x	185	18.6	2.2	27.6	34.4	2125	0.106	341	510
1x	240	21.4	2.4	30.6	38.3	2733	0.0801	407	607
1x	300	23.9	2.6	33.5	41.9	3348	0.0641	468	703
1x	400	27.5	2.8	37.4	46.8	4800	0.0486	533	823
1x	500	35.0	3.0	41.3	52.0	5800	0.0384	634	946
1x	630	39.0	3.0	45.5	57	6800	0.0287	742	1088
Two cores									
2X	1	1.3	0.8	7.7	10.0	90	19.5	10	19
2x	1.5	1.6	0.8	8.5	11.0	109	13.3	18	27
2x	2.5	2	0.9	10.2	13.1	158	7.98	27	37
2x	4	2.6	1.0	11.8	15.1	217	4.95	34	50
2x	6	3.4	1.0	13.1	16.8	282	3.30	43	64
2x	10	4.4	1.2	17.7	22.6	539	1.91	60	88
2x	16	5.7	1.2	20.2	25.7	722	1.21	79	119
2x	25	6.9	1.4	24.3	30.7	1043	0.780	105	161
Three cores									
3G	1	1.3	0.8	8.3	10.7	110	19.5	10	18
3G	1.5	1.6	0.8	9.2	11.9	134	13.3	16	24
3G	2.5	2.0	0.9	10.9	14.0	196	7.98	25	33
3G	4	2.6	1.0	12.7	16.2	271	4.95	29	45
3G	6	3.4	1.0	14.1	18.0	355	3.3	36	58
3G	10	4.4	1.2	19.1	24.2	674	1.91	51	80
3G	16	5.7	1.2	21.8	27.6	913	1.21	67	107
3G	25	6.9	1.4	26.1	33.0	1324	0.78	89	141

H07ZZ-F

CPR Cca-s1b,d1,a1

Model Product: 272-273 - 20220622

Cores number	Cross section	Approx conductor diameter	Insulation medium thickness	External diameter		Approx cable weight	Electric resistance at 20°C	Mobile service Current carrying capacities	Current carrying capacities in Air Fixed
				Minimum	maximum				
(N°)	(mm²)	(mm)	(mm)	(mm)	(mm)	(kg/km)	(Ohm/km)	(A)	(A)
3G	35	8.1	1.4	29.3	37.1	1754	0.554	110	176
3G	50	9.8	1.6	34.1	42.9	2409	0.386	138	216
3G	70	11.6	1.6	38.4	48.3	3211	0.272	172	279
3G	95	13.3	1.8	43.3	54	4210	0.206	204	342
3G	120	15.1	1.8	47.4	60	5205	0.161	238	400
3G	150	16.8	2.0	52	66	6389	0.129	273	464
3G	185	18.6	2.2	57	72	7591	0.106	309	533
3G	240	21.4	2.4	65	82	9944	0.0801	365	634
3G	300	23.9	2.6	72	90	11545	0.0641	415	736
Four cores									
4G	1	1.3	0.8	9.2	11.9	136	19.5	10	18
4G	1.5	1.6	0.8	10.2	13.1	166	13.3	16	24
4G	2.5	2.0	0.9	12.1	15.5	241	7.98	20	33
4G	4	2.6	1.0	14.0	17.9	336	4.95	30	45
4G	6	3.4	1.0	15.7	20.0	449	3.30	37	58
4G	10	4.4	1.2	20.9	26.5	833	1.91	52	80
4G	16	5.7	1.2	23.8	30.1	1138	1.21	69	107
4G	25	6.9	1.4	28.9	36.6	1714	0.780	92	141
4G	35	8.1	1.4	32.5	41.1	2204	0.554	114	176
4G	50	9.8	1.6	37.7	47.5	3029	0.386	143	216
4G	70	11.6	1.6	42.7	54	4121	0.272	178	279
4G	95	13.3	1.8	48.4	61	5361	0.206	210	342
4G	120	15.1	1.8	53	66	6546	0.161	246	400
4G	150	16.8	2.0	58	73	8095	0.129	282	464
4G	185	18.6	2.2	64	80	9652	0.106	319	533
4G	240	21.4	2.4	72	91	12614	0.0801	377	634
4G	300	23.9	2.6	80	101	17045	0.0641	430	736
Five cores									
5G	1	1.3	0.8	10.2	13.1	168	19.5	10	18
5G	1.5	1.6	0.8	11.2	14.4	206	13.3	16	24
5G	2.5	2.0	0.9	13.3	17	297	7.98	20	33
5G	4	2.6	1.0	15.6	19.9	422	4.95	30	45
5G	6	3.4	1.0	17.5	22.2	567	3.30	38	58
5G	10	4.4	1.2	22.9	29.1	1010	1.91	54	80
5G	16	5.7	1.2	26.4	33.3	1400	1.21	71	107
5G	25	6.9	1.4	32	40	2096	0.780	94	141

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H07ZZ-F

CPR Cca-s1b,d1,a1

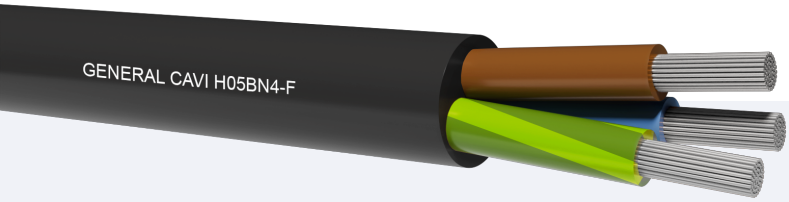
Model Product: 272-273 - 20220622

Cores number	Cross section	Approx conductor diameter	Insulation medium thickness	External diameter		Approx cable weight	Electric resistance at 20°C	Mobile service Current carrying capacities	Current carrying capacities in Air Fixed
				Minimum	maximum				
(N°)	(mm²)	(mm)	(mm)	(mm)	(mm)	(kg/km)	(Ohm/km)	(A)	(A)
Multicores									
7G	1.5	1.6	0.8	13.4	17.2	315	13.3	16	24
7G	2.5	2.0	0.9	15.7	20	445	7.98	20	33
7G	4	2.6	1.0	18.2	23.2	618	4.95	25	45
10G	1.5	1.6	0.8	15.95	20.2	420	13.3	16	24
12G	1.5	1.6	0.8	17.6	22.4	493	13.3	16	24
12G	2.5	2.0	0.9	20.6	26.2	702	7.98	20	33
12G	4	2.6	1.0	24.4	30.9	1004	4.95	25	45
19G	1.5	1.6	0.8	20.7	26.3	710	13.3	16	24
19G	2.5	2.0	0.9	24.4	30.9	1030	7.98	20	33
24G	1.5	1.6	0.8	24.3	30.7	898	13.3	16	24
24G	2.5	2.0	0.9	28.8	36.4	1312	7.98	20	33
36G	1.5	1.6	0.8	27.8	35.2	1246	13.3	16	24
36G	2.5	2.0	0.9	33.2	41.8	1851	7.98	20	33

Current carrying capacities for unipolar cables are calculated on 3 spanned cables.
At the entrance to a portable device or a mobile device mechanical stress with Festoons eg. gantry crane for D<8=6D D<12=6D D<20=6D D>20=8D
Winding repeated D<8=6D D<12=6D D<20=6D D>20=8D
Diverted to pulley D<8=8D D<12=8D D<20=8D D>20=8D

H05BN4-F

Model Product: 274-275 - 20160412



Flexible conductor bare or tinned copper, class 5.
Special EI7 compounds insulation.
Special compounds sheath, EM7.

STANDARDS

CEI EN 50525-2-21 CEI 20-107/2-21 CEI 20-19/12 (CENELEC HD 22.12 S2) BS 7919 NF C 32-102-12 VDE 0282-12

CEI EN60332-1-2 (CEI 20-35) BS EN 60332-1-2 NF EN 60332-1-2 DIN EN 60332-1-2

Accordingly to the standards BT 2014/35/UE- 2011/65/EU (RoHS 3)

COMMON FEATURES

For general use in domestic premises, kitchens and office and for supplying appliance where the cables are subjected to low mechanical stresses (eg cooking appliance, soldering irons, toaster). Unsuitable for permanent outdoor use, agricultural and industrial use and also for not domestic tools supply, exept when builded with black appropriate tested sheath or when the constructor provide suitable alternative protection. The maximum conductor temperature in normal use: 90°C. While high temperature use, skin contact must be avoided.

EMPLOYMENT

Minimum bending radius per D cable diameter (in mm):
Fixed installation D<8=3D D<12=3D
Free Movement D<8=4D D<12=4D
At the entrance to a portable device or a mobile device
mechanical stress with D <8 = 6D D <12 = 6D
Festoons eg. gantry crane for D <8 = 6D D <12 = 6D D
Winding repeated D <8 = 6D D <12 = 6D D
Diverted to pulley D <8 = 8D D <12 = 8D D

Maximum pulling stress: 15 N/mm2 section of copper dynamic applications, for fixed 50 N/mm2

PACKING

100mt. ring in thermoplastic film. Drums to agree.

HEAVY HEAT RESISTANT CSP OR OTHER EQUIVALENT SYNTHETIC ELASTOMER SHEATHED CABLES FOR MAXIMUM CONDUCTOR TEMPERATURE OF 90°C

Nominal voltage U0: 300 V
Nominal voltage U: 500 V
Test voltage: 2000 V
Maximun operating temperature: +90°C
Maximun short circuit temperature: +250°C
Minimum installation and laying temperature: -20°C
Min. operating temperature (without mechanical shocks): -35°C

CORE COLOURS

Two cores: blue-brown

Three cores: Brown - Black - Gray (o Y/G, Blue and Brown)

SHEATH COLOUR

Black

INK MARKING

year GENERAL CAVI - IEMMEQU <HAR> - H05BN4-F

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H05BN4-F

Model Product: 274-275 - 20160412

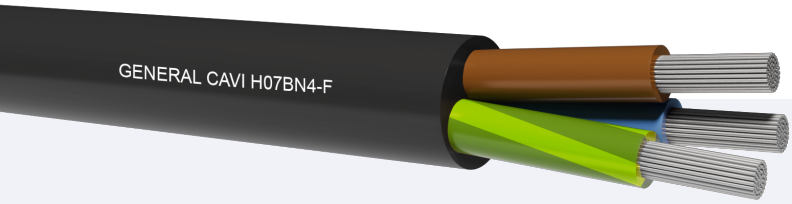
Conductor Number	Cross section	Maximum conductor diameter	Iinsulation thickness	External diameter		Electric resistance at 20°C	Approx cable weight	Current carrying capacities in air 30°C
				Minimum	maximum			
(N°)	(mm²)	(mm)	(mm)	(mm)	(mm)	(Ohm/km)	(kg/km)	(A)
Two cores								
2x	0.75	0.95	0.6	5.7	7.4	26.0	44	6
2x	1	1.30	0.6	6.1	8.0	19.5	55	10
Three cores								
3G	0.75	0.95	0.6	6.2	8.1	26.0	60	6
3G	1	1.30	0.6	6.5	8.5	19.5	72	10

The admissible current is suitable for the most cases. Further information must be searched for unusual case, like high temperature ambient (more than 30°C) or very long cable wire or nsufficient ventilation.

H07BN4-F

CPR Eca

Model Product: 274-275 - 20250218



Flexible conductor bare or tinned copper, class 5.
Special EI7 compounds insulation.
Special compounds sheath, EM7.

STANDARDS

CEI EN 50525-2-21 CEI 20-107/2-21 CEI 20-19/12 (CENELEC HD 22.12 S2) BS 7919 NF C 32-102-12 VDE 0282-12
EN 50575:2014 + EN 50575/A1:2016

Accordingly to the standards BT 2014/35/UE- 2011/65/EU (RoHS 3)

HEAVY HEAT RESISTANT CSP OR OTHER EQUIVALENT SYNTHETIC ELASTOMER SHEATHED CABLES FOR MAXIMUM CONDUCTOR TEMPERATURE OF 90°C

Nominal voltage U0: 450 V
Nominal voltage U: 750 V
Test voltage: 2500 V
Maximun operating temperature: +90°C
Maximun short circuit temperature: +250°C
Minimum installation and laying temperature: -20°C
Min. operating temperature (without mechanical shocks): -35°C

COMMON FEATURES

In dry, humid, or moist rooms, in open air, in workshop having an explosive atmosphere, for medium mechanical stresses (like for industrial and agricultural workshop appliances, large boiling installations, heating plates, inspection lamps, electrical tools such as drills, circular saws, domestic electric tools and alsofor trasportable motors or machines on buildings sites or agricultural workings etc, also for fixed installations, (like on rought-cast in
temporary buildings huts, for accomodation purposes; suitable for the wiring of constructional components in lifting appliances, machinery etc. Use up to 1000V a.c. is permitted for fixed and protected installation (in conduit or appliances) and also for motor connections of hosting motors and similar. Maximum conductor temperature: 90°C. While high temperature use, skin contact must be avoided. Black sheath is required for permanent outdoor use.Supply of electricity and communications in buildings and other civil engineering works with the objective of limiting the generation and spread of fire and smoke

EMPLOYMENT

Minimum bending radius per D cable diameter (in mm):
Fixed installation D <8 D = 3D <3D 12 = D <20 = 4D D> 20 = 4D
Free Movement D <8 D = 4D <12 = 4D D <D 5D = 20> 20 = 6D

Maximum pulling stress: 15 N/mm2 section of copper dynamic applications, for fixed 50 N/mm2

CORE COLOURS

Single core: black

Two cores: blue-brown

Three cores: Brown - Black - Gray (o Y/G, Blue and Brown)

Four cores: blue-brown-black-gray (or Y/G instead blue)

Five cores: Y/G-blue-brown-black-gray (black no Y/G)

Multicores: black with numbers and Y/G

SHEATH COLOUR

Black

INK MARKING

year GENERAL CAVI - IEMMEQU <HAR> - H07BN4-F

NOTE

Special features :
OZONE RESISTANT" according to the standards CEI EN 60811-2-1 (Test method A) and CEI EN 50396 (Test method B).RI (Hydrocarbon Resistant) CEI 20-34 / 0-1 and PQA to OIL & GAS specifications.

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H07BN4-F

CPR Eca

Model Product: 274-275 - 20250218

Cores number	Cross section	Approx conductor diameter	Insulation medium thickness	External diameter		Approx cable weight	Electric resistance at 20°C	Mobile service Current carrying capacities	Current carrying air free
				Minimum	maximum				
(N°)	(mm²)	(mm)	(mm)	(mm)	(mm)	(kg/km)	(Ohm/km)	(A)	(A)
Single core									
1x	1.5	1.6	0.8	5.7	7.1	50	13.3	16	24
1x	2.5	2	0.9	6.3	7.9	65	7.98	25	33
1x	4	2.6	1	7.2	9.0	89	4.95	30	45
1x	6	3.4	1	7.9	9.8	115	3.30	38	58
1x	10	4.4	1.2	9.5	11.9	190	1.91	53	80
1x	16	5.7	1.2	10.8	13.4	259	1.21	71	107
1x	25	6.9	1.4	12.7	15.8	375	0.780	94	135
1x	35	8.1	1.4	14.3	17.9	492	0.554	117	169
1x	50	9.8	1.6	16.5	20.6	675	0.386	148	207
1x	70	11.6	1.6	18.6	23.3	908	0.272	185	268
1x	95	13.3	1.8	20.8	26.0	1171	0.206	222	328
1x	120	15.1	1.8	22.8	28.6	1445	0.161	260	383
1x	150	16.8	2.0	25.2	31.4	1783	0.129	300	444
1x	185	18.6	2.2	27.6	34.4	2125	0.106	341	510
1x	240	21.4	2.4	30.6	38.3	2733	0.0801	407	607
1x	300	23.9	2.6	33.5	41.9	3348	0.0641	468	703
1x	400	27.5	2.8	37.4	46.8	3870	0.0486	553	823
1x	500	35.0	3.0	41.3	52.0	4233	0.0384	634	946
1x	630	39.0	3.0	45.5	57.0	6800	0.0287	742	1088
Two cores									
2X	1	1.3	0.8	7.7	10.0	90	19.5	10	19
2x	1.5	1.6	0.8	8.5	11.0	109	13.3	18	27
2x	2.5	2	0.9	10.2	13.1	158	7.98	27	37
2x	4	2.6	1.0	11.8	15.1	217	4.95	34	50
2x	6	3.4	1.0	13.1	16.8	282	3.3	43	64
2x	10	4.4	1.2	17.7	22.6	539	1.91	60	88
2x	16	5.7	1.2	20.2	25.7	722	1.21	79	119
2x	25	6.9	1.4	24.3	30.7	1043	0.78	105	161
Three cores									
3G	1	1.3	0.8	8.3	10.7	110	19.5	10	18
3G	1.5	1.6	0.8	9.2	11.9	134	13.3	16	24
3G	2.5	2.0	0.9	10.9	14.0	196	7.98	25	33
3G	4	2.6	1.0	12.7	16.2	271	4.95	29	45
3G	6	3.4	1.0	14.1	18.0	355	3.30	36	58
3G	10	4.4	1.2	19.1	24.2	674	1.91	51	80

H07BN4-F

CPR Eca

Model Product: 274-275 - 20250218

Cores number	Cross section	Approx conductor diameter	Insulation medium thickness	External diameter		Approx cable weight	Electric resistance at 20°C	Mobile service Current carrying capacities	Current carrying air free
				Minimum	maximum				
(N°)	(mm²)	(mm)	(mm)	(mm)	(mm)	(kg/km)	(Ohm/km)	(A)	(A)
3G	16	5.7	1.2	21.8	27.6	913	1.21	67	107
3G	25	6.9	1.4	26.1	33.0	1324	0.780	89	135
3G	35	8.1	1.4	29.3	37.1	1754	0.554	110	169
3G	50	9.8	1.6	34.1	42.9	2409	0.386	138	207
3G	70	11.6	1.6	38.4	48.3	3211	0.272	172	268
3G	95	13.3	1.8	43.3	54	4210	0.206	204	328
3G	120	15.1	1.8	47.4	60	5205	0.161	238	383
3G	150	16.8	2.0	52	66	6389	0.129	273	444
3G	185	18.6	2.2	57	72	7591	0.106	309	510
3G	240	21.4	2.4	65	82	9944	0.0801	365	607
3G	300	23.9	2.6	72	90	11545	0.0641	415	703
Four cores									
4G	1	1.3	0.8	9.2	11.9	136	19.5	10	18
4G	1.5	1.6	0.8	10.2	13.1	166	13.3	16	24
4G	2.5	2.0	0.9	12.1	15.5	241	7.98	20	33
4G	4	2.6	1.0	14.0	17.9	336	4.95	30	45
4G	6	3.4	1.0	15.7	20.0	449	3.30	37	58
4G	10	4.4	1.2	20.9	26.5	833	1.91	52	80
4G	16	5.7	1.2	23.8	30.1	1138	1.21	69	107
4G	25	6.9	1.4	28.9	36.6	1714	0.78	92	135
4G	35	8.1	1.4	32.5	41.1	2204	0.554	114	169
4G	50	9.8	1.6	37.7	47.5	3029	0.386	143	207
4G	70	11.6	1.6	42.7	54	4121	0.272	178	268
4G	95	13.3	1.8	48.4	61	5361	0.206	210	328
4G	120	15.1	1.8	53	66	6546	0.161	246	383
4G	150	16.8	2.0	58	73	8095	0.129	282	444
4G	185	18.6	2.2	64	80	9652	0.106	319	510
4G	240	21.4	2.4	72	91	12614	0.0801	377	607
4G	300	23.9	2.6	80	101	17045	0.0641	430	703
Five cores									
5G	1	1.3	0.8	10.2	13.1	168	19.5	10	18
5G	1.5	1.6	0.8	11.2	14.4	206	13.3	16	24
5G	2.5	2.0	0.9	13.3	17	297	7.98	20	33
5G	4	2.6	1.0	15.6	19.9	422	4.95	30	45
5G	6	3.4	1.0	17.5	22.2	567	3.30	38	58
5G	10	4.4	1.2	22.9	29.1	1010	1.91	54	80

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H07BN4-F

CPR Eca

Model Product: 274-275 - 20250218

Cores number	Cross section	Approx conductor diameter	Insulation medium thickness	External diameter		Approx cable weight	Electric resistance at 20°C	Mobile service Current carrying capacities	Current carrying air free
				Minimum	maximum				
(N°)	(mm²)	(mm)	(mm)	(mm)	(mm)	(kg/km)	(Ohm/km)	(A)	(A)
5G	16	5.7	1.2	26.4	33.3	1400	1.21	71	107
5G	25	6.9	1.4	32	40.4	2096	0.780	94	135
5G	35	8.1	1.6	35.7	47.1	2700	0.554	114	169
5G	50	9.8	1.8	41.8	53.0	3750	0.386	143	207
5G	70	11.6	1.8	47.5	60.0	5040	0.272	178	268
Multicores									
7G	1.5	1.6	0.8	13.4	17.2	315	13.3	16	24
7G	2.5	2.0	0.9	15.7	20	445	7.98	20	33
7G	4*	2.6	1.0	18.2	23.2	618	4.95	25	45
10G	1.5	1.6	0.8	15.95	20.2	420	13.3	16	24
12G	1.5	1.6	0.8	17.6	22.4	493	13.3	16	24
12G	2.5	2.0	0.9	20.6	26.2	702	7.98	20	33
12G	4*	2.6	1.0	24.4	30.9	1004	4.95	25	45
19G	1.5	1.6	0.8	20.7	26.3	710	13.4	16	24
19G	2.5	2.0	0.9	24.4	30.9	1030	7.98	20	33
24G	1.5	1.6	0.8	24.3	30.7	898	13.3	16	24
24G	2.5	2.0	0.9	28.8	36.4	1312	7.98	20	33
36G	1.5*	1.6	0.8	27.8	35.2	1246	13.3	16	24
36G	2.5*	2.0	0.9	33.2	41.8	1851	7.98	20	33

Current carrying capacities for unipolar cables are calculated on 3 spanned cables. Cables marked by (*) require a minimum quantity.
Special bending radius
At the entrance to a portable device or a mobile device
mechanical stress with D <8 = 6D D <12 = 6D D <20 = 6D D> 20 = 8D
Festoons eg. gantry crane for D <8 = 6D D <12 = 6D D <20 = 6D D> 20 = 8D
Winding repeated D <8 = 6D D <12 = 6D D <20 = 6D D> 20 = 8D
Diverted to pulley D <8 = 8D D <12 = 8D D <20 = 8D D> 20 = 8D

H05RN-F (UNIPOLARE)

Model Product: 259 - 20160412

Class 5 flexible copper conductor.
Elastomeric mixture Insulation in EI4 quality.
Polychloroprene sheath, EM2.

STANDARDS

CEI 20-19/8 (CENELEC HD 22.8 S2) BS 6500:2000 NF C 32-102-8 VDE 0282-8
CEI EN60332-1-2(CEI 20-35) BS EN 60332-1-2 NF EN 60332-1-2 DIN EN 60332-1-2

Accordingly to the standards BT 2014/35/UE- 2011/65/EU (RoHS 3)

COMMON FEATURES

For general purposes in domestic areas, kitchens, offices and to feed portable devices submitted to weak mechanical stresses, exhaust fans, kitchen apparatuses, irons for welding, toaster.

EMPLOYMENT

Minimum bending radius per D cable diameter (in mm):
Free move 4D
Fixed lay 3D

Maximum pulling stress: Free move 15 N/mm²
Fixed lay 50 N/mm²

PACKING

100mt. rings in thermoplastic film or drums to agree.

CABLE WITH MEDIUM POLICHLOROPRENE SHEATH FOR DECORATIVE CHAINS

Nominal voltage U0: 300 V

Nominal voltage U: 500 V

Test voltage: 2000 V

Maximun operating temperature: +60°C

Maximun short circuit temperature: +200°C

Minimum installation and laying temperature: -25°C

Min. operating temperature (without mechanical shocks): -40°C

CORE COLOURS

Single core: Brown

SHEATH COLOUR

Black

MARKING ENGRAVING

GENERAL CAVI - IEMMEQU <HAR> - H05RN-F - year

NOTE

A system exercice voltage can always overflow the 10% of its standard voltage.

Conductor Number	Cross section	Maximum conductor diameter	Iinsulation thickness	External diameter		Electric resistance at 20°C	Approx cable weight	Current carrying capacities in air 30°C
				Minimum	maximum			
(N°)	(mm²)	(mm)	(mm)	(mm)	(mm)	(Ohm/km)	(kg/km)	(A)
Single core								
1x	0.75	0.95	0.8	4.1	5.2	26.0	30	6

MINIMUM ORDER QUANTITY

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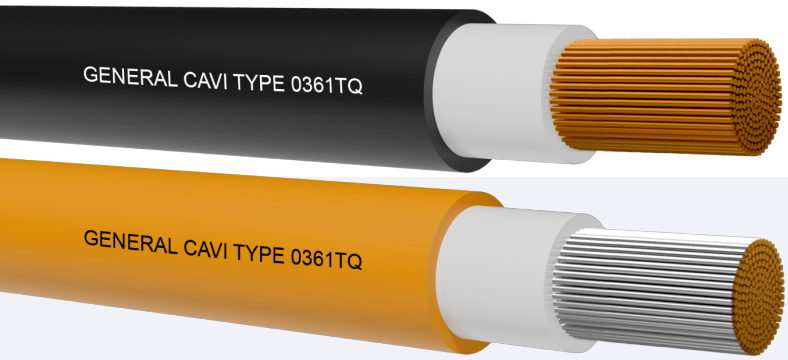
FOR INTERNATIONAL MARKET

AMBE 0
GZ KR 868
KÖGEL

TYPE 0361TQ

[GB] (ARC WELDING CABLES)

Model Product: 455-456 - 20160309



CE

Flexible conductor bare or tinned copper, class 5.
Special EI7 compounds insulation.
Elastomeric mixture jacket in type EM5 quality.

STANDARDS

BS 638 Part4 BS EN 60332-1-2 BS 7655 HD 22.6 BS EN 60332-1

Accordingly to the standards BT 2014/35/UE- 2011/65/EU (RoHS 2)

COMMON FEATURES

For portable electrode-carriers use. It's primary to follow the table's data of the user guide EN 50565 in merit to the service cycles, the intensities of current and the voltage fall. In order to reduce the effects of the alternating current on the voltage fall, the cables forming the welding circuit must be maintained as close as possible.

EMPLOYMENT

Minimum bending radius per D cable diameter (in mm):
6D
During installation, when the cable is pulled, it has not to revolve about its axis

Maximum pulling stress: 50 Nmm²

PACKING

100mt. rings in thermoplastic film or drums to agree.

CABLES FOR ARC WELDING WITH NORMAL FLEXIBILITY

Nominal voltage U0: 100 V
Nominal voltage U: 100 V
Test voltage: 1000 V
Maximun operating temperature: +85°C
Maximun short circuit temperature: +250°C
Minimum installation and laying temperature: -20°C
Min. operating temperature (without mechanical shocks): -35°C

CORE COLOURS

Single core: Neutral

SHEATH COLOUR

Black,Orange

INK MARKING

GENERAL CAVI - IEMMEQU TYPE 0361TQ 100/100 V 1xsection

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Catalogo prodotti da costruzione CPR UE305/2011

TYPE 0361TQ

[GB] (ARC WELDING CABLES)

Model Product: 455-456 - 20160309

Cores number	Cross section	Approx conductor diameter	Insulation medium thickness	External diameter		Approx cable weight	Electric resistance at 20°C red copper	Current carrying capacities 85°C	
				Minimum	maximum			Continuous Load	Intermittent load
(N°)	(mm²)	(mm)	(mm)	(mm)	(mm)	(kg/km)	(Ohm/km)	(A)	(A)
Single core									
1x	10	0.41	2.0	7.7	9.7	153	1.91	100	140
1x	16	0.41	2.0	8.8	11.0	220	1.21	110	160
1x	25	0.41	2.0	10.1	12.7	310	0.780	140	200
1x	35	0.41	2.0	11.4	14.2	420	0.554	180	250
1x	50	0.41	2.2	13.2	16.5	580	0.386	210	320
1x	70	0.51	2.4	15.3	19.2	799	0.272	270	400
1x	95	0.51	2.6	17.1	21.4	1050	0.206	330	500
1x	120	0.51	2.8	19.2	24.0	1330	0.161	380	600
1x	150	0.51	3.0	21.1	26.4	1610	0.129	440	700
1x	185	0.51	3.2	23.1	28.9	1904	0.106	480	800
1x	240	0.51	3.4	24.5	30.1	2290	0.0801	520	900

MINIMUM ORDER QUANTITY

GECA SOLAR A2XY 1.8/3 kV

SUNCONNECT CPR Eca

Model Product: - 20250404

Cables for connections between Inverter and Transformer in Photovoltaic Systems

Aluminium rigid compact conductor, class 2.
XLPE Crosslinked polyethylene insulation
Special Outer sheath PVC.

STANDARDS

EN 60228 IEC 60502-1pqa HD 603, EN IEC 60332-1-2
EN 50575:2014 + EN 50575/A1:2016

According to the standards 2011/65/EU (RoHS 3)

- Nominal voltage U0: 1800V AC 2700 VCC
- Nominal voltage U: 3000V AC 4500V CC
- Test voltage: 6500V
- Maximun voltage Um: 3600V AC 5400V CC
- Maximun operating temperature: 90 °C
- Maximun short circuit temperature: 250 °C
- Minimum installation and laying temperature: -5°C max +50°C
- Min. operating temperature (without mechanical shocks): -20°C

COMMON FEATURES

Power cables for fixed external or internal electrical installations laid in the ground, in the open air, in concrete or in cable ducts, where no mechanical protection is required during installation and operation and where the external PVC sheath is not attacked by corrosive agents. Suitable for AC and DC networks, Photovoltaic fields between Inverter and Transformer, industrial installations, switching equipment, local ducts or wind turbines.

EMPLOYMENT

Minimum bending radius per D cable diameter (in mm): 15 D

Maximum pulling stress: 60 N/mm²

PACKING

Drums to agree.

CORE COLOURS

Single core: BLACK

SHEATH COLOUR

BLACK

INK MARKING

GECA SOLAR A2XY 1.8/3 kV [form.] [year] [traceability data] [metric]

NOTE

Special features:UV resistant ,Silicon free ,Lead free

Nominal section	Electric resistance at 20°C	Insulation Thickness	Indicative external diameter	Approximate weight of the cable	Minimum Curvature Radius	Electrical Resistance Conductor at 20°C	DC current carrying capacity single cable in air	Current carrying capacity in DC single buried cable
(N° x mmq)	(mm)	(mm)	(mm)	(kg/km)	(mm)	(ohm/km)	(A)	(A)
Single core								
1x185	16.1	2.0	25.0	800	375	0.164	447	290
1x240	18.5	2.0	28.0	1010	420	0.125	530	326
1x300	20.7	2.1	31.5	1300	473	0.100	613	351
1x400	23.5	2.2	34.5	1500	518	0.0778	740	396

*) The flow rates refer to the following conditions: Thermal resistivity of the ground: 1 K m/W; Room temperature 20°C; installation depth: 0.8 m

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GECA SOLAR A2XY 1/1 kV

SUNCONNECT CPR Eca

Model Product: - 20250404

Cables for connections between Inverter and Transformer in Photovoltaic Systems

Aluminium rigid compact conductor, class 2.
XLPE Crosslinked polyethylene insulation
Special Outer sheath PVC.

STANDARDS

EN 60228 IEC 60502-1pqa HD 603, EN IEC 60332-1-2
EN 50575:2014 + EN 50575/A1:2016

According to the standards BT 2014/35/UE- 2011/65/EU (RoHS 3)

- Nominal voltage U0: 1000VAC 1500VCC
- Nominal voltage U: 1000V AC 1500V CC
- Test voltage: 4000 V
- Maximun voltage Um: 1200V AC 1800V CC
- Maximun operating temperature: 90 °C
- Maximun short circuit temperature: 250 °C
- Minimum installation and laying temperature: -5°C max +50°C
- Min. operating temperature (without mechanical shocks): -20°C

COMMON FEATURES

Power cables for fixed external or internal electrical installations laid in the ground, in the open air, in concrete or in cable ducts, where no mechanical protection is required during installation and operation and where the external PVC sheath is not attacked by corrosive agents. Suitable for AC and DC networks, Photovoltaic fields between Inverter and Transformer, industrial installations, switching equipment, local ducts or wind turbines.

EMPLOYMENT

Minimum bending radius per D cable diameter (in mm): 15 D

Maximum pulling stress: 60 N/mm²

PACKING

Drums to agree.

CORE COLOURS

Single core: BLACK

SHEATH COLOUR

BLACK

INK MARKING

GECA SOLAR A2XY 1/1 kV [form.] [year] [traceability data] [metric]

NOTE

Special features:UV resistant ,Silicon free ,Lead free

A2XY 1/1 kV

Conductor Number x section	Approx conductor diameter	Insulating thickness	Indicative external diameter	Approx cable weight	Minimum radius bending	Conductor Resistance at 20°C	Current carrying capacity in DC single cable in air	CURRENT CARRYING CAPACITY IN DC IN GRAUND
(N°xmmq)	(mm)	(mm)	(mm)	(kg/km)	(mm)	(ohm/km)	(A)	(A)
Single core								
1x50	8.2	1.0	14.0	250	210	0.641	161	117
1x70	9.8	1.1	16.0	340	240	0.443	209	144
1x95	11.5	1.1	18.0	440	270	0.320	256	170
1x120	13.1	1.2	19.8	505	297	0.253	299	196
1x150	14.3	1.4	21.8	625	327	0.206	346	224
1x185	16.1	1.6	24.0	753	360	0.164	398	252
1x240	18.5	1.7	26.9	977	404	0.125	473	296
1x300	20.7	1.8	30.0	1200	450	0.100	548	335
1x400	23.5	2.0	33.5	1488	503	0.0778	642	390

*) The flow rates refer to the following conditions: Thermal resistivity of the ground: 1 K m/W; Room temperature 20°C; installation depth: 0.8 m

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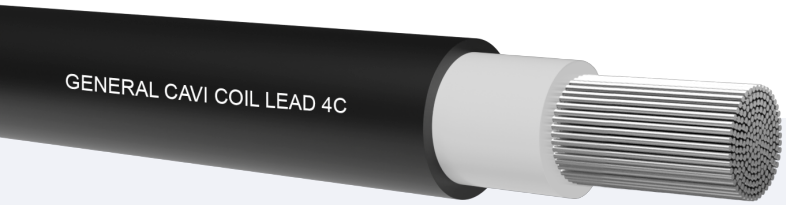
COIL LEAD 4C

[GB]CPR Fca

Model Product: 457 - 20201123



Flexible conductor TINNED copper, class 5.
Double layer of insulation quality FR1 interior White outside Black

STANDARDS

BS EN 60228 BS 7655 BS 6195/69

Accordingly to the standards BT 2014/35/UE- 2011/65/EU (RoHS 3)

COMMON FEATURES

Coil leads are designed for direct and permanent connection to coil winding of motors and other electrical apparatus.When used in coil lead applications, cable may also be required to withstand high temperatures or immersion in varnish or compound. May also be used for other applications such as flexible power leads.

EMPLOYMENT

Minimum bending radius per D cable diameter (in mm): 4D

Maximum pulling stress: 50 N/mmq

PACKING

Long lengths on cable drums or coils in thermo foil.

FLEXIBLE CABLES WITH TINNED CONDUCTOR

Nominal voltage U0: 600 V

Nominal voltage U: 1000 V

Test voltage: 4000 V

Maximun operating temperature: +90°C

Maximun short circuit temperature: +250°C

Minimum installation and laying temperature: -20°C

Min. operating temperature (without mechanical shocks): -35 °C

CORE COLOURS

Single core: Interior White outside Black

INK MARKING

Identification marking.

NOTE

Special features:RI (Hydrocarbon Resistant) CEI 20-34 / 0-1 and PQA to OIL & GAS specifications.

COIL LEAD 4C

[GB]CPR Fca

Model Product: 457 - 20201123

TECHNICAL SPECIFICATIONS FOR COIL LEADS

Nominal Section	Approx conductor diameter	Iinsulation thickness	MAXIMUM external diameter	Approx cable weight	Elettric Resistace 20°C	Current carrying capacities 30°C
(mmq)	(mm)	(mm)	(mm)	(kg/km)	(Ohm/km)	(A)
Single core						
1x2.5	2.0	1.4	5.6	49	8.21	36
1x4	2.6	1.4	6.3	66	5.09	49
1x6	3.4	1.5	7.5	87	3.39	64
1x10	4.4	1.5	8.5	130	1.95	90
1x16	5.7	1.5	9.6	185	1.24	120
1x25	6.9	1.6	11.4	275	0.795	163
1x35	8.1	1.6	12.8	365	0.565	203
1x50	9.8	1.7	14.8	510	0.393	267
1x70	11.6	1.8	17.2	710	0.277	324
1x95	13.3	2.0	19.7	925	0.210	391
1x120	15.1	2.2	21.9	1165	0.164	455
1x150	16.8	2.3	24.1	1435	0.132	525
1x185	18.6	2.4	26.3	1725	0.108	600
1x240	21.4	2.4	28.3	2220	0.0817	725
1x300	23.9	2.6	33.0	2755	0.0654	840
1x400	27.5	2.8	37.4	3710	0.0495	1010

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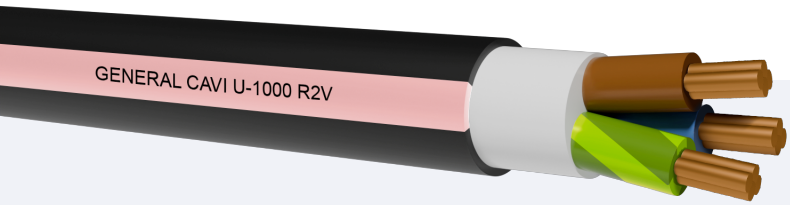
U-1000 R2V 0,6/1kV

[F]CPR Eca

Model Product: 270-271 - 20220224

1.5 2.5 4 6 10 16 LIGNE DE COLUEUR



Rigid wire red copper conductor class 1 (section ≤ 4 mm2)
Stranded circular compacted copper conductors class 2 (secetion >4mm2)
XLPE Crosslinked polyethylene insulation(no dry cool).
Special Outer sheath PVC.

STANDARDS

NF XP C32-321 IEC60502-1 NF C 15-100
EN 50575:2014 + EN 50575/A1:2016

Accordingly to the standards BT 2014/35/UE-2011/65/EU (RoHS 3)

POWER CABLES INSULATED IN CROSSLINKED POLYETHYLENE
UNDER PVC SHEATH WITH RIGID RED COPPER CONDUCTOR

Nominal voltage U0: 600V(AC) 1800V(DC)
Nominal voltage U: 1000V(AC) 1800V(DC)
Test voltage: 4000 V
Maximun voltage Um: 1200V(AC) 1800V(DC)
Maximun operating temperature: +90°C
Maximun short circuit temperature: +250°C
Minimum installation and laying temperature: -10°C
Min. operating temperature (without mechanical shocks): -25°C

COMMON FEATURES

For use on industrial sites and the upright columns of buildings. Particularly suited in cases of high operating temperatures and when high resistance to solar radiation and atmospheric agents is required. Good resistance to low temperatures, chemical agents and UV .It can be used without additional mechanical protection in the open air, fixed to walls or in raceways, inside walkways, and in empty in constructions in general. It can be laid undrground with mechanical protection constucted from slabs, tiles, or bricks. It is not racommend to lay thiscable in ground flooded for more than two months per year. With appropriate mechanical protection it can be use in areas subject to risk of explosion, but in this case the permitted current load is reduced by 15%.CONFORMING CPR. AD7 NF C15-100.

EMPLOYMENT

Minimum bending radius per D cable diameter (in mm): 6D

Maximum pulling stress: 5kg/mm² (of copper cross section)

CORE COLOURS

Single core: Black

Two cores: blue-brown

Three cores: brown-black-blue (1,5/2,5mmq); brown-black-gray (4mmq) or Y/G-blue-brown)

Four cores: blue-brown-black-gray (or Y/G instead blue)

Five cores: blue-brown-black-gray-Y/G (or black instead Y/G)

SHEATH COLOUR

Singlecore cables and multicore cables (over 5 cores) with black sheath. From 2 up to 5 cores, black sheath with colored strip.

INK MARKING

METER YEAR GENERAL CAVI Eca NF-USE 1325 NF XP C 32-321 U-1000 R2V FORM. x SEZ. / BATCH

U-1000 R2V 0,6/1kV

[F]CPR Eca

Model Product: 270-271 - 20220224

Cores number	Cross section	Approx conductor diameter	Insulation medium thickness	Minimum sheath thickness	Maximum external diameter	Electric resistance at 20°C	Approx cable weight	Current carrying air free	Current carrying burried
(N°)	(mm²)	(mm)	(mm)	(mm)	(mm)	(Ohm/km)	(kg/km)	(A)	(A)
Single core									
1x	1.5	1.4	0.7	1.09	6.6	12.1	45	24	31
1x	2.5	1.8	0.7	1.09	7.0	7.41	55	33	41
1x	4	2.25	0.7	1.09	7.6	4.61	75	45	59
1x	6	3.05	0.7	1.09	8.2	3.08	100	58	74
1x	10	3.8	0.7	1.09	9.2	1.83	140	80	101
1x	16	4.7	0.7	1.09	10.5	1.15	205	107	128
1x	25	5.9	0.9	1.09	12.5	0.727	315	138	144
1x	35	7.1	0.9	1.09	13.5	0.524	400	169	174
1x	50	8.0	1	1.09	15.0	0.387	530	207	206
1x	70	9.6	1.1	1.09	17.0	0.268	725	268	254
1x	95	11.4	1.1	1.18	19.0	0.193	985	328	301
1x	120	13.1	1.2	1.18	21.0	0.153	1260	382	343
1x	150	14.6	1.4	1.26	23.0	0.124	1520	441	387
1x	185	16.5	1.6	1.26	25.5	0.0991	1940	506	434
1x	240	18.4	1.7	1.35	28.5	0.0754	2310	599	501
1x	300	21.1	1.8	1.43	31.0	0.0601	3200	693	565
1x	400	23.5	2.0	1.52	34.2	0.0470	3931	-	639
1x	500	26.5	2.2	1.60	38.0	0.0366	5020	-	713
1x	630	30.1	2.4	1.69	44.0	0.0286	5324	-	785
Two cores									
2x	1.5	1.4	0.7	1.43	10.5	12.1	115	26	37
2x	2.5	1.8	0.7	1.43	11.5	7.41	145	36	48
2x	4	2.25	0.7	1.43	13.0	4.61	195	49	63
2x	6	3.05	0.7	1.43	14.0	3.08	265	63	80
2x	10	3.8	0.7	1.43	16.0	1.83	390	86	104
2x	16	4.7	0.7	1.43	18.5	1.15	560	115	136
2x	25	5.9	0.9	1.43	22.0	0.727	850	149	173
2x	35	7.1	0.9	1.43	24.5	0.524	1080	185	208
Three cores									
3x	1.5	1.4	0.7	1.43	11.0	12.1	130	23	31
3x	2.5	1.8	0.7	1.43	12.5	7.41	170	31	41
3x	4	2.25	0.7	1.43	13.5	4.61	230	42	53
3x	6	3.05	0.7	1.43	15.0	3.08	325	54	66
3x	10	3.8	0.7	1.43	17.0	1.83	485	75	87
3x	16	4.7	0.7	1.43	19.5	1.15	705	100	113

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Catalogo prodotti da costruzione CPR UE305/2011

U-1000 R2V 0,6/1kV

[F]CPR Eca

Model Product: 270-271 - 20220224

Cores number	Cross section	Approx conductor diameter	Insulation medium thickness	Minimum sheath thickness	Maximum external diameter	Electric resistance at 20°C	Approx cable weight	Current carrying air free	Current carrying burried
(N°)	(mm²)	(mm)	(mm)	(mm)	(mm)	(Ohm/km)	(kg/km)	(A)	(A)
3x	25	5.9	0.9	1.43	23.5	0.727	1080	127	144
3x	35	7.1	0.9	1.43	26.0	0.524	1390	158	174
3x	50	8.0	1.0	1.43	29.0	0.387	1840	192	206
3x	70	9.6	1.1	1.52	34.0	0.268	2540	246	254
3x	95	11.4	1.1	1.60	38.5	0.193	3430	298	301
3x	120	13.1	1.2	1.69	42.5	0.153	4440	346	343
3x	150	14.6	1.4	1.86	47.5	0.124	5380	395	395
3x	185	16.5	1.6	1.94	53.0	0.0991	6920	450	434
3x	240	18.4	1.7	2.11	59.5	0.0754	8420	538	501
3x	300	21.1	1.8	2.28	66	0.0601	11300	621	565
Four cores									
4x	1.5	1.4	0.7	1.43	12.0	12.1	150	23	31
4x	2.5	1.8	0.7	1.43	13.0	7.41	205	31	41
4x	4	2.25	0.7	1.43	14.5	4.61	280	42	53
4x	6	3.05	0.7	1.43	16.0	3.08	390	54	66
4x	10	3.8	0.7	1.43	18.5	1.83	590	75	87
4x	16	4.7	0.7	1.43	21.0	1.15	870	100	113
4x	25	5.9	0.9	1.43	25.5	0.727	1365	127	144
4x	35	7.1	0.9	1.43	28.5	0.524	1760	158	174
4x	50	8.1	1.0	1.52	32.5	0.387	2466	192	206
4x	70	9.7	1.1	1.60	37.5	0.268	3442	246	254
4x	95	11.4	1.1	1.69	42.5	0.193	4690	298	301
4x	120	13.1	1.2	1.86	47.5	0.153	6119	346	343
4x	150	14.6	1.4	1.94	52.5	0.124	7405	395	387
4x	185	16.5	1.6	2.11	59.0	0.0991	8820	450	434
4x	240	18.5	1.7	2.28	66.5	0.0754	11865	538	501
4x	300	21.0	1.8	2.45	73.5	0.0601	14716	621	565
3x50 + 1x35		8.0	1.0	1.52	31.1	0.387	2160	192	206
3x70 + 1x50		9.6	1.1	1.60	36.2	0.268	3010	246	254
3x95 + 1x50		11.4	1.1	1.69	40.6	0.193	3960	298	301
3x120 + 1x70		13.1	1.2	1.86	45.4	0.153	5160	346	343
3x150 + 1x70		14.6	1.4	1.94	49.5	0.124	6150	395	387
3x185 + 1x70		16.5	1.6	2.11	54.4	0.0991	7780	450	434
3x240 + 1x95		18.4	1.7	2.28	61.5	0.0754	9550	538	501
Five cores									
5x	1.5	1.4	0.7	1.43	13.0	12.1	180	23	31

U-1000 R2V 0,6/1kV

[F]CPR Eca

Model Product: 270-271 - 20220224

Cores number	Cross section	Approx conductor diameter	Insulation medium thickness	Minimum sheath thickness	Maximum external diameter	Electric resistance at 20°C	Approx cable weight	Current carrying air free	Current carrying burried
(N°)	(mm²)	(mm)	(mm)	(mm)	(mm)	(Ohm/km)	(kg/km)	(A)	(A)
5x	2.5	1.8	0.7	1.43	14.5	7.41	240	31	41
5x	4	2.25	0.7	1.43	16.0	4.61	335	42	53
5x	6	3.05	0.7	1.43	17.5	3.08	475	54	66
5x	10	3.8	0.7	1.43	20.0	1.83	720	75	87
5x	16	4.7	0.7	1.43	23.0	1.15	1060	100	113
5x	25	5.9	0.9	1.43	28.0	0.727	1645	127	144
5x	35	7.1	0.9	1.43	31.0	0.524	2250	158	174
5x	50	8.1	1.0	1.43	34.5	0.387	2950	192	206
5x	70	9.7	1.1	1.43	41.5	0.268	4300	246	254
5x	95	11.4	1.1	1.43	46.5	0.193	5710	298	301
Multicores									
7x	1.5	1.4	0.7	1.43	13,.5	12.1	220	15	22
7x	2.5	1.8	0.7	1.43	15.0	7.41	310	20.5	28
10x	1.5	1.4	0.7	1.43	16.5	12.1	310	13	18.5
10x	2.5	1.8	0.7	1.43	19.0	7.41	440	18	24.5
12x	1.5	1.4	0.7	1.43	17.0	12.1	370	12.5	18
12x	2.5	1.8	0.7	1.43	19.5	7.41	525	17	24
14x	1.5	1.4	0.7	1.43	18.0	12.1	430	12	17
14x	2.5	1.8	0.7	1.43	20.5	7.41	610	16	22
19x	1.5	1.4	0.7	1.43	19.5	12.1	560	10.5	15
19x	2.5	1.8	0.7	1.43	22.5	7.41	745	14.5	19.5
24x	1.5	1.4	0.7	1.43	22.5	12.1	710	10	14
24x	2.5	1.8	0.7	1.43	25.5	7.41	1000	13	18
30x	1.5	1.4	0.7	1.43	24.0	12.1	806	9	12.5
30x	2.5	1.8	0.7	1.43	27.5	7.41	1135	12	16.5
37x	1.5	1.4	0.7	1.43	25.5	12.1	972	8	12
37x	2.5	1.8	0.7	1.43	29.5	7.41	1350	11	15.5

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U-1000 AR2V 0,6/1kV

[F]

Model Product: 470-471 - 20241018

POWER CABLES INSULATED IN CROSSLINKED POLYETHYLENE
UNDER PVC SHEATH WITH ALUMINIUM RIGID CONDUCTOR

Aluminium rigid compact conductor, class 2.
XLPE Crosslinked polyethylene insulation(no dry cool).
Special Outer sheath PVC.

STANDARDS

NF XP C32-321 IEC60502-1 NF EN 60332-1-2 Category C2
NF C 15-100

Accordingly to the standards BT 2014/35/UE- 2011/65/EU (RoHS 3)

Nominal voltage U0: 600V(AC) 1800V(DC)
Nominal voltage U: 1000V(AC) 1800V(DC)
Test voltage: 4000 V
Maximun voltage Um: 1200V(AC) 1800V(DC)
Maximun operating temperature: +90°C
Maximun short circuit temperature: +250°C
Minimum installation and laying temperature: -10°C
Min. operating temperature (without mechanical shocks): -25°C

COMMON FEATURES

For use on industrial sites and the upright columns of buildings. Particularly suited in cases of high operating temperatures and when high resistance to solar radiation and atmospheric agents is required. Good resistance to low temperatures , chemical agents and UV .It can be used without additional mechanical protection in the open air, fixed to walls or in raceways, inside walkways, and in empty in constructions in general. It can be laid undrground with mechanical protection constucted from slabs, tiles, or bricks. It is not racommend to lay thiscable in ground flooded for more than two months per year. With appropriate mechanical protection it can be use in areas subject to risk of explosion, but in this case the permitted current load is reduced by 15%

EMPLOYMENT

Minimum bending radius per D cable diameter (in mm): 8D

Maximum pulling stress: 50 N/mm² (of copper cross section)

CORE COLOURS

Single core: Black

Two cores: blue-brown

Three cores: brown-black-blue (1,5/2,5mmq); brown-black-gray (4mmq) or Y/G-blue-brown)

Four cores: blue-brown-black-gray (or Y/G instead blue)

Five cores: blue-brown-black-gray-Y/G (or black instead Y/G)

SHEATH COLOUR

black

INK MARKING

METER YEAR GENERAL CAVI NF-USE 1325 NF XP C 32-321 U-1000 AR2V FORM. x SEZ. BATCH

U-1000 AR2V 0,6/1kV

[F]

Model Product: 470-471 - 20241018

U 1000 AR2V

Cores number	Cross section	Approx conductor diameter	Insulation medium thickness	Minimum sheath thickness	Maximum external diameter	Electric resistance at 20°C	Approx cable weight	Current carrying air free	Current carrying burried
(N°)	(mm²)	(mm)	(mm)	(mm)	(mm)	(Ohm/km)	(kg/km)	(A)	(A)
Single core									
1x	10	4.1	0.7	1.09	9.2	3.08	88	62	67
1x	16	4.9	0.7	1.09	10.5	1.91	117	84	87
1x	25	6.1	0.9	1.09	12.5	1.20	151	101	111
1x	35	7.1	0.9	1.09	13.5	0.868	188	126	134
1x	50	8.2	1	1.09	15.0	0.641	233	154	160
1x	70	9.9	1.1	1.09	17.0	0.443	312	198	197
1x	95	11.4	1.1	1.18	19.0	0.320	412	241	234
1x	120	13.1	1.2	1.18	21.0	0.253	510	280	266
1x	150	14.4	1.4	1.26	23.0	0.206	625	324	300
1x	185	16.2	1.6	1.26	25.5	0.164	744	371	337
1x	240	18.4	1.7	1.35	28.5	0.125	955	439	388
1x	300	21.1	1.8	1.43	31.0	0.100	1189	508	440
1x	400	24.1	2.0	1.52	34.5	0.0778	1533	663	515
1x	500	27.0	2.2	1.60	38.5	0.0605	1821	770	583
1x	630	31.8	2.4	1.77	43.0	0.0469	2339	889	662
Two cores									
2x	10	3.8	0.7	1.43	16.0	3.08	203	67	80
2x	16	4.7	0.7	1.43	18.5	1.91	300	91	104
2x	25	5.9	0.9	1.43	22.0	1.20	440	108	133
2x	35	7.1	0.9	1.43	24.5	0.868	550	135	160
Three cores									
3x	10	3.5	0.7	1.43	17.0	3.08	266	58	67
3x	16	4.9	0.7	1.43	19.5	1.91	410	77	87
3x	25	6.1	0.9	1.43	23.5	1.20	602	97	111
3x	35	7.1	0.9	1.43	26.0	0.868	740	120	134
3x	50	8.2	1.0	1.43	29.0	0.641	940	146	160
3x	70	9.6	1.1	1.52	34.0	0.443	1322	187	197
3x	95	11.4	1.1	1.60	38.5	0.320	1681	227	234
3x	120	13.1	1.2	1.69	42.5	0.253	2144	263	266
3x	150	14.6	1.4	1.86	47.5	0.206	2622	304	300
3x	185	16.5	1.6	1.94	53.0	0.264	3249	347	337
3x	240	18.4	1.7	2.11	59.5	0.125	4154	409	388
3x	300	21.1	1.8	2.28	66	0.100	5070	471	440
Four cores									

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U-1000 AR2V 0,6/1kV

[F]

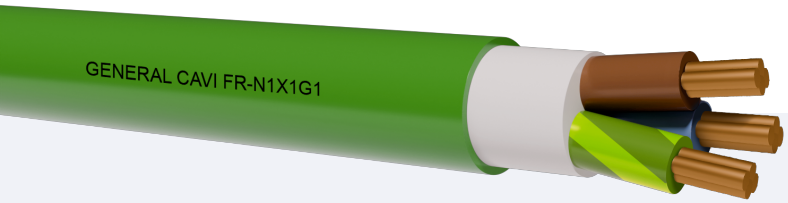
Model Product: 470-471 - 20241018

Cores number	Cross section	Approx conductor diameter	Insulation medium thickness	Minimum sheath thickness	Maximum external diameter	Electric resistance at 20°C	Approx cable weight	Current carrying air free	Current carrying burried
(N°)	(mm²)	(mm)	(mm)	(mm)	(mm)	(Ohm/km)	(kg/km)	(A)	(A)
4x	10	4.1	0.7	1.43	18.5	3.08	370	58	67
4x	16	4.9	0.7	1.43	21.0	1.91	485	77	87
4x	25	6.1	0.9	1.43	25.5	1.20	710	97	111
4x	35	7.1	0.9	1.43	28.5	0.868	890	120	134
4x	50	8.2	1.0	1.52	32.5	0.641	1115	146	160
4x	70	9.9	1.1	1.60	37.5	0.443	1576	187	197
4x	95	11.4	1.1	1.69	42.5	0.320	2039	227	234
4x	120	13.1	1.2	1.86	47.5	0.253	2402	263	266
4x	150	14.4	1.4	1.94	52.5	0.206	3010	304	300
4x	185	16.2	1.6	2.11	59.0	0.164	3932	347	337
4x	240	18.4	1.7	2.28	66.5	0.125	4901	409	388
4x	300	20.7	1.8	2.45	73.5	0.100	6124	471	440
3x50 + 1x35		8.2	1.0	1.52	31.1	0.641	1033	146	160
3x70 + 1x50		9.6	1.1	1.60	36.2	0.443	1455	187	197
3x95 + 1x50		11.4	1.1	1.69	40.6	0.320	1910	227	234
3x120 + 1x70		13.1	1.2	1.77	45.4	0.253	2321	263	266
3x150 + 1x70		14.6	1.4	1.86	49.5	0.206	2754	304	300
3x185 + 1x70		16.5	1.6	2.03	54.4	0.164	3261	347	337
3x240 + 1x95		18.4	1.7	2.20	61.5	0.125	4233	409	388
Five cores									
5x	10	3.5	0.7	1.43	20.0	3.08	366	58	67
5x	16	4.9	0.7	1.43	23.0	1.91	577	77	87
5x	25	6.1	0.9	1.43	28.0	1.20	850	97	111

FR-N1X1G1 0,6/1kV

[F]Cca-s1b,d1,a1

Model Product: 387-388 - 20250115



Rigid wire red copper conductor class 1 (section ≤ 4 mm2)
Stranded circular compacted copper conductors class 2 (secetion >4mm2)
XLPE Crosslinked polyethylene insulation(no dry cool).
halogen free
LSZH sheath.

STANDARDS

NF C32-323 C32-323/A1 NF C 32-070 C1 NF C32-070 C2 IEC 61034 EN 50575:2014 + EN 50575/A1:2016 NF C 15-100

Accordingly to the standards BT 2014/35/UE- 2011/65/EU (RoHS 3)

POWER CABLES INSULATED IN CROSSLINKED POLYETHYLENE
UNDER HALOGEN FREE SHEATH WITH RIGID RED COPPER CONDUCTOR

Nominal voltage U0: 600 V
Nominal voltage U: 1000 V
Test voltage: 4000 V
Maximun voltage Um: 1200 V
Maximun operating temperature: +90°C
Maximun short circuit temperature: +250°C
Minimum installation and laying temperature: -10°C
Min. operating temperature (without mechanical shocks): -25°C

COMMON FEATURES

Cables for indoor installation (in according with standard NF) and for use on industrial sites too. and the upright columns of buildings. They can be fixed to walls without protection if conditions permit; in other cases, the cables will be protected in their path in horizontal and vertical. If the cables during their operation are subject to solar radiation, it is best to protect them. They can be buried in short lengths unsaturated water terrain with the appropriate mechanical protections. Can be laid underground with mechanical protection constructed from slabs, tiles, or bricks. It is not recommend to lay this cable in ground flooded for more than two months per year. With appropriate mechanical protection it can be use in areas subject to risk of explosion, but in this case the permitted current load is reduced by 15%. It can be used in ambient temperatures down to -25°C.Supply of electricity and communications in buildings and other civil engineering works with the objective of limiting the generation and spread of fire and smoke.
Particular characteristics: AD6 NF C15-100 (AD7).-AN 2 sun light. UV resistant according to EN 50289-4-17 method A (720h)
AF 3 Corrosion

EMPLOYMENT

Minimum bending radius per D cable diameter (in mm): 6D

Maximum pulling stress: 5kg/mm² (of copper cross section)

CORE COLOURS

Two cores: blue-brown

Three cores: blue-brown-y/g
brown-black-blue (1,5/2,5mm²) (>=4mm²)brown-black-gray

Four cores: blue-brown-black-gray (or Y/G instead blue)

Five cores: Y/G-blue-brown-black-gray (or black instead Y/G)

Multicores: black with numbers + Y/G

SHEATH COLOUR

Green

MARKING ENGRAVING

METER YEAR GENERAL CAVI Cca-s1b,d1,a1 NF-USE 1325 NF C 32-323 FRN1X1G1 FORM. x SEZ. BATCH

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Catalogo prodotti da costruzione CPR UE305/2011

FR-N1X1G1 0,6/1kV

[F]Cca-s1b,d1,a1

Model Product: 387-388 - 20250115

Cores number	Cross section	Approx cond. diameter	Insulation medium thickness	Minimum sheath thickness	Maximum external diameter	Electric resistance at 20°C	Approx cable weight	Current carrying air free	Current carrying burried
(N°)	(mmq)	(mm)	(mm)	(mm)	(mm)	(Ohm/km)	(kg/km)	(A)	(A)
Single core									
1x	4	2.25	0.7	1.09	7.6	4.61	75	45	59
1x	6	3.05	0.7	1.09	8.2	3.08	100	58	74
1x	10	3.8	0.7	1.09	9.2	1.83	140	80	101
1x	16	4.7	0.7	1.09	10.5	1.15	205	107	128
1x	25	5.9	0.9	1.09	12.5	0.727	315	138	144
1x	35	7.1	0.9	1.09	13.5	0.524	400	169	174
1x	50	8.0	1.0	1.09	15.0	0.387	530	207	206
1x	70	9.6	1.1	1.09	17.0	0.268	725	268	254
1x	95	11.4	1.1	1.18	19.0	0.193	985	328	301
1x	120	13.1	1.2	1.18	19.0	0.153	1260	382	343
1x	150	14.6	1.4	1.26	23.0	0.124	1520	-	350
1x	185	16.5	1.6	1.26	25.5	0.0991	1940	-	360
1x	240	18.4	1.7	1.43	28.5	0.0754	2310	-	390
1x	300	21.1	1.8	1.52	31.0	0.0601	3200	-	420
1x	400	23.8	1.9	1.60	34-5	0.0470	4000	-	480
1x	500	26.8	2.0	1.77	38.5	0.0366	5000	-	550
1x	630	31.5	2.2	1.94	43.0	0.0283	6500	-	630
Two cores									
2x	1.5	1.4	0.7	1.43	10.5	12.1	115	26	37
2x	2.5	1.8	0.7	1.43	11.5	7.41	145	36	48
2x	4	2.25	0.7	1.43	13.0	4.61	195	49	63
2x	6	3.05	0.7	1.43	14.0	3.08	265	63	80
2x	10	3.8	0.7	1.43	16.0	1.83	390	86	104
2x	16	4.7	0.7	1.43	18.5	1.15	560	115	136
2x	25	5.9	0.9	1.43	22.0	0.727	850	149	173
2x	35	7.1	0.9	1.43	24.5	0.524	1080	185	208
Three cores									
3x	1.5	1.4	0.7	1.43	11.0	12.1	130	23	31
3x	2.5	1.8	0.7	1.43	12.5	7.41	170	31	41
3x	4	2.25	0.7	1.43	13.5	4.61	230	42	53
3x	6	3.05	0.7	1.43	15.0	3.08	325	54	66
3x	10	3.8	0.7	1.43	17.0	1.83	485	75	87
3x	16	4.7	0.7	1.43	19.5	1.15	705	100	113
3x	25	5.9	0.9	1.43	23.5	0.727	1080	127	144
3x	35	7.1	0.9	1.43	26.0	0.524	1390	158	174

FR-N1X1G1 0,6/1kV

[F]Cca-s1b,d1,a1

Model Product: 387-388 - 20250115

Cores number	Cross section	Approx cond. diameter	Insulation medium thickness	Minimum sheath thickness	Maximum external diameter	Electric resistance at 20°C	Approx cable weight	Current carrying air free	Current carrying burried
(N°)	(mmq)	(mm)	(mm)	(mm)	(mm)	(Ohm/km)	(kg/km)	(A)	(A)
3x	50	8.0	1.0	1.43	29.0	0.387	1840	192	206
3x	70	9.6	1.1	1.52	34.0	0.268	2540	246	254
3x	95	11.4	1.1	1.60	38.5	0.193	3430	298	301
3x	120	13.1	1.2	1.69	42.5	0.153	4440	346	343
3x	150	14.6	1.4	1.86	47.5	0.124	5380	-	350
3x	185	16.5	1.6	1.94	53.0	0.0991	6920	-	360
3x	240	18.4	1.7	2.11	59.5	0.0754	8420	-	390
3x	300	21.1	1.8	2.28	66.0	0.0601	11300	-	420
Four cores									
4x	1.5	1.4	0.7	1.43	12.0	12.1	160	23	31
4x	2.5	1.8	0.7	1.43	13.0	7.41	205	31	41
4x	4	2.25	0.7	1.43	14.5	4.61	280	42	53
4x	6	3.05	0.7	1.43	16.0	3.08	390	54	66
4x	10	3.8	0.7	1.43	18.5	1.83	590	75	87
4x	16	4.7	0.7	1.43	21.0	1.15	900	100	113
4x	25	5.9	0.9	1.43	25.5	0.727	1415	127	144
4x	35	7.1	0.9	1.43	28.5	0.524	1850	158	174
4x	50	8.0	1.0	1.52	32.5	0.387	2460	192	206
4x	70	9.6	1.1	1.60	37.5	0.268	3445	246	254
4x	95	11.4	1.1	1.69	42.5	0.193	4700	298	301
4x	120	13.1	1.2	1.69	47.5	0.153	6070	346	343
4x	150	14.6	1.4	1.94	52.5	0.124	7950	-	350
4x	185	16.5	1.6	2.11	59.0	0.0991	10050	-	360
4x	240	18.4	1.7	2.28	66.5	0.0754	12750	-	390
4x	300	21.1	1.8	2.45	73.5	0.0601	15800	-	420
3x50+1x35		8.0	1.0	1.52	31.1	0.387	2160	192	206
3x70+1x50		9.6	1.1	1.60	36.2	0.268	3010	246	254
3x95+1x50		11.4	1.1	1.69	40.6	0.193	3960	298	301
3x120+1x70		13.1	1.2	1.86	45.4	0.153	5160	346	343
3x150+1x70		14.6	1.4	1.86	49.5	0.124	6850	-	350
3x185+1x70		16.5	1.6	2.03	54.4	0.0991	8550	-	360
3x240+1x95		18.4	1.7	2.20	61.5	0.0754	10900	-	390
Five cores									
5x	1.5	1.4	0.7	1.43	13.0	12.1	180	23	31
5x	2.5	1.8	0.7	1.43	14.5	7.41	240	31	41
5x	4	2.25	0.7	1.43	16.0	4.61	335	42	53

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FR-N1X1G1 0,6/1kV

[F]Cca-s1b,d1,a1

Model Product: 387-388 - 20250115

Cores number	Cross section	Approx cond. diameter	Insulation medium thickness	Minimum sheath thickness	Maximum external diameter	Electric resistance at 20°C	Approx cable weight	Current carrying air free	Current carrying burried
(N°)	(mmq)	(mm)	(mm)	(mm)	(mm)	(Ohm/km)	(kg/km)	(A)	(A)
5x	6	3.05	0.7	1.43	17.5	3.08	475	54	66
5x	10	3.8	0.7	1.43	20.0	1.83	720	75	87
5x	16	4.7	0.7	1.43	23.0	1.15	1060	100	113
5x	25	5.9	0.9	1.43	28.0	0.727	1645	127	144
5x	35	7.1	0.9	1.43	31.0	0.524	2250	158	174
5x	50	8.1	1.0	1.43	34.5	0.387	2950	192	206
5x	70	9.7	1.1	1.43	41.5	0.268	4300	246	254
5x	95	11.4	1.1	1.43	46.5	0.193	5710	298	301
Multicores									
7x	1.5	1.4	0.7	1.43	13.5	12.1	220	18	-
7x	2.5	1.8	0.7	1.43	15.0	7.41	310	23	-
10x	1.5	1.4	0.7	1.43	16.5	12.1	310	16	-
10x	2.5	1.8	0.7	1.43	19.0	7.41	440	22	-
12x	1.5	1.4	0.7	1.43	17.0	12.1	370	14	-
12x	2.5	1.8	0.7	1.43	19.5	7.41	525	20	-
14x	1.5	1.4	0.7	1.43	18.0	12.1	430	14	-
14x	2.5	1.8	0.7	1.43	20.5	7.41	610	20	-
19x	1.5	1.4	0.7	1.43	19.5	12.1	560	13	-
19x	2.5	1.8	0.7	1.43	22.5	7.41	745	18	-
24x	1.5	1.4	0.7	1.43	22.5	12.1	710	12	-
24x	2.5	1.8	0.7	1.43	25.5	7.41	1000	16	-

XGB 0,6/1kV UV Resistant

[B]CPR Cca-s1, d2, a1

Model Product: 487-488 - 20230728

POWER CABLES INSULATED IN CROSSLINKED POLYETHYLENE
UNDER HALOGEN FREE SHEATH WITH RIGID RED COPPER CONDUCTOR UV RESISTANT

Rigid wire red copper conductor class 1 (section < 10 mm2)
Stranded circular compacted copper conductors class 2 (secetion >10mm2)
XLPE Crosslinked polyethylene insulation(no dry cool).
halogen free
LSZH sheath.

STANDARDS

NBN HD 604 5L NBN EN 61034-2
EN 50575:2014 + EN 50575/A1:2016 EN 50289-4-17

Accordingly to the standards BT 2014/35/UE- RoHS 3: 2002/95/EC

Nominal voltage U0: 600 V
Nominal voltage U: 1000 V
Test voltage: 4000 V
Maximun voltage Um: 1200 V
Maximun operating temperature: +90°C
Maximun short circuit temperature: +250°C
Minimum installation and laying temperature: 0°C
Min. operating temperature (without mechanical shocks): -15°C

COMMON FEATURES

Cables for indoor installation and for use on industrial sites too. and the upright columns of buildings. They can be fixed to walls without protection if conditions permit; in other cases, the cables will be protected in their path in horizontal and vertical.They can be buried in short lengths unsaturated water terrain with the appropriate mechanical protections. Can be laid underground with mechanical protection constructed from slabs, tiles, or bricks.Supply of electricity and communications in buildings and other civil engineering works with the objective of limiting the generation and spread of fire and smoke.
UV resistant according to EN 50289-4-17 method A (720h)

EMPLOYMENT

Minimum bending radius per D cable diameter (in mm): 6D

Maximum pulling stress: 50 N/mmq

CORE COLOURS

Multicores: HD 308

SHEATH COLOUR

Green

INK MARKING

METER YEAR GENERAL CAVI Cca-s1, d2, a1 XGB FORM. x SEZ. CEBEC 1503 BATCH

NOTE

* Not CEBEC marked

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XGB 0,6/1kV UV Resistant

[B]CPR Cca-s1, d2, a1

Model Product: 487-488 - 20230728

XGB

Cores number	Cross section	Approx cond. diameter	Insulation medium thickness	Minimum sheath thickness	Maximum external diameter	Electric resistance at 20°C	Approx cable weight	Current carrying air free	Current carrying burried
(N°)	(mmq)	(mm)	(mm)	(mm)	(mm)	(Ohm/km)	(kg/km)	(A)	(A)
Single core									
1x	4	2.25	0.7	1.4	7.5	4.60	85	37	37
1x	6	3.05	0.7	1.4	8.1	3.08	110	48	47
1x	10	3.8	0.7	1.4	9.0	1.83	160	66	63
1x	16	4.7	0.7	1.4	10.1	1.15	235	88	82
1x	25	5.9	0.9	1.4	11.8	0.727	340	117	108
1x	35	7.1	0.9	1.4	13.1	0.524	435	144	132
1x	50	8.0	1.0	1.4	14.8	0.387	560	175	166
1x	70	9.7	1.1	1.4	16.7	0.268	775	222	204
1x	95	11.4	1.1	1.5	18.8	0.193	1024	269	242
1x	120	13.1	1.2	1.5	20.6	0.153	1355	312	274
1x	150	14.6	1.4	1.6	23.0	0.124	1640	355	324
1x	185	16.5	1.6	1.6	25.2	0.0991	2050	417	364
1x	240	18.5	1.7	1.7	28.2	0.0754	2590	490	427
1x	300	21.0	1.8	1.8	31.0	0.0601	3190	-	484
1x	400	23.5	2.0	2.0	35.1	0.0470	3999	-	564
1x	500	26.5	2.2	2.2	39.0	0.0366	5100	-	638
1x	630	31.2	2.4	2.4	44.0	0.0286	6150	-	728
Two cores									
2x	1.5	1.4	0.7	1.43	10.5	12.1	115	26	37
2x	2.5	1.8	0.7	1.43	11.5	7.41	145	36	48
2x	4	2.25	0.7	1.43	13.0	4.61	195	49	63
2x	6	3.05	0.7	1.43	14.0	3.08	265	63	80
2x	10	3.8	0.7	1.43	16.0	1.83	390	86	104
2x	16	4.7	0.7	1.43	18.5	1.15	560	115	136
2x	25	5.9	0.9	1.43	22.0	0.727	850	149	173
2x	35	7.1	0.9	1.43	24.5	0.524	1080	185	208
Three cores									
3x	1.5	1.4	0.7	1.43	11.0	12.1	130	23	31
3x	2.5	1.8	0.7	1.43	12.5	7.41	170	31	41
3x	4	2.25	0.7	1.43	13.5	4.61	230	42	53
3x	6	3.05	0.7	1.43	15.0	3.08	325	54	66
3x	10	3.8	0.7	1.43	17.0	1.83	485	75	87
3x	16	4.7	0.7	1.43	19.5	1.15	705	100	113
3x	25	5.9	0.9	1.43	23.5	0.727	1080	127	144

XGB 0,6/1kV UV Resistant

[B]CPR Cca-s1, d2, a1

Model Product: 487-488 - 20230728

Cores number	Cross section	Approx cond. diameter	Insulation medium thickness	Minimum sheath thickness	Maximum external diameter	Electric resistance at 20°C	Approx cable weight	Current carrying air free	Current carrying burried
(N°)	(mmq)	(mm)	(mm)	(mm)	(mm)	(Ohm/km)	(kg/km)	(A)	(A)
3x	35	7.1	0.9	1.43	26.0	0.524	1390	158	174
3x	50	8.0	1.0	1.43	29.0	0.387	1840	192	206
3x	70*	9.6	1.1	1.52	34.0	0.268	2540	246	254
3x	95*	11.4	1.1	1.60	38.5	0.193	3430	298	301
3x	120*	13.1	1.2	1.69	42.5	0.153	4440	346	343
3x	150*	14.6	1.4	1.86	47.5	0.124	5380	-	350
3x	185*	16.5	1.6	1.94	53.0	0.0991	6920	-	360
3x	240*	18.4	1.7	2.11	59.5	0.0754	8420	-	390
3x	300*	21.21	1.8	2.28	66.0	0.06001	11300	-	420
Four cores									
4x	1.5	1.4	0.7	1.43	12.0	12.1	160	23	31
4x	2.5	1.8	0.7	1.43	13.0	7.41	205	31	41
4x	4	2.25	0.7	1.43	14.5	4.61	280	42	53
4x	6	3.05	0.7	1.43	16.0	3.08	390	54	66
4x	10	3.8	0.7	1.43	18.5	1.83	590	75	87
4x	16	4.7	0.7	1.43	21.0	1.15	900	100	113
4x	25	5.9	0.9	1.43	25.5	0.727	1415	127	144
4x	35	7.1	0.9	1.43	28.5	0.524	1850	158	174
4x	50	8.0	1.0	1.43	32.5	0.387	2460	192	188
4x	70*	9.6	1.1	1.52	37.5	0.268	3445	246	254
4x	95*	11.4	1.1	1.60	42.5	0.193	4700	298	301
4x	120*	13.1	1.2	1.69	47.5	0.153	6070	346	343
4x	150*	14.6	1.4	1.86	52.5	0.124	7950	-	350
4x	185*	16.5	1.6	1.94	59.0	0.0991	10050	-	360
4x	240*	18.4	1.7	2.11	66.5	0.0754	12750	-	390
4x	300*	21.1	1.8	2.28	73.5	0.0601	15800	-	420
4x	3x50+1x25*	8.0	1.0	1.52	31.5	0.387	2400	192	188
4x	3x70+1x35*	9.7	1.1	1.60	35.5	0.268	3200	195	190
4x	3x95+1x50*	11.4	1.1	1.80	40.3	0.193	4300	235	231
4x	3x120+1x70*	13.1	1.2	1.8	45.9	0.153	5500	268	265
4x	3x150+1x95*	14.6	1.4	1.8	51.3	0.124	6500	-	300
4x	3x185+1x95*	16.5	1.6	2.0	55.9	0.0991	7900	-	348
4x	3x240+1x150*	18.4	1.7	2.0	63.9	0.0754	10400	-	405
Five cores									
5x	1.5	1.4	0.7	1.43	13.0	12.1	180	23	31
5x	2.5	1.8	0.7	1.43	14.5	7.41	240	31	41

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XGB 0,6/1kV UV Resistant

[B]CPR Cca-s1, d2, a1

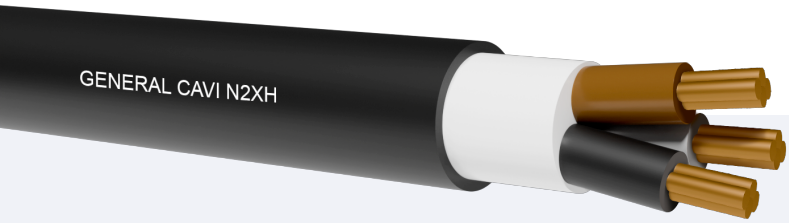
Model Product: 487-488 - 20230728

Cores number	Cross section	Approx cond. diameter	Insulation medium thickness	Minimum sheath thickness	Maximum external diameter	Electric resistance at 20°C	Approx cable weight	Current carrying air free	Current carrying burried
(N°)	(mmq)	(mm)	(mm)	(mm)	(mm)	(Ohm/km)	(kg/km)	(A)	(A)
5x	4	2.25	0.7	1.43	16.0	4.61	335	42	53
5x	6	3.05	0.7	1.43	17.5	3.08	475	54	66
5x	10	3.8	0.7	1.43	20.0	1.83	720	75	87
5x	16	4.7	0.7	1.43	23.0	1.15	1060	100	113
5x	25	5.9	0.9	1.43	28.0	0.727	1645	127	144
5x	35*	7.1	0.9	1.43	31.0	0.524	2250	158	174
5x	50*	8.1	1.0	1.43	34.5	0.387	2950	192	206
5x	70*	9.7	1.1	1.43	41.5	0.268	4300	246	254
5x	95*	11.4	1.1	1.43	46.5	0.193	5710	298	301
Multicores									
7x	1.5	1.4	0.7	1.40	13.9	12.1	230	23	31
9x	1.5	1.4	0.7	1.40	16.5	12.1	330	23	31
10x	1.5	1.4	0.7	1.40	17.2	12.1	340	23	31
12x	1.5	1.4	0.7	1.40	17.6	12.1	370	23	31
14x	1.5	1.4	0.7	1.50	18.7	12.1	425	23	31
19x	1.5	1.4	0.7	1.50	20.6	12.1	528	23	31
24x	1.5	1.4	0.7	1.60	24.1	12.1	689	23	31
30x	1.5	1.4	0.7	1.70	25.6	12.1	799	23	31
37x	1.5	1.4	0.7	1.70	27.6	12.1	1200	23	31
40x	1.5	1.4	0.7	1.70	28.9	12.1	1290	23	31
7x	2.5	1.8	0.7	1.40	15.4	7.41	320	31	41
9x	2.5	1.8	0.7	1.50	18.5	7.41	480	31	41
10x	2.5	1.8	0.7	1.50	19.4	7.41	500	31	41
12x	2.5	1.8	0.7	1.50	20.0	7.41	600	31	41
14x	2.5	1.8	0.7	1.50	21.0	7.41	650	31	41
19x	2.5	1.8	0.7	1.60	23.5	7.41	850	31	41
24x	2.5	1.8	0.7	1.70	27.1	7.41	950	31	41
30x	2.5	1.8	0.7	1.80	28.9	7.41	1200	31	41
37x	2.5	1.8	0.7	1.80	31.1	7.41	1500	31	41
40x	2.5	1.8	0.7	1.80	35.6	7.41	1600	31	41
7x	4	2.25	0.7	1.50	20.5	4.61	469	42	53
9x	4	2.25	0.7	1.50	23.5	4.61	603	42	53
10x	4	2.25	0.7	1.60	24.9	4.61	670	42	53
12x	4	2.25	0.7	1.70	27.0	4.61	804	42	53
14x	4	2.25	0.7	1.80	30.2	4.61	938	42	53
19x	4	2.25	0.7	1.80	33.0	4.61	1273	42	53

N2XH 0,6/1 kV

[D]CPR Cca- s1,d2,a1

Model Product: 378-379-483-484 - 20240223



XLPE INSULATED CABLES OF RATED VOLTAGES UP TO 0,6/1kV
WITH CROSSLINKED POLYMER AND L.S.0.H.

Rigid class 1 and class 2 red copper conductor.
XLPE Crosslinked polyethylene insulation, 2XI1
Not fibrous and not hygroscopic filler
LSZH thermoplastic sheath, HM4.

STANDARDS

VDE 0276 part 604 VDE 0482 part 267
HD 604 S1 HD627 S1
EN 50575:2014 + EN 50575/A1:2016

Accordingly to the standards BT 2014/35/UE- 2011/65/EU (RoHS 3)

Nominal voltage U0: 600 V
Nominal voltage U: 1000 V
Test voltage: 4000 V
Maximun voltage Um: 1200 V
Maximun operating temperature: +90°C
Maximun short circuit temperature: +250°c
Minimum installation and laying temperature: -5°C
Min. operating temperature (without mechanical shocks): -25°C

COMMON FEATURES

Halogen-free plastic sheathed cable with enhanced characteristics in case of fire, used for applications where harm to human life and damage to property must be prevented in the event of fire, e.g. industrial installations, communal establishment, hotels, airports,
underground stations, railway stations, hospitals, departmental stores, banks, schools, theatres, multi storey buildings, process control centres. Suitable for installation in dry, damp or wet environments, for installation above and below plaster as well as masonry walls and in concrete, nevertheless not suitable for direct use in compacted or tamped concrete. Also suitable for outdoor applications.In according with installtion standard IEC 60364 and as applicable to equivalent in Germany (DIN VDE 0100), Italy (CEI 20-60), Nederland (NEN1010), France (NF C15-100).Supply of electricity and communications in buildings and other civil engineering works with the objective of limiting the generation and spread of fire and smoke.

EMPLOYMENT

Minimum bending radius per D cable diameter (in mm):
Normal use= D<=8 (4D) D<=12(5D) D>20 (6D)
Accurate bending close to the terminal=D<=8 (2D) D<=12(3D) D>20 (4D)

Maximum pulling stress:

CORE COLOURS

Single core: black

Two cores: blue, brown

Three cores: Brown - Black - Gray (o Y/G, Blue and Brown)

Four cores: blue-brown-black-gray (or Y/G instead blue)

Five cores: Y/G-blue-brown-black-gray (black no Y/G)

Multicores: black with numbers and Y/G

SHEATH COLOUR

Black

INK MARKING

YEAR GENERAL CAVI VDE 0276 Cca- s1,d2,a1

NOTE

RE= class 1; RM= class 2

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Catalogo prodotti da costruzione CPR UE305/2011

N2XH 0,6/1 kV

[D]CPR Cca- s1,d2,a1

Model Product: 378-379-483-484 - 20240223

Cores number	Cross section	Approx conductor diameter	Insulation medium thickness	Minimum sheath thickness	Maximum external diameter	Electric resistance at 20°C	Approx cable weight	Current carrying air free	Current carrying burried
(N°)	(mm²)	(mm)	(mm)	(mm)	(mm)	(Ohm/km)	(kg/km)	(A)	(A)
Single core									
1x	4RE	2.25	0.7	1.09	7.6	4.61	90	45	59
1x	6RE	3.05	0.7	1.09	8.2	3.08	115	58	74
1x	10RE	3.8	0.7	1.09	9.2	1.83	165	80	101
1x	16RE	4.7	0.7	1.09	10.5	1.15	230	107	128
1x	25RM	5.9	0.9	1.09	12.5	0.727	340	138	144
1x	35RM	7.1	0.9	1.09	13.5	0.524	440	169	174
1x	50RM	8.0	1	1.09	15.0	0.387	570	207	206
1x	70RM	9.6	1.1	1.09	17.0	0.268	795	268	254
1x	95RM	11.4	1.1	1.18	19.0	0.193	1055	328	301
1x	120RM	13.1	1.2	1.18	21.0	1055	1315	382	343
1x	150RM	14.6	1.4	1.26	23.0	1315	1600	441	387
1x	185RM	16.5	1.6	1.26	25.5	1600	1975	506	434
1x	240RM	18.4	1.7	1.35	28.5	1975	2525	599	501
1x	300RM	21.1	1.8	1.43	31.0	0.0601	3150	693	565
1x	400RM	23.5	2.0	1.90	35.1	0.0470	3995	700	639
Two cores									
2x	1.5RE	1.4	0.7	1.43	10.5	12.1	125	26	37
2x	2.5RE	1.8	0.7	1.43	11.5	7.41	155	36	48
2x	4RE	2.25	0.7	1.43	13.0	4.61	195	49	63
2x	6RE	3.05	0.7	1.43	14.0	3.08	295	63	80
2x	10RE	3.8	0.7	1.43	16.0	1.83	390	86	104
2x	16RE	4.7	0.7	1.43	18.5	1.15	560	115	136
2x	25RM	5.9	0.9	1.43	22.0	0.727	850	149	173
2x	35RM*	7.1	0.9	1.43	24.5	0.524	1080	185	208
2x	50RM*	8.0	1	1.43	26.5	0.387	1290	220	256
Three cores									
3x	1.5RE	1.4	0.7	1.43	11.0	12.1	145	23	31
3x	2.5RE	1.8	0.7	1.43	12.5	7.41	180	31	41
3x	4RE	2.25	0.7	1.43	13.5	4.61	235	42	53
3x	6RE	3.05	0.7	1.43	15.0	3.08	325	54	66
3x	10RE	3.8	0.7	1.43	17.0	1.83	485	75	87
3x	16RE	4.7	0.7	1.43	19.5	1.15	705	100	113
3x	25RM	5.9	0.9	1.43	23.5	0.727	1080	127	144
3x	35RM	7.1	0.9	1.43	26.0	0.524	1425	158	174
3x	50RM	8.0	1.0	1.43	29.0	0.387	1840	192	206

N2XH 0,6/1 kV

[D]CPR Cca- s1,d2,a1

Model Product: 378-379-483-484 - 20240223

Cores number	Cross section	Approx conductor diameter	Insulation medium thickness	Minimum sheath thickness	Maximum external diameter	Electric resistance at 20°C	Approx cable weight	Current carrying air free	Current carrying burried
(N°)	(mm²)	(mm)	(mm)	(mm)	(mm)	(Ohm/km)	(kg/km)	(A)	(A)
3x	70RM	9.6	1.1	1.52	34.0	0.268	2540	246	254
3x	95RM	11.4	1.1	1.60	38.5	0.193	3430	298	301
3x	120RM	13.1	1.2	1.69	42.5	0.153	4440	346	343
3x	150RM	14.6	1.4	1.86	47.5	0.124	5380	395	387
3x	185RM	16.5	1.6	1.94	53.0	0.0991	6920	450	434
3x	240RM	18.4	1.7	2.11	59.5	0.0754	8420	538	501
Four cores									
3x50 + 1x25RM		8.0	1.0	1.52	31.1	0.387	2160	192	206
3x70 + 1x35RM		9.6	1.1	1.60	36.2	0.268	3010	246	254
3x95 + 1x50RM		11.4	1.1	1.69	40.6	0.193	3960	298	301
3x120 + 1x70RM		13.1	1.2	1.86	45.4	0.153	5160	346	343
3x150 + 1x70RM		14.6	1.4	1.94	49.5	0.124	6150	395	387
3x185 + 1x95RM		16.5	1.6	2.11	54.4	0.0991	7780	450	434
3x240 + 1x120RM		18.4	1.7	2.28	61.5	0.0754	9550	538	501
4x	1.5RE	1.4	0.7	1.43	12.0	12.1	170	23	31
4x	2.5RE	1.8	0.7	1.43	13.0	7.41	215	31	41
4x	4RE	2.25	0.7	1.43	14.5	4.61	290	42	53
4x	6RE	3.05	0.7	1.43	16.0	3.08	390	54	66
4x	10RE	3.8	0.7	1.43	18.5	1.83	600	75	87
4x	16RE	4.7	0.7	1.43	21.0	1.15	870	100	113
4x	25RM	5.9	0.9	1.43	25.5	0.727	1365	127	144
4x	35RM	7.1	0.9	1.43	28.5	0.524	1875	158	174
4x	50RM	8.0	1.0	1.52	31.1	0.387	2550	192	206
4x	70RM	9.6	1.1	1.60	36.2	0.268	3010	246	254
4x	95RM	11.4	1.1	1.69	40.6	0.193	3960	298	301
4x	120RM	13.1	1.2	1.86	45.4	0.153	5160	346	343
4x	150RM	14.6	1.4	1.94	49.5	0.124	6150	395	387
4x	185RM	16.5	1.6	2.11	54.4	0.0991	7780	450	434
4x	240RM	18.4	1.7	2.28	61.5	0.0754	9550	538	501
Five cores									
5x	1.5RE	1.4	0.7	1.43	13.0	12.1	195	23	31
5x	2.5RE	1.8	0.7	1.43	14.5	7.41	255	31	41
5x	4RE	2.25	0.7	1.43	16.0	4.61	345	42	53
5x	6RE	3.05	0.7	1.43	17.5	3.08	475	54	66
5x	10RE	3.8	0.7	1.43	20.0	1.83	735	75	87
5x	16RE	4.7	0.7	1.43	23.0	1.15	1070	100	113

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N2XH 0,6/1 kV

[D]CPR Cca- s1,d2,a1

Model Product: 378-379-483-484 - 20240223

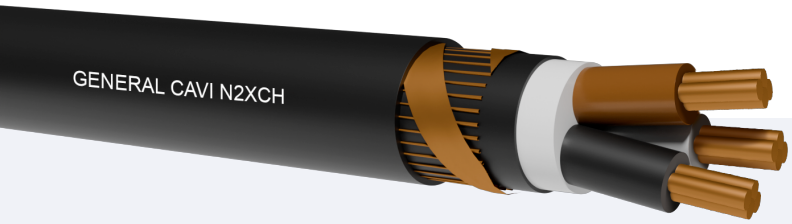
Cores number	Cross section	Approx conductor diameter	Insulation medium thickness	Minimum sheath thickness	Maximum external diameter	Electric resistance at 20°C	Approx cable weight	Current carrying air free	Current carrying burried
(N°)	(mm²)	(mm)	(mm)	(mm)	(mm)	(Ohm/km)	(kg/km)	(A)	(A)
5x	25RM	5.9	0.9	1.43	30.0	0.727	1800	127	144
5x	35RM	7.1	0.9	1.43	36.5	0.524	22375	158	174
5x	50RM	8.0	1.0	1.52	40.0	0.387	4000	192	206
5x	70RM	9.6	1.1	1.60	47.0	0.268	5400	246	254
5x	95RM	11.4	1.1	1.69	-	0.193	5800	298	301
5x	120RM	13.1	1.2	1.86	-	0.153	6000	346	343
5x	150RM	14.6	1.4	1.94	-	0.124	8000	395	395
5x	185RM	16.5	1.6	2.11	-	0.0991	9925	450	434
5x	240RM	18.4	1.7	2.28	-	0.0754	12625	538	501
Multicores									
7x	1.5RE	1.4	0.7	1.43	13.5	12.1	220	18	-
7x	2.5RE	1.8	0.7	1.43	15.0	7.41	310	23	-
7x	4RE	2.25	0.7	1.43	17.0	4.61	530	31	
10x	1.5RE	1.4	0.7	1.43	16.5	12.1	310	16	-
10x	2.5RE	1.8	0.7	1.43	19.0	7.41	440	22	-
12x	1.5RE	1.4	0.7	1.43	17.0	12.1	370	14	-
12x	2.5RE	1.8	0.7	1.43	19.5	7.41	525	20	-
12x	4RE	2.25	0.7	1.43	22.5	4.61	800	30	-
14x	1.5RE	1.4	0.7	1.43	18.0	12.1	430	14	-
14x	2.5RE	1.8	0.7	1.43	20.5	7.41	610	20	-
19x	1.5RE	1.4	0.7	1.43	19.5	12.1	560	13	-
19x	2.5RE	1.8	0.7	1.43	22.5	7.41	745	18	-
24x	1.5RE	1.4	0.7	1.43	22.5	12.1	710	12	-
24x	2.5RE	1.8	0.7	1.43	253.5	7.41	1000	16	-

RE= class 1; RM= class 2
The sections marked with (*) not subject to the VDE mark, but comply with EU Regulation 305/11 (CPR)

N2XCH 0,6/1kV

[D] L.S.0.H.

Model Product: 478-479-485-486 - 20160421



Rigid class 1 and class 2 red copper conductor.
XLPE Crosslinked polyethylene insulation, 2XI1
Not fibrous and not hygroscopic filler
Concentric copper wires shield
LSZH thermoplastic sheath, HM4.

STANDARDS

VDE.0276 HD.604.S1 VDE.0295 IEC.60228 HD.383 HD.0627 S1

Accordingly to the standards BT 2014/35/UE- 2011/65/EU (RoHS 3)

COMMON FEATURES

Halogen-free plastic sheathed cable with enhanced characteristics in case of
fire, used for applications where harm to human life and damage to property must be prevented in the event of fire, e.g. industrial installations, communal establishment, hotels, airports,

underground stations, railway stations, hospitals, departmental stores, banks,
schools, theatres, multi storey buildings, process control centres.

Suitable for installation in dry, damp or wet environments, for installation above and below plaster as well as masonry walls and in concrete, nevertheless not suitable for direct use in compacted or tamped concrete. Also suitable for outdoor applications

EMPLOYMENT

Minimum bending radius per D cable diameter (in mm): RE 15D
RM 12D

Maximum pulling stress:

A power cable, 0,6 / 1kV, halogen-free, with concentric conductor, without functionality

Nominal voltage U0: 600V
Nominal voltage U: 1000V
Test voltage: 4000V
Maximun voltage Um: 1200V
Maximun operating temperature: +90°C
Maximun short circuit temperature: +250°C
Minimum installation and laying temperature: -5°C
Min. operating temperature (without mechanical shocks): -20°C

CORE COLOURS

Single core: -O black; -J green/yellow

Two cores: blue, brown

Three cores: -O-brown, black, gray; -J green-yellow, blue, brown

Four cores: -O blue, brown, black, gray; -J green-yellow, brown, black, gray

Five cores: -O blue, brown, black, black, gray; -J green-yellow, blue, brown, black, gray

Multicores: -O numbered black; -J numbered blacks, green-yellow

SHEATH COLOUR

Black

NOTE

RE=rigid single wire conductor class 1
RM=rigid stranded multiwires conductor class 2

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N2XCH 0,6/1kV

[D] L.S.O.H.

Model Product: 478-479-485-486 - 20160421

N2XCH

Cores number	Cross section	Approx conductor diameter	MAXIMUM external diameter	Electrc Resistance	Approx cable weight	Current carrying air free	Current carrying burried
(N°)	(mmq)	(mm)	(mm)	(Ohm/km)	(kg/km)	(A)	(A)
Two cores							
2x	1.5/1.5RE	1.4	14.0	12.1	250	26	37
2x	2.5/2.5RE	1.8	15.0	7.41	280	36	48
2x	4/4RE	2.25	14.0	4.61	320	49	63
2x	6/6RE	3.05	15.0	3.08	400	63	80
2x	10/10RE	3.8	16.0	1.83	560	86	104
2x	16/16RE	4.7	19.1	1.15	780	115	136
Three cores							
3x	1.5/1.5RE	1.4	14.5	12.1	250	23	31
3x	2.5/2.5RE	1.8	15.5	7.41	320	31	41
3x	4/4RE	2.25	16.5	4.61	400	42	53
3x	6/6RE	3.05	18.0	3.08	500	54	66
3x	10/10RE	3.8	20.0	1.83	750	75	87
3x	16/16RE	4.7	22.5	1.15	1000	100	113
3x	25/16RM	5.9	27.0	0.727	1600	127	144
3x	35/16RM	7.1	27.5	0.524	1900	158	174
3x	50/25RM	8.0	32.5	0.387	2400	192	206
3x	70/35RM	9.6	35.6	0.268	3060	246	254
3x	95/59RM	11.4	39.0	0.193	4200	298	301
3x	120/70RM	13.1	42.0	0.153	5207	346	343
3x	150/70RM	14.6	43.5	0.124	5700	395	387
3x	185/95RM	16.5	47.4	0.0991	7150	450	434
3x	240/120RM	18.4	53.5	0.0754	9250	538	501
Four cores							
4x	1.5/1.5RE	1.4	15.5	12.1	300	23	31
4x	2.5/2.5RE	1.8	16.5	7.41	380	31	41
4x	4/4RE	2.25	17.5	4.61	480	42	53
4x	6/6RE	3.05	19.0	3.08	600	54	66
4x	10/10RE	3.8	21.5	1.83	850	75	87
4x	16/16RE	4.7	24.5	1.15	1200	100	113
4x	25/16RM	5.0	29.0	0.727	1800	127	144
4x	35/16RM	7.1	29.5	0.524	2100	158	174
4x	50/25RM	8.0	32.5	0.387	2800	192	206
4x	70/35RM	9.6	38.0	0.268	3800	246	254
4x	95/50RM	11.4	43.5	0.193	5100	298	301

N2XCH 0,6/1kV

[D] L.S.O.H.

Model Product: 478-479-485-486 - 20160421

Cores number	Cross section	Approx conductor diameter	MAXIMUM external diameter	Electrc Resistance	Approx cable weight	Current carrying air free	Current carrying burried
(N°)	(mmq)	(mm)	(mm)	(Ohm/km)	(kg/km)	(A)	(A)
4x	120/70RM	13.1	50.5	0.153	6556	346	343
4x	150/70RM	14.6	52.1	0.124	7600	395	387
4x	185/95RM	16.5	57.2	0.0991	9370	450	434
4x	240/120RM	18.4	62.6	0.0754	11611	538	501
Multicores							
7x	1.5/1.5RE	1.4	14.5	12.1	320	18	-
7x	2.5/2.5RE	1.8	15.1	7.41	400	23	-
7x	4/4RE	2.25	18.1	4.61	580	31	-
10x	1.5/1.5RE	1.4	17.2	12.1	420	16	-
10x	2.5/2.5RE	1.8	18.9	7.41	550	22	-
12x	1.5/2,5RE	1.4	18.4	12.1	460	14	-
12x	2.5/4RE	1.8	19.2	7.41	610	20	-
12x	4/6RE	2.25	22.6	4.61	910	22	-
16x	1.5/4RE	1.4	20.0	12.1	686	12	-
16x	2.5/6RE	1.8	20.9	7.41	805	18	-
21x	1.5/6RE	1.4	22.6	12.1	766	10	-
21x	2.5/6RE	1.8	25.2	7.41	1015	16	-
24x	1.5/6RE	1.4	23.2	12.1	800	8	-
24x	2.5/10RE	1.8	26.1	7.41	1100	14	-
30x	1.5/6RE	1.4	24.3	12.1	930	6	-
30x	2.5/10RE	1.8	28.0	7.41	1290	12	-

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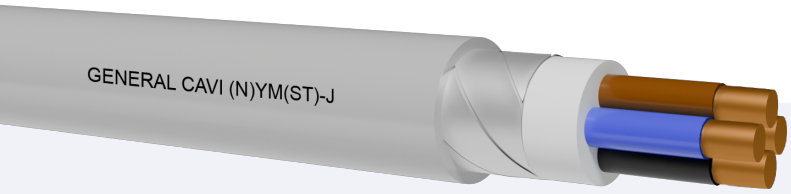
(N)YM(St)-J 300/500V

[D]CPR Eca

Model Product: GT3 - 20241025



PVC INSULATED CABLES UNDER PVC SHEATH, WITH ALUMINIUM POLYESTER SCREEEN AND RIGID CONDUCTOR IN RED COPPER.

Rigid class 1 red copper conductor.
PVC insulation, VDE 0207
PVC Sheath, VDE 207
Screen tapes of aluminum / polyester
PVC Sheath, VDE 207

STANDARDS

DIN VDE 0250 N°125005 UG
EN 50575:2014 + EN 50575/A1:2016

Accordingly to the standards BT 2014/35/UE- 2011/65/EU (RoHS 3)

Nominal voltage U0: 300 V
Nominal voltage U: 500 V
Maximun operating temperature: +70°C
Maximun short circuit temperature: +160°C
Minimum installation and laying temperature: +5°C
Min. operating temperature (without mechanical shocks): -20°C

CORE COLOURS

Multicores: Accordingto DIN VDE 0293-308

SHEATH COLOUR

Grey

NOTE

I dentification marking.

COMMON FEATURES

For electrical circuits requiring protection from electromagnetic interference, in particular in information technology, hospitals and measuring instruments sensitive to external interference.
Can be laid outdoors in humid, dry or rainy environments, and indoors in brickwork and concrete structures. It is not permitted under compressed, solidified reinforced concrete. Outdoor use is only permitted with protection from solar radiation. It must not be laid underground. Can be used in static installations down to -20°C.Supply of electricity and communications in buildings and other civil engineering works with the objective of limiting the generation and spread of fire and smoke.

EMPLOYMENT

Minimum bending radius per D cable diameter (in mm): 4D

Maximum pulling stress: 5 kg/mmq

Cores number	Approx conductor diameter	Average insulation thickness	Average sheath thickness	Maximum external diameter	Electric resistance at 20°C	Approx cable weight
(N° x sect.)	(mm)	(mm)	(mm)	(mm)	(Ohm/km)	(kg/km)
Multicores						
3 x 1.5/1.5	1.4	0.6	1.4	12.6	12.1	120
3 x 2.5/1.5	1.8	0.7	1.4	13.8	7.41	163
4 x 1.5/1.5	1.4	0.6	1.4	13.2	12.1	160
4 x 2.5/1.5	1.8	0.7	1.4	15.0	7.41	210
5 x 1.5/1.5	1.4	0.6	1.4	14.4	12.1	170

(N)YM(St)-J 300/500V

[D]CPR Eca

Model Product: GT3 - 20241025

Cores number	Approx conductor diameter	Average insulation thickness	Average sheath thickness	Maximum external diameter	Electric resistance at 20°C	Approx cable weight
(N° x sect.)	(mm)	(mm)	(mm)	(mm)	(Ohm/km)	(kg/km)
5 x 2.5/1.5	1.8	0.7	1.4	16.2	7.41	247
7 x 1.5/1.5	1.4	0.6	1.4	15.6	12.1	210

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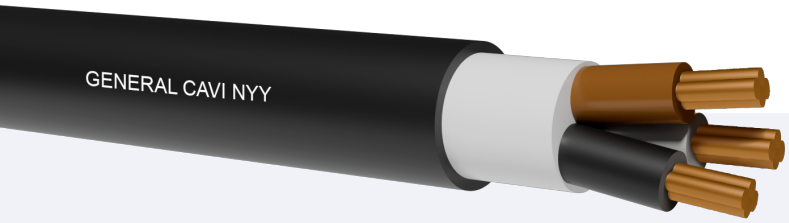
Catalogo prodotti da costruzione CPR UE305/2011

NYY 0,6/1kV

[D]CPR Eca

Model Product: 427-428 - 20181005



PVC cable with copper conductors UV-resistant no Flame propagation

Rigid class 1 and class 2 red copper conductor.
PVC insulation, DIV4.
PVC Sheath, DMV5.

STANDARDS

DIN VDE 0276-603.3G HD 603.3G
EN 50575:2014 + EN 50575/A1:2016

Accordingly to the standards BT 2014/35/UE- RoHS 3: 2002/95/EC

Nominal voltage U0: 600 V
Nominal voltage U: 1000 V
Test voltage: 4000 V
Maximun voltage Um: 1200 V
Maximun operating temperature: +70°C
Maximun short circuit temperature for sections up to 240mm²: +160°C
Maximun short circuit temperature for sections over 240mm²: +140°C
Minimum installation and laying temperature: -5°C
Min. operating temperature (without mechanical shocks): -40°C

COMMON FEATURES

Distribution, connection and installation of cables, power plants, industrial plants and distribution networks. Insensitive to occasional impacts (eg splashes) of oils and fuels. These cables meet the requirements according to IEC 60502-1.Supply of electricity and communications in buildings and other civil engineering works with the objective of limiting the generation and spread of fire and smoke.Supply of electricity and communications in buildings and other civil engineering works with the objective of limiting the generation and spread of fire and smoke

EMPLOYMENT

Minimum bending radius per D cable diameter (in mm): 12D - 15D

Maximum pulling stress: 50 N/mmq

CORE COLOURS

Single core: NYY-O black, NYY-J green-yellow

Two cores: NYY-O blue, brown

Three cores: NYY-O-brown, black, gray NYY-J green-yellow, blue, brown

Four cores: NYY-O blue, brown, black, gray NYY-J green-yellow, brown, black, gray

Five cores: NYY-J green-yellow, blue, brown, black, gray

SHEATH COLOUR

black

INK MARKING

General Cavi NYY Year construction and batch processing

NYY 0,6/1kV

[D]CPR Eca

Model Product: 427-428 - 20181005

Formation	Section	Approx cond. diameter	Thickness of the insulation	Outer diameter	Approx cable weight	Minimum radius bending	Electric resistance at 20°C	Current rating for Installation on the wall Reference method C *	
								Two loaded cores	3 loaded cores
(N°)	(mmq)	(mm)	(mm)	(mm)	(kg/km)	(mm)	(Ohm/km)	(A)	(A)
Single core									
1x	4*	2.3	1.0	9	120	135	4.61	36	32
1x	6*	2.8	1.0	9	145	135	3.08	46	41
1x	10*	4	1.0	10	190	150	1.83	63	57
1x	16*	5.1	1.0	11	255	165	1.15	85	76
1x	25*	6.4	1.2	13	380	195	0.727	112	96
1x	35*	7.3	1.2	14	480	210	0.524	138	119
1x	50*	8.5	1.4	16	630	240	0.387	168	144
1x	70*	10.2	1.4	17	830	255	0.268	213	184
1x	95*	12	1.6	19	1150	285	0.193	258	223
1x	120*	13.4	1.6	21	1350	315	0.153	299	259
1x	150*	14.6	1.8	23	1650	345	0.124	344	299
1x	185*	16.4	2.0	25	2050	375	0.0991	392	341
1x	240*	18.6	2.2	27	2600	405	0.0754	461	403
1x	300*	21.1	2.4	30	3250	450	0.0601	530	464
1x	400*	23.5	2.6	34	4100	510	0.0470	-	-
1x	500*	26.5	2.8	38	5200	570	0.0366	-	-
Two cores									
2x	1.5	1.4	0.8	12	210	144	12.1	19.5	-
2x	2.5	1.8	0.8	12	250	144	7.41	27	-
2x	4	2.3	1.0	15	360	180	4.61	36	-
2x	6	2.8	1.0	15	400	180	3.08	46	-
2x	10	4	1.0	17	500	204	1.83	63	-
2x	16	5.1	1.0	19	700	228	1.15	85	-
2x	25	6.4	1.2	23	1000	276	0.727	112	-
Three cores									
3x	1.5	1.4	0.8	12	230	144	12.1	19.5	17.5
3x	2,5	1.8	0.8	13	280	156	7.41	27	24
3x	4	2.3	1.0	15	400	180	4.61	36	32
3x	6	2.8	1.0	16	460	192	3.08	46	41
3x	10	4	1.0	18	660	216	1.83	63	57
3x	16	5.1	1.0	20	900	240	1.15	85	76
3x	25	6.4	1.2	24	1300	288	0.727	112	96
3x	35	7.3	1.2	25.4	1450	305	0.524	138	119
Four cores									
4x	1.5	1.4	0.8	13	260	156	12.1	19.5	17.5

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NYY 0,6/1kV

[D]CPR Eca

Model Product: 427-428 - 20181005

Formation	Section	Approx cond. diameter	Thickness of the insulation	Outer diameter	Approx cable weight	Minimum radius bending	Electric resistance at 20°C	Current rating for Installation on the wall Reference method C *	
								Two loaded cores	3 loaded cores
(N°)	(mmq)	(mm)	(mm)	(mm)	(kg/km)	(mm)	(Ohm/km)	(A)	(A)
4x	2.5	1.8	0.8	14	320	168	7.41	27	24
4x	4	2.3	1.0	16	450	192	4.61	36	32
4x	6	2.8	1.0	17	550	204	3.08	46	41
4x	10	4	1.0	19	750	228	1.83	63	57
4x	16	5.1	1.0	21	1100	252	1.15	85	76
4x	25	6.4	1.2	26	1600	312	0.727	112	96
4x	35	7.3	1.2	28	1800	336	0.524	138	119
4x	50	8.5	1.4	30.5	2380	366	0.387	168	144
4x	70	10.2	1.4	34.5	3100	414	0.268	213	184
Five cores									
5x	1.5	1.4	0.8	14	300	168	12.1	19.5	17.5
5x	2.5	1.8	0.8	15	365	180	7.41	27	24
5x	4	2.3	1.0	17	500	204	4.61	36	32
5x	6	2.8	1.0	19	680	228	3.08	46	41
5x	10	4	1.0	21	930	252	1.83	63	57
5x	16	5.1	1.0	23	1250	276	1.15	85	76
5x	25	6.4	1.2	29	1950	348	0.727	112	96
5x	35	7.3	1.2	35	2400	420	0.525	138	119
5x	50	8.5	1.2	41	3500	492	0.387	168	144
5x	70	10.2	1.4	48	4000	576	0.268	213	184
Multicores									
7x	1.5	1.4	0.8	16	310	192	12.1	19.5	17.5
7x	2.5	1.8	0.8	17	450	204	7.41	27	24
7x	4	2.3	1.0	19	650	228	4.61	36	32
7x	6	2.8	1.0	24	850	288	3.08	46	41
12x	1.5	1.4	0.8	19.5	420	234	12.1	19	17
12x	2.5	1.8	0.8	21	600	252	7.41	27	24
14x	1.5	1.4	0.8	20.5	470	246	12.1	19	17
14x	2.5	1.8	0.8	21.5	680	258	7.41	27	24
16x	1.5	1.4	0.8	21.5	520	258	12.1	19	17
16x	2.5	1.8	0.8	22.5	750	270	7.41	27	24
19x	1.5	1.4	0.8	22.5	570	270	12.1	19	17
19x	2.5	1.8	0.8	23.5	850	282	7.41	27	24
21x	1.5	1.4	0.8	23.5	650	282	12.1	19	17
21x	2.5	1.8	0.8	25	985	300	7.41	27	24
24x	1.5	1.4	0.8	25.5	760	306	12.1	19	17

NYY 0,6/1kV

[D]CPR Eca

Model Product: 427-428 - 20181005

Formation	Section	Approx cond. diameter	Thickness of the insulation	Outer diameter	Approx cable weight	Minimum radius bending	Electric resistance at 20°C	Current rating for Installation on the wall Reference method C *	
								Two loaded cores	3 loaded cores
(N°)	(mmq)	(mm)	(mm)	(mm)	(kg/km)	(mm)	(Ohm/km)	(A)	(A)
24x	2.5	1.8	0.8	27.5	1120	330	7.41	27	24
30x	1.5	1.4	0.8	26.5	880	318	12.1	19	17
30x	2.5	1.8	0.8	28.5	1300	342	7.41	27	24

*CPR Eca
According to DIN VDE 0298-4
1 ** The values of the current carrying capacity for all 1-wire cables are for the laying of two cables touch (2-loaded core) concentrated in the triangle (three loaded cores).

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NSGAFÖU 1.8/3kV

[D] CPR Eca

Model Product: 282 - 20220630

Flexible conductor TINNED copper, class 5.
RUBBER insulation, 3GI3.
Polychloroprene sheath, 5GM3.

STANDARDS

Complies with DIN VDE 0250 part 602 DIN VDE 0472 part 804
EN 50575:2014 + EN 50575/A1:2016

Accordingly to the standards 2011/65/EU (RoHS 3)

COMMON FEATURES

Particularly suitable for protection against short circuits in laying and for earth-fault-proof routing in rail vehicles and omnibuses. Also suitable for laying in dry environments.Machinery, appliances and cabinet wiring Rail vehicles, buses, switching stations (short circuit protected to 1000 V) distribution (short-circuit protected to 1000 V) No direct burial, by carrying out fire barriers such as cups of sand In pipes and closed installation ducts Bundled or for connection of moving parts For fixed installation and occasional free movement in indoors and outdoors.Supply of electricity and communications in buildings and other civil engineering works with the objective of limiting the generation and spread of fire and smoke.

EMPLOYMENT

Minimum bending radius per D cable diameter (in mm): 4D

Maximum pulling stress: 50 N/mmq

PACKING

Long lengths on cable drums or coils in thermo foil.

SPECIAL RUBBER-INSULATED SINGLE CORE CABLE

Nominal voltage U0: 1800 V

Nominal voltage U: 3000 V

Test voltage: 6000 V

Maximun operating temperature: +90°C

Maximun short circuit temperature: +250°C

Minimum installation and laying temperature: -25°C

Min. operating temperature (without mechanical shocks): -40 °C

INK MARKING

Identification marking.

NOTE

Separator tape over the conductor
Stranded conductor of tinned copper DIN VDE cl.5 and IEC 60228 cl.5.
Ethylene-propylene (EPR) insulation type 3GI3 DIN VDE 0207 part 20.
Polychloroprene (PCP) outer jacket type 5GM3 DIN VDE 0207 part 21

NSGAFÖU 1.8/3kV

[D] CPR Eca

Model Product: 282 - 20220630

Cores number x cross section	Single wire diameter	Maximum electric resistance	Current carrying capacities				Min. insulation thickness	Min. sheath thickness	Max. external diameter	Approx cable weight
			Free in air	Fixed Lay Single	Fixed Lay Loom	Fixed Lay In pipe				
(N° x mm²)	(mm)	(Ohm/km)	(A)	(A)	(A)	(A)	(mm)	(mm)	(mm)	(kg/km)
Single core										
1x1,5	0,26	13.7	30	28	19	15	1.3	0.8	6.3	51
1x2,5	0,26	8.21	41	38	27	21	1.3	0.8	6.7	63
1x4	0,31	5.09	55	52	36	29	1.3	0.8	7.4	82
1x6	0,31	3.39	70	66	46	37	1.3	0.8	7.9	103
1x10	0,41	1.95	98	93	65	52	1.5	0.8	9.5	159
1x16	0,41	1.24	132	125	87	70	1.5	0.8	10.5	219
1x25	0,41	0.795	176	167	117	93	1.6	1.0	12.8	335
1x35	0,41	0.565	218	207	144	115	1.6	1.0	14.1	435
1x50	0,41	0.393	276	262	183	146	1.8	1.0	15.9	582
1x70	0,51	0.277	347	329	230	185	1.8	1.0	17.8	757
1x95	0,51	0.210	416	395	276	221	2.2	1.0	20.1	1040
1x120	0,51	0.164	488	463	324	259	2.2	1.0	22.0	1289
1x150	0,51	0.132	566	537	376	301	2.2	1.2	24.0	1581
1x185	0,51	0.108	644	611	428	342	2.4	1.2	26.3	1895
1x240	0,51	0.0817	775	736	515	412	2.6	1.2	29.6	2452
1x300	0,51	0.0654	879	836	584	467	2.8	1.2	32.2	2998
1x400	0.51	0.0495	920	906	611	583	3.0	1.4	36.2	3900

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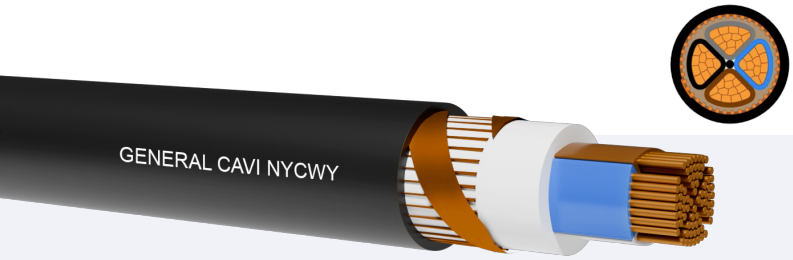
NYCWY 0,6/1 kV

[D]

Model Product: 433 - 20241025



Rigid class 1 and class 2 red copper conductor.
PVC insulation, DIV4.
Concentric copper wires shield
PVC Sheath, DMV5.

STANDARDS

DIN VDE 0276 part 603, HD 603 S1 and IEC 60502

Accordingly to the standards BT 2014/35/UE-2011/65/EU (RoHS 2)

COMMON FEATURES

Power cables for energy supply are used for industry and distribution boards, power stations, house connecting boxes and street lighting as well as control cable for the transmission of control impulses and test datas. Overall, where increased electrical and also mechanical protection are required. Those cables are installed in open air, in underground, in water, indoors and in cable ducts. The concentric conductor (C) is allowed to use as PE-, PEN-conductor or as screen.

EMPLOYMENT

Minimum bending radius per D cable diameter (in mm):
for single core approx. 15x cable ø
for multi core approx. 12x cable ø

Maximum pulling stress: Max. permissible tensile stress with cable grip for Cu-conductor = 50 N/mm²

Power cable, 0,6/1kV, with concentric copper conductor, VDE approved

Nominal voltage U0: 600 V
Nominal voltage U: 1000 V
Test voltage: 4000 V
Maximun voltage Um: 1200V three-phase 1400Vsingle-phase 1800V CC
Maximun operating temperature: + 70°C
Maximun short circuit temperature for sections up to 240mm²: +160°C
Minimum installation and laying temperature: -5°C
Min. operating temperature (without mechanical shocks): -40°C

CORE COLOURS

Two cores: blue, brown

Three cores: brown-black-gray (or blue-brown-Y/R)

Four cores: blue-brown-black-gray (Y/G no blue);

SHEATH COLOUR

Black

INK MARKING

General Cavi VDE 0276 NYCWY 0,6/1kV

NYCWY 0,6/1kV

N.cores x cross.sec.	Outer Ø approx.	Cop. weight	Weight approx.	Electric resistance at 20°C	Current rating for Installation on the wall Reference method C *	
					Two loaded cores	3 loaded cores
(N° x mm²)	(mm)	(kg / km)	(kg / km)	(Ohm/km)	(A)	(A)
Two cores						
2x10 re / 10	19	312	650	1.83	63	-
2x16 re/ 16	21	489	850	1.15	85	-
2x25 rm/25	24	763	1210	0.727	112	-
Three cores						
3x10 re /10	19.5	408	730	1.83	63	57
3x16 re/16	22	643	1000	1.15	85	76
3x25 rm/16	26	902	1550	0.727	112	96
3x25 rm/25	26	1003	1600	0.727	112	96
3x35 sm/16	27	1190	1750	0.524	138	119
3x35 sm/35	27.5	1402	1850	0.524	138	119
3x50 sm/25	29.5	1723	2250	0.387	168	144
3x50 sm/50	29.5	2000	2450	0.387	168	144
3x70 sm/35	33	2410	2950	0.268	213	184
3x70 sm/70	34	2796	3350	0.268	213	184
3x95 sm/50	38	3296	4100	0.193	258	223
3x95 sm/95	38.5	3791	4550	0.193	258	223
3x120 sm/70	41	4236	5050	0.153	299	259
3x120 sm/120	42	4786	5550	0.153	299	259
3x150 sm/70	45	5100	6000	0.124	344	299
3x150 sm/150	46	5970	6900	0.124	344	299
3x185 sm/ 95	50	6383	7550	0.0991	392	341
3x185 sm/185	51	7363	8500	0.0991	392	341
3x240 sm/ 120	57	8242	9950	0.0754	461	403
Four cores						
4x10 re/ 10	20.5	504	890	1.83	63	57
4x16 re/ 16	23.5	796	1250	1.15	85	76
4x25 rm/ 16	28	1142	1800	0.727	112	96
4x35 sm/ 16	29	1526	2050	0.524	138	119
4x50 sm/ 25	33	2203	2700	0.387	168	144
4x70 sm/ 35	37	3082	3750	0.268	213	184
4x95 sm/ 50	43	4208	5000	0.193	258	223
4x120 sm/70	47	5388	6350	0.153	299	259
4x150 sm/ 70	51	6540	7650	0.124	344	299

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NYCWY 0,6/1 kV

[D]

Model Product: 433 - 20241025

N.cores x cross.sec.	Outer Ø approx.	Cop. weight	Weight approx.	Electric resistance at 20°C	Current rating for Installation on the wall Reference method C *	
					Two loaded cores	3 loaded cores
(N° x mm²)	(mm)	(kg / km)	(kg / km)	(Ohm/km)	(A)	(A)
4x185 sm/ 95	56	8159	9350	0.0991	392	341
4x240 sm/ 120	62.5	10546	11600	0.0754	461	403

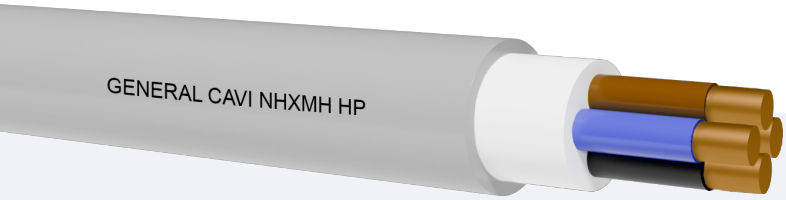
- At 25 mm² = round cables are more compact thus smaller core ø.
- Available with outer sheath in alternative colours on request.
- re = round solid core;
  rm = stranded core;
  sm = sectional core.

Dimensions and specifications may be changed without prior notice.

NHXMH HP 300/500V

[D]CPR Cca-s1,d2,a1

Model Product: B81-B82 - 20241114



Rigid class 1 and class 2 red copper conductor.
XLPE Crosslinked polyethylene insulation, 2XI1
Not fibrous and not hygroscopic filler
LSZH thermoplastic sheath, HM2.

STANDARDS

DIN VDE 0250-214 DIN VDE 0207 DIN VDE 0472
EN 50575:2014 + EN 50575/A1:2016

Accordingly to the standards BT 2014/35/UE- 2011/65/EU (RoHS 3)

COMMON FEATURES

Halogen-free plastic sheathed cable with enhanced characteristics in case of fire, used for applications where harm to human life and damage to property must be prevented in the event of fire, e.g. industrial installations, communal establishment, hotels, airports, underground stations, railway stations, hospitals, departmental stores, banks, schools, theaters, multi storey buildings, process control centres. Suitable for installation in dry, damp or wet environments, for installation above and below plaster as well as masonry walls and in concrete, nevertheless not suitable for direct use in compacted or tamped concrete. Also suitable for outdoor applications.Supply of electricity and communications in buildings and other civil engineering works with the objective of limiting the generation and spread of fire and smoke.

EMPLOYMENT

Minimum bending radius per D cable diameter (in mm):
Normal use = 4D <8 - 5D <12 - 6D >12
Accurate bending close to the terminal = 2D <8 - 3D <12 - 4D >12

Maximum pulling stress: 50 N/mmq

PACKING

100mt. rings in thermoplastic film or drums to agree.

XLPE INSULATED CABLES OF RATED VOLTAGES UP TO 300/500V WITH CROSSLINKED POLYMER AND L.S.0.H.

Nominal voltage U0: 300 V
Nominal voltage U: 500 V
Maximun operating temperature: +70°C
Maximun short circuit temperature: +160°C
Minimum installation and laying temperature: +5°C
Min. operating temperature (without mechanical shocks): -40°C

CORE COLOURS

Single core: NHXMH-O black; NHXMH-J Y/G

Two cores: blue-brown

Three cores: Y/G-blue-brown

Four cores: Y/G-brown-black-grey

Five cores: Y/G-blue-brown-black-grey

SHEATH COLOUR

grey

INK MARKING

GENERAL CAVI Cca-s1,d2,a1 <VDE> NHXMH HP 300/500V n° x sect year

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NHXMH HP 300/500V

[D]CPR Cca-s1,d2,a1

Model Product: B81-B82 - 20241114

Cores number	Cross section	Insulation medium thickness	Sheath medium thickness	Approx external production diameter		Approx cable weight	Electric resistance at 20°C	Heat index	Max short circuit current
				min	max				
(N°)	(mm²)	(mm)	(mm)	(mm)	(mm)	(kg/km)	(Ohm/km)	(kWh/m)	(kA)
Single core									
1x	4RE	0.6	1.4	6.0	10.0	-	4.61	0.42	0.46
1x	6RE	0.6	1.4	6.4	10.5	-	3.08	0.44	0.69
1x	10RE	0.7	1.4	7.4	12.0	-	1.83	0.53	1.15
1x	16RM	0.7	1.4	8.6	13.5	-	1.15	0.64	1.84
Two cores									
2x	1.5RE	0.5	1.4	8.0	9.4	120	12.1	0.36	0.17
2x	2.5RE	0.5	1.4	8.8	10.5	150	7.41	0.42	0.29
2x	4RE	0.6	1.4	10.0	12.0	215	4.61	0.56	0.46
2x	6RE	0.6	1.4	11.5	13.2	295	3.08	1.5	0.69
2x	10RE	0.7	1.6	12.5	16.2	448	1.83	1.5	1.15
2x	16RM	0.7	1.6	18.8	23.2	670	1.15	1.8	1.84
2X	25RM	0.9	1.6	22.5	25.5	1080	0.727	2.6	2.88
2X	35RM	0.9	1.8	24.9	26.6	1400	0.524	3.1	4.02
Three cores									
3x	1.5RE	0.5	1.4	8.4	9.8	133	12.1	0.42	0.17
3x	2.5RE	0.5	1.4	9.3	11.0	176	7.41	0.47	0.26
3x	4RE	0.6	1.4	10.5	12.5	247	4.61	0.61	0.46
3x	6RE	0.6	1.6	12.0	14.0	335	3.08	0.78	0.69
3x	10RE	0.7	1.6	14.5	16.5	496	1.83	1.1	1.15
3x	16RM	0.7	1.6	18.2	21.5	755	1.15	1.8	1.84
3x	25RM	0.9	1.8	22.9	25.3	1200	0.727	2.6	2.88
3x	35RM	0.9	1.8	25.9	28.1	1300	0.524	3.1	4.02
Four cores									
4x	1.5RE	0.5	1.4	9.0	10.5	142	12.1	0.47	0.17
4x	2.5RE	0.5	1.4	10.0	11.5	188	7.41	0.56	0.29
4x	4RE	0.6	1.6	12.0	14.0	279	4.61	0.78	0.46
4x	6RE	0.6	1.6	12.5	15.5	371	1.83	1.3	1.15
4x	10RE	0.7	1.6	15.5	18.0	569	1.83	1.3	1.15
4x	16RM	0.7	1.6	19.0	22.5	849	1.15	1.8	1.84
4x	25RM	0.9	1.8	23.5	28.0	1298	0.73	2.6	2.88
4x	35RM	0.9	1.8	26.5	31.0	1731	0.52	3.1	4.02
Five cores									
5x	1.5RE	0.5	1.4	9.6	11.5	183	12.1	0.56	0.17
5x	2.5RE	0.5	1.4	10.5	12.5	249	7.41	0.64	0.29
5x	4RE	0.6	1.6	13.0	15.5	370	4.61	0.98	0.46

NHXMH HP 300/500V

[D]CPR Cca-s1,d2,a1

Model Product: B81-B82 - 20241114

Cores number	Cross section	Insulation medium thickness	Sheath medium thickness	Approx external production diameter		Approx cable weight	Electric resistance at 20°C	Heat index	Max short circuit current
				min	max				
(N°)	(mm²)	(mm)	(mm)	(mm)	(mm)	(kg/km)	(Ohm/km)	(kWh/m)	(kA)
5x	6RE	0.6	1.6	14.5	16.5	488	3.08	1.1	0.69
5x	10RE	0.7	1.6	17.0	19.5	739	1.83	1.5	1.15
5x	16RM	0.7	1.8	21.0	25.0	-	1.15	2.2	1.84
5x	25RM	0.9	1.8	25.5	30.5	-	0.73	2.6	2.88
5x	35RM	0.9	1.8	31.9	34.5	2210	0.52	3.1	4.02
Multicores									
7x	1.5RE	0.5	1.4	10.0	12.0	250	12.1	0.64	0.17
7x	2.5RE	0.5	1.6	12.0	14.0	350	7.41	0.81	0.29

RE=rigid single wire conductor class 1
RM=rigid stranded multiwires conductor class 2

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NHXMH NORTH WAY 300/500V

[D]CPR Cca-s1,d1,a1

Model Product: B79-B80 - 20241108

Rigid class 1 and class 2 red copper conductor.
XLPE Crosslinked polyethylene insulation, 2XI1
Not fibrous and not hygroscopic filler
LSZH thermoplastic sheath, HM2.

STANDARDS

DIN VDE 0250-214 DIN VDE 0207 DIN VDE 0472
EN 50575:2014 + EN 50575/A1:2016

Accordingly to the standards BT 2014/35/UE- 2011/65/EU (RoHS 3)

XLPE INSULATED CABLES OF RATED VOLTAGES UP TO 300/500V WITH CROSSLINKED POLYMER AND L.S.0.H.

Nominal voltage U0: 300 V
Nominal voltage U: 500 V
Maximun operating temperature: +70°C
Maximun short circuit temperature: +160°C
Minimum installation and laying temperature: +5°C
Min. operating temperature (without mechanical shocks): -40°C

COMMON FEATURES

Halogen-free plastic sheathed cable with enhanced characteristics in case of fire, used for applications where harm to human life and damage to property must be prevented in the event of fire, e.g. industrial installations, communal establishment, hotels, airports, underground stations, railway stations, hospitals, departmental stores, banks, schools, theaters, multi storey buildings, process control centres. Suitable for installation in dry, damp or wet environments, for installation above and below plaster as well as masonry walls and in concrete, nevertheless not suitable for direct use in compacted or tamped concrete. Also suitable for outdoor applications.Supply of electricity and communications in buildings and other civil engineering works with the objective of limiting the generation and spread of fire and smoke. UV resistence

EMPLOYMENT

Minimum bending radius per D cable diameter (in mm):
Normal use = 4D <8 - 5D <12 - 6D >12
Accurate bending close to the terminal = 2D <8 - 3D <12 - 4D >12

Maximum pulling stress: 50 N/mmq

PACKING

100mt. rings in thermoplastic film or drums to agree.

CORE COLOURS

Single core: NHXMH-O black; NHXMH-J Y/G

Two cores: blue-brown

Three cores: Y/G-blue-brown

Four cores: Y/G-brown-black-grey

Five cores: Y/G-blue-brown-black-grey

SHEATH COLOUR

white

INK MARKING

GENERAL CAVI Cca-s1,d1,a1 <VDE> NHXMH NORTH WAY 300/500V n° x sect year

NHXMH NORTH WAY 300/500V

[D]CPR Cca-s1,d1,a1

Model Product: B79-B80 - 20241108

Cores number	Cross section	Insulation medium thickness	Sheath medium thickness	Approx external production diameter		Approx cable weight	Electric resistance at 20°C	Heat index	Max short circuit current
				min	max				
(N°)	(mm²)	(mm)	(mm)	(mm)	(mm)	(kg/km)	(Ohm/km)	(kWh/m)	(kA)
Single core									
1x	4RE	0.6	1.4	6.0	10.0	-	4.61	0.42	0.46
1x	6RE	0.6	1.4	6.4	10.5	-	3.08	0.44	0.69
1x	10RE	0.7	1.4	7.4	12.0	-	1.83	0.53	1.15
1x	16RM	0.7	1.4	8.6	13.5	-	1.15	0.64	1.84
Two cores									
2x	1.5RE	0.5	1.4	8.0	9.4	120	12.1	0.36	0.17
2x	2.5RE	0.5	1.4	8.8	10.5	150	7.41	0.42	0.29
2x	4RE	0.6	1.4	10.0	12.0	215	4.61	0.56	0.46
2x	6RE	0.6	1.4	11.5	13.2	295	3.08	1.5	0.69
2x	10RE	0.7	1.6	12.5	16.2	448	1.83	1.5	1.15
2x	16RM	0.7	1.6	18.8	23.2	670	1.15	1.8	1.84
2X	25RM	0.9	1.6	22.5	25.5	1080	0.727	2.6	2.88
2X	35RM	0.9	1.8	24.9	26.6	1400	0.524	3.1	4.02
Three cores									
3x	1.5RE	0.5	1.4	8.4	9.8	133	12.1	0.42	0.17
3x	2.5RE	0.5	1.4	9.3	11.0	176	7.41	0.47	0.26
3x	4RE	0.6	1.4	10.5	12.5	247	4.61	0.61	0.46
3x	6RE	0.6	1.6	12.0	14.0	335	3.08	0.78	0.69
3x	10RE	0.7	1.6	14.5	16.5	496	1.83	1.1	1.15
3x	16RM	0.7	1.6	18.2	21.5	755	1.15	1.8	1.84
3x	25RM	0.9	1.8	22.9	25.3	1200	0.727	2.6	2.88
3x	35RM	0.9	1.8	25.9	28.1	1300	0.524	3.1	4.02
Four cores									
4x	1.5RE	0.5	1.4	9.0	10.5	142	12.1	0.47	0.17
4x	2.5RE	0.5	1.4	10.0	11.5	188	7.41	0.56	0.29
4x	4RE	0.6	1.6	12.0	14.0	279	4.61	0.78	0.46
4x	6RE	0.6	1.6	12.5	15.5	371	1.83	1.3	1.15
4x	10RE	0.7	1.6	15.5	18.0	569	1.83	1.3	1.15
4x	16RM	0.7	1.6	19.0	22.5	849	1.15	1.8	1.84
4x	25RM	0.9	1.8	23.5	28.0	1298	0.73	2.6	2.88
4x	35RM	0.9	1.8	26.5	31.0	1731	0.52	3.1	4.02
Five cores									
5x	1.5RE	0.5	1.4	9.6	11.5	183	12.1	0.56	0.17
5x	2.5RE	0.5	1.4	10.5	12.5	249	7.41	0.64	0.29
5x	4RE	0.6	1.6	13.0	15.5	370	4.61	0.98	0.46

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NHXMH NORTH WAY 300/500V

[D]CPR Cca-s1,d1,a1

Model Product: B79-B80 - 20241108

Cores number	Cross section	Insulation medium thickness	Sheath medium thickness	Approx external production diameter		Approx cable weight	Electric resistance at 20°C	Heat index	Max short circuit current
				min	max				
(N°)	(mm²)	(mm)	(mm)	(mm)	(mm)	(kg/km)	(Ohm/km)	(kWh/m)	(kA)
5x	6RE	0.6	1.6	14.5	16.5	488	3.08	1.1	0.69
5x	10RE	0.7	1.6	17.0	19.5	739	1.83	1.5	1.15
5x	16RM	0.7	1.8	21.0	25.0	-	1.15	2.2	1.84
5x	25RM	0.9	1.8	25.5	30.5	-	0.73	2.6	2.88
5x	35RM	0.9	1.8	31.9	34.5	2210	0.52	3.1	4.02
Multicores									
7x	1.5RE	0.5	1.4	10.0	12.0	250	12.1	0.64	0.17
7x	2.5RE	0.5	1.6	12.0	14.0	350	7.41	0.81	0.29

RE=rigid single wire conductor class 1
RM=rigid stranded multiwires conductor class 2

NHXMH UHP 300/500V

[D]ULTRA HIGH PERFORMANCE CPR B2ca-s1a,d1,a1

Model Product: B77-B78 - 20250311

Rigid class 1 and class 2 red copper conductor.
XLPE Crosslinked polyethylene insulation, 2XI1
Not fibrous and not hygroscopic filler
LSZH thermoplastic sheath, HM2.

STANDARDS

DIN VDE 0250-214 DIN VDE 0207 DIN VDE 0472
EN 50575:2014 + EN 50575/A1:2016

Accordingly to the standards BT 2014/35/UE- 2011/65/EU (RoHS 3)

COMMON FEATURES

Halogen-free sheathed cable with enhanced characteristics in case of fire, used for applications where harm to human life and damage to property must be prevented in the event of fire, e.g. industrial installations, communal establishment, hotels, airports, underground stations, railway stations, hospitals, departmental stores, banks, schools, theaters, multi storey buildings, process control centres. Suitable for installation in dry, damp or wet environments, for installation above and below plaster as well as masonry walls and in concrete, nevertheless not suitable for direct use in compacted or tamped concrete. Also suitable for outdoor applications.Supply of electricity and communications in buildings and other civil engineering works with the objective of limiting the generation and spread of fire and smoke.- Insulation tested up to +90°C

EMPLOYMENT

Minimum bending radius per D cable diameter (in mm):
Normal use = 4D <8 - 5D <12 - 6D >12
Accurate bending close to the terminal = 2D <8 - 3D <12 - 4D >12

Maximum pulling stress: 50 N/mmq

PACKING

100mt. rings in thermoplastic film or drums to agree.

XLPE INSULATED CABLES OF RATED VOLTAGES UP TO 300/500V WITH CROSSLINKED POLYMER AND L.S.0.H.

Nominal voltage U0: 300 V
Nominal voltage U: 500 V
Maximun operating temperature: +70°C(+90°C)
Maximun short circuit temperature: +160°C(+250°C)
Minimum installation and laying temperature: +5°C
Min. operating temperature (without mechanical shocks): -40°C

CORE COLOURS

Two cores: blue-brown

Three cores: Y/G-blue-brown

Four cores: Y/G-brown-black-grey

Five cores: Y/G-blue-brown-black-grey

SHEATH COLOUR

grey

INK MARKING

GENERAL CAVI B2ca-s1a,d1,a1 <VDE> NHXMH UHP 300/500V n° x sect year

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NHXMH UHP 300/500V

[D]ULTRA HIGH PERFORMANCE CPR B2ca-s1a,d1,a1

Model Product: B77-B78 - 20250311

general cavi s.p.a.

ULTRA HP CPR B2ca-s1a,d1,a1

Cores number	Cross section	Insulation medium thickness	Sheath medium thickness	MAXIMUM external diameter mm	Approx cable weight	Electric resistance at 20°C	Heat index	Max short circuit current
(N°)	(mm²)	(mm)	(mm)	(mm)	(kg/km)	(Ohm/km)	(kWh/m)	(kA)
Two cores								
2x	1.5RE	0.5	1.4	9.02	116	12.1	0.36	0.17
2x	2.5RE	0.5	1.4	9.78	149	7.41	0.42	0.29
2x	4RE	0.6	1.4	11.16	200	4.61	0.56	0.46
2x	6RE	0.6	1.4	12.17	257	3.08	1.5	0.69
2x	10RE	0.7	1.6	15.30	385	1.83	1.5	1.15
2x	16RM	0.7	1.6	17.90	524	1.15	1.8	1.84
2X	25RM	0.9	1.6	21.05	749	0.727	2.6	2.88
2X	35RM	0.9	1.8	23.68	997	0.524	3.1	4.02
Three cores								
3x	1.5RE	0.5	1.4	9.60	138	12.1	0.42	0.17
3x	2.5RE	0.5	1.4	10.42	176	7.41	0.47	0.26
3x	4RE	0.6	1.4	11.70	235	4.61	0.61	0.46
3x	6RE	0.6	1.6	13.20	320	3.08	0.78	0.69
3x	10RE	0.7	1.6	16.12	493	1.83	1.1	1.15
3x	16RM	0.7	1.6	18.92	697	1.15	1.8	1.84
3x	25RM	0.9	1.8	22.84	1046	0.727	2.6	2.88
3x	35RM	0.9	1.8	25.25	1416	0.524	3.1	4.02
Four cores								
4x	1.5RE	0.5	1.4	10.22	142	12.1	0.47	0.17
4x	2.5RE	0.5	1.4	11.14	188	7.41	0.56	0.29
4x	4RE	0.6	1.6	12.99	279	4.61	0.78	0.46
4x	6RE	0.6	1.6	14.22	371	1.83	1.3	1.15
4x	10RE	0.7	1.6	17.44	569	1.83	1.3	1.15
4x	16RM	0.7	1.6	20.58	849	1.15	1.8	1.84
4x	25RM	0.9	1.8	24.93	1298	0.73	2.6	2.88
4x	35RM	0.9	1.8	27.63	1731	0.52	3.1	4.02
Five cores								
5x	1.5RE	0.5	1.4	10.88	183	12.1	0.56	0.17
5x	2.5RE	0.5	1.4	11.91	249	7.41	0.64	0.29
5x	4RE	0.6	1.6	13.95	370	4.61	0.98	0.46
5x	6RE	0.6	1.6	16.33	488	3.08	1.1	0.69
5x	10RE	0.7	1.6	18.87	739	1.83	1.5	1.15

NHXMH UHP 300/500V

[D]ULTRA HIGH PERFORMANCE CPR B2ca-s1a,d1,a1

Model Product: B77-B78 - 20250311

Cores number	Cross section	Insulation medium thickness	Sheath medium thickness	MAXIMUM external diameter	Approx cable weight	Electric resistance at 20°C	Heat index	Max short circuit current
				mm				
(N°)	(mm²)	(mm)	(mm)	(mm)	(kg/km)	(Ohm/km)	(kWh/m)	(kA)
5x	16RM	0.7	1.8	22.86	-	1.15	2.2	1.84
5x	25RM	0.9	1.8	27.19	-	0.73	2.6	2.88
5x	35RM	0.9	1.8	30.19	2210	0.52	3.1	4.02
Multicores								
7x	1.5RE	0.5	1.4	11.67	250	12.1	0.64	0.17
7x	2.5RE	0.5	1.6	13.60	350	7.41	0.81	0.29

RE=rigid single wire conductor class 1
RM=rigid stranded multiwires conductor class 2

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NHXMH 300/500V White

[D]CPR Dca- s2, d2, a1

Model Product: 381-382 - 20241112

Rigid class 1 and class 2 red copper conductor.
XLPE Crosslinked polyethylene insulation, 2XI1
Not fibrous and not hygroscopic filler
LSZH thermoplastic sheath, HM2.

STANDARDS

DIN VDE 0250-214 DIN VDE 0207 DIN VDE 0472
EN 50575:2014 + EN 50575/A1:2016

Accordingly to the standards BT 2014/35/UE- 2011/65/EU (RoHS 3)

COMMON FEATURES

Halogen-free plastic sheathed cable with enhanced characteristics in case of fire, used for applications where harm to human life and damage to property must be prevented in the event of fire, e.g. industrial installations, communal establishment, hotels, airports, underground stations, railway stations, hospitals, departmental stores, banks, schools, theaters, multi storey buildings, process control centres. Suitable for installation in dry, damp or wet environments, for installation above and below plaster as well as masonry walls and in concrete, nevertheless not suitable for direct use in compacted or tamped concrete. Also suitable for outdoor applications.Supply of electricity and communications in buildings and other civil engineering works with the objective of limiting the generation and spread of fire and smoke. UV resistence

EMPLOYMENT

Minimum bending radius per D cable diameter (in mm):
Normal use = 4D <8 - 5D <12 - 6D >12
Accurate bending close to the terminal = 2D <8 - 3D <12 - 4D >12

Maximum pulling stress: 50 N/mmq

PACKING

100mt. rings in thermoplastic film or drums to agree.

XLPE INSULATED CABLES OF RATED VOLTAGES UP TO 300/500V WITH CROSSLINKED POLYMER AND L.S.0.H.

Nominal voltage U0: 300 V
Nominal voltage U: 500 V
Maximun operating temperature: +70°C
Maximun short circuit temperature: +160°C
Minimum installation and laying temperature: +5°C
Min. operating temperature (without mechanical shocks): -40°C

CORE COLOURS

Single core: NHXMH-O black; NHXMH-J Y/G

Two cores: blue-brown

Three cores: Y/G-blue-brown

Four cores: Y/G-brown-black-grey

Five cores: Y/G-blue-brown-black-grey

SHEATH COLOUR

White

INK MARKING

GENERAL CAVI Dca-s2,d2,a1 <VDE> NHXMH 300/500V n° x sect year

NHXMH 300/500V White

[D]CPR Dca- s2, d2, a1

Model Product: 381-382 - 20241112

Cores number	Cross section	Insulation medium thickness	Sheath medium thickness	Approx external production diameter		Approx cable weight	Electric resistance at 20°C	Heat index	Max short circuit current
				min	max				
(N°)	(mm²)	(mm)	(mm)	(mm)	(mm)	(kg/km)	(Ohm/km)	(kWh/m)	(kA)
Single core									
1x	4RE	0.6	1.4	6.0	10.0	115	4.61	0.42	0.46
1x	6RE	0.6	1.4	6.4	10.5	160	3.08	0.44	0.69
1x	10RE	0.7	1.4	7.4	12.0	230	1.83	0.53	1.15
1x	16RM	0.7	1.4	8.6	13.5	350	1.15	0.64	1.84
Two cores									
2x	1.5RE	0.5	1.4	8.0	9.4	120	12.1	0.36	0.17
2x	2.5RE	0.5	1.4	8.8	10.5	150	7.41	0.42	0.29
2x	4RE	0.6	1.4	10.0	12.0	215	4.61	0.56	0.46
2x	6RE	0.6	1.4	11.5	13.2	295	3.08	1.5	0.69
2x	10RE	0.7	1.6	12.5	16.2	448	1.83	1.5	1.15
2x	16RM	0.7	1.6	18.8	23.2	670	1.15	1.8	1.84
2x	25RM	0.9	1.6	22.5	25.5	1080	0.727	2.6	2.88
2x	35RM	0.9	1.8	24.9	26.6	1400	0.524	3.1	4.02
Three cores									
3x	1.5RE	0.5	1.4	8.4	9.8	133	12.1	0.42	0.17
3x	2.5RE	0.5	1.4	9.3	11.0	176	7.41	0.47	0.26
3x	4RE	0.6	1.4	10.5	12.5	247	4.61	0.61	0.46
3x	6RE	0.6	1.6	12.0	14.0	335	3.08	0.78	0.69
3x	10RE	0.7	1.6	14.5	16.7	496	1.83	1.1	1.15
3x	16RM	0.7	1.6	18.2	21.5	755	1.15	1.8	1.84
3x	25RM	0.9	1.8	22.9	25.3	1200	0.727	2.6	2.88
3x	35RM	0.9	1.8	25.9	28.1	1300	0.524	3.1	4.02
Four cores									
4x	1.5RE	0.5	1.4	9.0	10.5	142	12.1	0.47	0.17
4x	2.5RE	0.5	1.4	10.0	11.5	188	7.41	0.56	0.29
4x	4RE	0.6	1.6	12.0	14.0	279	4.61	0.78	0.46
4x	6RE	0.6	1.6	12.5	15.5	371	1.83	1.3	1.15
4x	10RE	0.7	1.6	15.5	18.0	569	1.83	1.3	1.15
4x	16RM	0.7	1.6	19.0	22.5	849	1.15	1.8	1.84
4x	25RM	0.9	1.8	23.5	28.0	1298	0.73	2.6	2.88
4x	35RM	0.9	1.8	26.5	31.0	1731	0.52	3.1	4.02
Five cores									
5x	1.5RE	0.5	1.4	9.6	11.5	183	12.1	0.56	0.17
5x	2.5RE	0.5	1.4	10.5	12.5	249	7.41	0.64	0.29
5x	4RE	0.6	1.6	13.0	15.5	370	4.61	0.98	0.46

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NHXMH 300/500V White

[D]CPR Dca- s2, d2, a1

Model Product: 381-382 - 20241112

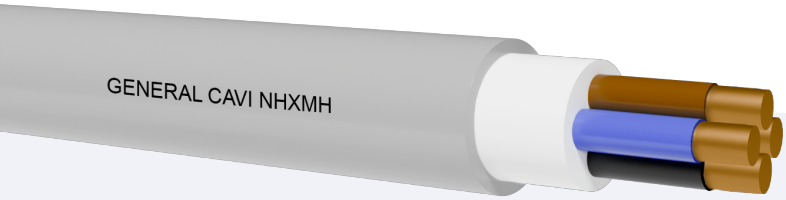
Cores number	Cross section	Insulation medium thickness	Sheath medium thickness	Approx external production diameter		Approx cable weight	Electric resistance at 20°C	Heat index	Max short circuit current
				min	max				
(N°)	(mm²)	(mm)	(mm)	(mm)	(mm)	(kg/km)	(Ohm/km)	(kWh/m)	(kA)
5x	6RE	0.6	1.6	14.5	16.5	488	3.08	1.1	0.69
5x	10RE	0.7	1.6	17.0	19.5	739	1.83	1.5	1.15
5x	16RM	0.7	1.8	21.0	25.0	-	1.15	2.2	1.84
5x	25RM	0.9	1.8	25.5	30.5	-	0.73	2.6	2.88
5x	35RM	0.9	1.8	31.9	34.5	2210	0.52	3.1	4.02
Multicores									
7x	1.5RE	0.5	1.4	10.0	12.0	250	12.1	0.64	0.17
7x	2.5RE	0.5	1.6	12.0	14.0	350	7.41	0.81	0.29

RE=rigid single wire conductor class 1
RM=rigid stranded multiwires conductor class 2

NHXMH 300/500V Grey

[D]CPR Dca- s2, d2, a1

Model Product: 381-382 - 20241118



XLPE INSULATED CABLES OF RATED VOLTAGES UP TO 300/500V WITH CROSSLINKED POLYMER AND L.S.0.H.

Rigid class 1 and class 2 red copper conductor.
XLPE Crosslinked polyethylene insulation, 2XI1
Not fibrous and not hygroscopic filler
LSZH thermoplastic sheath, HM2.

STANDARDS

DIN VDE 0250-214 DIN VDE 0207 DIN VDE 0472
EN 50575:2014 + EN 50575/A1:2016

Accordingly to the standards BT 2014/35/UE- 2011/65/EU (RoHS 3)

Nominal voltage U0: 300 V
Nominal voltage U: 500 V
Maximun operating temperature: +70°C
Maximun short circuit temperature: +160°C
Minimum installation and laying temperature: +5°C
Min. operating temperature (without mechanical shocks): -40°C

CORE COLOURS

Single core: NHXMH-O black; NHXMH-J Y/G

Two cores: blue-brown

Three cores: Y/G-blue-brown

Four cores: Y/G-brown-black-grey

Five cores: Y/G-blue-brown-black-grey

SHEATH COLOUR

Grey

INK MARKING

GENERAL CAVI Dca-s2,d2,a1 <VDE> NHXMH 300/500V n° x sect year

COMMON FEATURES

Halogen-free plastic sheathed cable with enhanced characteristics in case of fire, used for applications where harm to human life and damage to property must be prevented in the event of fire, e.g. industrial installations, communal establishment, hotels, airports, underground stations, railway stations, hospitals, departmental stores, banks, schools, theaters, multi storey buildings, process control centres. Suitable for installation in dry, damp or wet environments, for installation above and below plaster as well as masonry walls and in concrete, nevertheless not suitable for direct use in compacted or tamped concrete. Also suitable for outdoor applications.Supply of electricity and communications in buildings and other civil engineering works with the objective of limiting the generation and spread of fire and smoke. UV resistence

EMPLOYMENT

Minimum bending radius per D cable diameter (in mm):
Normal use = 4D <8 - 5D <12 - 6D >12
Accurate bending close to the terminal = 2D <8 - 3D <12 - 4D >12

Maximum pulling stress: 50 N/mmq

PACKING

100mt. rings in thermoplastic film or drums to agree.

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Catalogo prodotti da costruzione CPR UE305/2011

NHXMH 300/500V Grey

[D]CPR Dca- s2, d2, a1

Model Product: 381-382 - 20241118

Cores number	Cross section	Insulation medium thickness	Sheath medium thickness	Approx external production diameter		Approx cable weight	Electric resistance at 20°C	Heat index	Max short circuit current
				min	max				
(N°)	(mm²)	(mm)	(mm)	(mm)	(mm)	(kg/km)	(Ohm/km)	(kWh/m)	(kA)
Single core									
1x	4RE	0.6	1.4	6.0	10.0	115	4.61	0.42	0.46
1x	6RE	0.6	1.4	6.4	10.5	160	3.08	0.44	0.69
1x	10RE	0.7	1.4	7.4	12.0	230	1.83	0.53	1.15
1x	16RM	0.7	1.4	8.6	13.5	350	1.15	0.64	1.84
Two cores									
2x	1.5RE	0.5	1.4	8.0	9.4	120	12.1	0.36	0.17
2x	2.5RE	0.5	1.4	8.8	10.5	150	7.41	0.42	0.29
2x	4RE	0.6	1.4	10.0	12.0	215	4.61	0.56	0.46
2x	6RE	0.6	1.4	11.5	13.2	295	3.08	1.5	0.69
2x	10RE	0.7	1.6	12.5	16.2	448	1.83	1.5	1.15
2x	16RM	0.7	1.6	18.8	23.2	670	1.15	1.8	1.84
2x	25RM	0.9	1.6	22.5	25.5	1080	0.727	2.6	2.88
2x	35RM	0.9	1.8	24.9	26.6	1400	0.524	3.1	4.02
Three cores									
3x	1.5RE	0.5	1.4	8.4	9.8	133	12.1	0.42	0.17
3x	2.5RE	0.5	1.4	9.3	11.0	176	7.41	0.47	0.26
3x	4RE	0.6	1.4	10.5	12.5	247	4.61	0.61	0.46
3x	6RE	0.6	1.6	12.0	14.0	335	3.08	0.78	0.69
3x	10RE	0.7	1.6	14.5	16.7	496	1.83	1.1	1.15
3x	16RM	0.7	1.6	18.2	21.5	755	1.15	1.8	1.84
3x	25RM	0.9	1.8	22.9	25.3	1200	0.727	2.6	2.88
3x	35RM	0.9	1.8	25.9	28.1	1300	0.524	3.1	4.02
Four cores									
4x	1.5RE	0.5	1.4	9.0	10.5	142	12.1	0.47	0.17
4x	2.5RE	0.5	1.4	10.0	11.5	188	7.41	0.56	0.29
4x	4RE	0.6	1.6	12.0	14.0	279	4.61	0.78	0.46
4x	6RE	0.6	1.6	12.5	15.5	371	1.83	1.3	1.15
4x	10RE	0.7	1.6	15.5	18.0	569	1.83	1.3	1.15
4x	16RM	0.7	1.6	19.0	22.5	849	1.15	1.8	1.84
4x	25RM	0.9	1.8	23.5	28.0	1298	0.73	2.6	2.88
4x	35RM	0.9	1.8	26.5	31.0	1731	0.52	3.1	4.02
Five cores									
5x	1.5RE	0.5	1.4	9.6	11.5	183	12.1	0.56	0.17
5x	2.5RE	0.5	1.4	10.5	12.5	249	7.41	0.64	0.29
5x	4RE	0.6	1.6	13.0	15.5	370	4.61	0.98	0.46

NHXMH 300/500V Grey

[D]CPR Dca- s2, d2, a1

Model Product: 381-382 - 20241118

Cores number	Cross section	Insulation medium thickness	Sheath medium thickness	Approx external production diameter		Approx cable weight	Electric resistance at 20°C	Heat index	Max short circuit current
				min	max				
(N°)	(mm²)	(mm)	(mm)	(mm)	(mm)	(kg/km)	(Ohm/km)	(kWh/m)	(kA)
5x	6RE	0.6	1.6	14.5	16.5	488	3.08	1.1	0.69
5x	10RE	0.7	1.6	17.0	19.5	739	1.83	1.5	1.15
5x	16RM	0.7	1.8	21.0	25.0	-	1.15	2.2	1.84
5x	25RM	0.9	1.8	25.5	30.5	-	0.73	2.6	2.88
5x	35RM	0.9	1.8	31.9	34.5	2210	0.52	3.1	4.02
Multicores									
7x	1.5RE	0.5	1.4	10.0	12.0	250	12.1	0.64	0.17
7x	2.5RE	0.5	1.6	12.0	14.0	350	7.41	0.81	0.29

RE=rigid single wire conductor class 1
RM=rigid stranded multiwires conductor class 2

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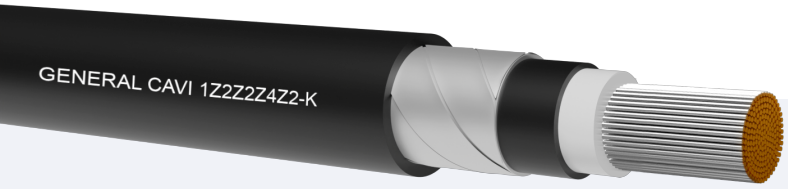
1Z2Z2Z5Z2-K / 1Z2Z2Z4Z2-K

ONLY DC SOLAR ENERGY

Model Product: 495 - 20181004



SINGLE CORE FLEXIBLE CABLES, SUITED FOR PHOTOVOLTAIC AND SOLAR SYSTEMWITH CROSSLINKED POLYMER INSULA TION AND HALOGEN FREE SHEATH. TESTED FOR MORE 25 YEARS LONG LIFE. ANTI-RODENT ARMOUR IN GALVANIZED STEEL WIRES BRAID AND STEEL TAPES TO BE THESE CABLES CAN BE USED UP TO 1800 V TO EARTH

Flexible conductor TINNED copper, class 5.
LS0H special compound isolation reticulated
LSZH sheath.
Armour in galvanized steel wires braid.
Galvanized steel tapes armour.
Halogen Free Sheath cross-linked special compound

STANDARDS

CEI EN 50618 PQA / CEI 20-35 / 20-37P2
EN 60332-1-2 / EN 50267-1-2 / EN 50267-2-2 EN 60216

Accordingly to the standards BT 2014/35/UE-2011/65/EU (RoHS 3)

Test voltage: 4000 V

Maximun voltage Um: 1800 Vcc Anche verso Terra

Maximun operating temperature: +90°C +120°C sul conduttore

Maximun short circuit temperature: +250°C

Minimum installation and laying temperature: -40°C;

Min. operating temperature (without mechanical shocks): -55°C

COMMON FEATURES

We reinforced cables for photovoltaic systems making them especially suitable for installation directly underground and to resist attacks by rodents Cable suitable for the interconnection of the various elements of photovoltaic systems, suitable for fixed installations ouside and inside, unprotected pipes within sight or cashed out, or similar closed system. Ozone-resistant according to EN50396. UV-resistant according to HD605/A1. the Cable is tested for durability according to EN 60216.

EMPLOYMENT

Minimum bending radius per D cable diameter (in mm): 14 D

Maximum pulling stress: 15 N/mm²

PACKING

Drums to agree

CORE COLOURS

Single core: Light-Grey

SHEATH COLOUR

Black Blue,Red

INK MARKING

GENERAL CAVI - 1Z2Z2Z5Z2-K only DC
GENERAL CAVI - 1Z2Z2Z4Z2-K only DC

1Z2Z2Z5Z2-K / 1Z2Z2Z4Z2-K

ONLY DC SOLAR ENERGY

Model Product: 495 - 20181004

1Z2Z2Z5Z2-K <16mmq - 1Z2Z2Z4Z2-K >25mmq

Cores number	Nominal Section	Insulation medium thickness	Maximum external diameter	Approx cable weight	Electric resistance at 20°C
(N°)		(mm)	(mm)	(kg/km)	(Ohm/km)
Single core					
1x	1.5*	0.7	10.33	143	13.7
1x	2.5*	0.7	10.84	158	8.21
1x	4*	0.7	11.65	187	5.09
1x	6*	0.7	12.25	214	3.39
1x	10*	0.7	13.95	291	1.95
1x	16*	0.7	14.90	361	1.24
1x	25	0.9	16.88	479	0.795
1x	35	0.9	17.99	593	0.565
1x	50	1.0	20.05	769	0.393
1x	70	1.1	22.45	1006	0.277
1x	95	1.1	23.90	1239	0.210
1x	120	1.2	26.05	1499	0.164
1x	240	1.7	36,8	2750	0.0817

*1Z2Z2Z5Z2-K

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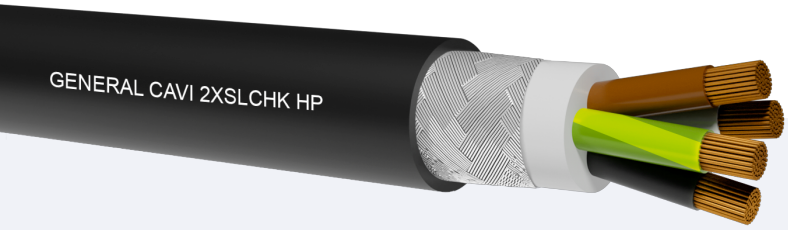
Catalogo prodotti da costruzione CPR UE305/2011

2XSLCHK- HP 0.6/1kV.

[D] CPR Cca-s1b, d2, a1

Model Product: 594 - 20210127



Class 5 flexible copper conductor.
XLPE Crosslinked polyethylene insulation
Not fibrous and not hygroscopic filler
Screens: aluminium foil (covered 100%), tinned copper braiding (covered 80%)
LSZH sheath.

STANDARDS

EN 50575 IEC 60332-1-2 as applicable IEC 60502

Accordingly to the standards BT 2014/35/UE-2011/65/EU (RoHS 3)

COMMON FEATURES

Connecting cable for drive-sytem with frequency converter Technology.Suitable for fix installation and casually moviment in dry.Direct burial application is allowed too.

EMPLOYMENT

Minimum bending radius per D cable diameter (in mm):
Fixed installation = 8D
Flexible Installation = 10D <12 - 15D <20 - 20D >20

Maximum pulling stress: 50 N/mmq

MOTOR POWER SUPPLY CABLE 0,6/1kV DOUBLE SCREENED

Nominal voltage U0: 600 V
Nominal voltage U: 1000 V
Maximun operating temperature: +90°C
Maximun short circuit temperature: +250°C
Minimum installation and laying temperature: 0°C
Min. operating temperature (without mechanical shocks): -40°C

CORE COLOURS

Three cores: gray-brown-black-Y/G divide into 3 cores

Four cores: gray-brown-black-Y/G.

SHEATH COLOUR

Black

INK MARKING

"year-GENERAL CAVI Cca-s1b,d2,a1 2XSLCHK-J-HP n°cores x sect."

NOTE

MAX. OPERATING VOLTAGE: A.C. and 3-phase 700/1200 V
D.C. operation 900/1800 V
EMC Coupling resistance max 250ohm/km

2XSLCHK- HP 0.6/1kV.

[D] CPR Cca-s1b, d2, a1

Model Product: 594 - 20210127

.

Cores number and section	Approx conductor diameter	Insulation medium thickness	Approx external production diameter	Approx cable weight	Electris resistance at 20°C	Current carrying capacities amb. temp. in air or pipe
(N° x mm²)	(mm)	(mm)	(mm)	(kg/km)	(Ohm/km)	(A)
Multicores						
4 G 2.5	2.1	0.7	15.0	300	7.98	32
4 G 4	2.9	0.7	16.4	400	4.95	42
4 G 6	3.2	0.7	18.00	600	3.30	54
4 G 10	4.4	0.7	20.9	800	1.91	75
4 G 16	5.7	0.7	23.6	1150	1.21	100
4 G 25	6.9	0.9	27.4	1600	0.780	127
4 G 35	7.9	0.9	31.7	2200	0.554	158
4 G 50	9.4	1.0	37.5	3000	0.386	192
4 G 70	11.6	1.1	43.0	4100	0.272	246
4 G 95	12.9	1.1	47.0	5200	0.206	298
4 G 120	14.8	1.2	53.4	6600	0.161	346
4 G 150	16.2	1.4	59.5	8200	0.129	399
4 G 185	17.5	1.6	64.9	9900	0.106	456
4 G 240	19.8	1.8	71.0	11715	0.0801	538
4 G 300	21.7	2.0	81.2	14500	0.0641	621

Cores number	section	Approx conductor diameter	Approx ground conductor diameter	Minimum insulation thickness	Minimu ground insulation thickness	Approx external diameter	Approx cable weight	Max conductor resistance 20°C	Max ground cond. resistance 20°C	Current carrying capacities amb. temp. in air
(N°)	(mm²)	(mm)	(mm)	(mm)	(mm)	(mm)	(kg/km)	(Ohm/km)	(Ohm/km)	(A)
Multicores										
3x2.5 + 3G0.5		2.1	0.85	0.7	0.6	14.4	300	7.98	39.0	32
3x4 + 3G0.75		2.9	1.2	0.7	0.6	15.5	400	4.95	26.0	42
3x6 + 3G1		3.2	1.3	0.7	0.7	16.5	450	3.30	19.5	54
3x10 + 3G1.5		4.4	1.8	0.7	0.7	20.4	750	1.91	13.3	75
3x16 + 3G2.5		5.7	2.1	0.7	0.7	22.7	1000	1.21	7.98	100
3x25 + 3G4		6.9	2.9	0.9	0.7	25.3	1400	0.78	4.95	127
3x35 + 3G6		7.9	3.2	0.9	0.7	30.4	1850	0.554	3.30	158
3x50 + 3G10		9.4	4.4	1.0	0.7	34.7	2550	0.386	1.91	192
3x70 + 3G10		11.6	4.4	1.1	0.7	40.5	3210	0.272	1.91	246
3x95 + 3G16		12.9	5.7	1.1	0.7	44.0	4110	0.206	1.21	298
3x120 + 3G16		14.8	5.7	1.2	0.7	49.8	5000	0.161	1.21	346
3x150 + 3G25		16.2	6.9	1.4	0.9	55.5	6500	0.129	0.78	399
3x185 + 3G35		17.5	7.9	1.6	0.9	60.4	8000	0.106	0.554	456
3x240 + 3G50		19.8	9.4	1.7	1.0	65.3	10200	0.0801	0.386	538
3x300 + 3G70		21.5	11.6	1.8	1.0	75.9	11900	0.0641	0.272	621

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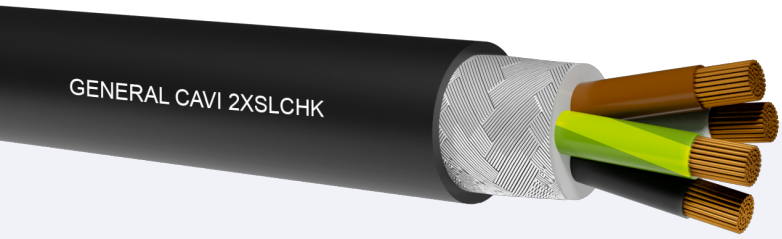
2XSLCHK 0.6/1kV.

[D] CPR Eca

Model Product: 584 - 20241115



Class 5 flexible copper conductor.
XLPE Crosslinked polyethylene insulation
Screens: aluminium foil (covered 100%), tinned copper braiding (covered 80%)
LSZH sheath.

STANDARDS

EN 50575 IEC 60332-1-2 as applicable IEC 60502

Accordingly to the standards BT 2014/35/UE-2011/65/EU (RoHS 3)

COMMON FEATURES

Connecting cable for drive-sytem with frequency converter Technology.Suitable for fix installation and casually moviment in dry.Direct burial application is allowed too.

EMPLOYMENT

Minimum bending radius per D cable diameter (in mm):
Fixed installation = 8D
Flexible Installation = 10D <12 - 15D <20 - 20D >20

Maximum pulling stress: 50 N/mmq

MOTOR POWER SUPPLY CABLE 0,6/1kV DOUBLE SCREENED

Nominal voltage U0: 600 V
Nominal voltage U: 1000 V
Maximun operating temperature: +90°C
Maximun short circuit temperature: +250°C
Minimum installation and laying temperature: 0°C
Min. operating temperature (without mechanical shocks): -40°C

CORE COLOURS

Three cores: gray-brown-black-Y/G divide into 3 cores

Four cores: gray-brown-black-Y/G.

SHEATH COLOUR

Black

INK MARKING

"year-GENERAL CAVI Eca, 2XSLCHK-J n°cores x sect."

NOTE

MAX. OPERATING VOLTAGE: A.C. and 3-phase 700/1200 V
D.C. operation 900/1800 V
EMC Coupling resistance max 250ohm/km

2XSLCHK 0.6/1kV.

[D] CPR Eca

Model Product: 584 - 20241115

.

Cores number and section	Approx conductor diameter	Insulation medium thickness	Approx external production diameter	Approx cable weight	Electris resistance at 20°C	Current carrying capacities amb. temp. in air or pipe
(N° x mm²)	(mm)	(mm)	(mm)	(kg/km)	(Ohm/km)	(A)
Multicores						
4 G 2.5	2.1	0.7	12.0	220	7.98	32
4 G 4	2.9	0.7	13.0	300	4.95	42
4 G 6	3.2	0.7	14.7	350	3.30	54
4 G 10	4.4	0.7	19.0	600	1.91	75
4 G 16	5.7	0.7	22.0	850	1.21	100
4 G 25	6.9	0.9	26.5	1300	0.780	127
4 G 35	7.9	0.9	30.4	1800	0.554	158
4 G 50	9.4	1.0	36.5	2450	0.386	192
4 G 70	11.6	1.1	43.5	3350	0.272	246
4 G 95	12.9	1.1	41.8	4230	0.206	298
4 G 120	14.8	1.2	51.0	5300	0.161	346
4 G 150	16.2	1.4	56.0	6500	0.129	399
4 G 185	17.5	1.6	61.7	8000	0.106	456
4 G 240	19.8	1.8	67.9	10000	0.0801	538
4 G 300	21.7	2.0	75.9	10500	0.0641	621

Cores number	section	Approx conductor diameter	Approx ground conductor diameter	Minimum insulation thickness	Minimu ground insulation thickness	Approx external diameter	Approx cable weight	Max conductor resistance 20°C	Max ground cond. resistance 20°C	Current carrying capacities amb. temp. in air
(N°)	(mm²)	(mm)	(mm)	(mm)	(mm)	(mm)	(kg/km)	(Ohm/km)	(Ohm/km)	(A)
Multicores										
3x2.5 + 3G0.5		2.1	0.85	0.7	0.6	11.0	200	7.98	39.0	32
3x4 + 3G0.75		2.9	1.2	0.7	0.6	12.0	250	4.95	26.0	42
3x6 + 3G1		3.2	1.3	0.7	0.7	13.0	300	3.30	19.5	54
3x10 + 3G1.5		4.4	1.8	0.7	0.7	17.9	520	1.91	13.3	75
3x16 + 3G2.5		5.7	2.1	0.7	0.7	19.6	780	1.21	7.98	100
3x25 + 3G4		6.9	2.9	0.9	0.7	23.8	1100	0.78	4.95	127
3x35 + 3G6		7.9	3.2	0.9	0.7	27.1	1550	0.554	3.30	158
3x50 + 3G10		9.4	4.4	1.0	0.7	33.1	2250	0.386	1.91	192
3x70 + 3G10		11.6	4.4	1.1	0.7	37.7	3000	0.272	1.91	246
3x95 + 3G16		12.9	5.7	1.1	0.7	40.5	3700	0.206	1.21	298
3x120 + 3G16		14.8	5.7	1.2	0.7	46.4	4500	0.161	1.21	346
3x150 + 3G25		16.2	6.9	1.4	0.9	50.5	5600	0.129	0.78	399
3x185 + 3G35		17.5	7.9	1.6	0.9	55.2	7000	0.106	0.554	456
3x240 + 3G50		19.8	9.4	1.7	1.0	60.7	9100	0.0801	0.386	538
3x300 + 3G70		21.5	11.6	1.8	1.0	70.4	11200	0.0641	0.272	621

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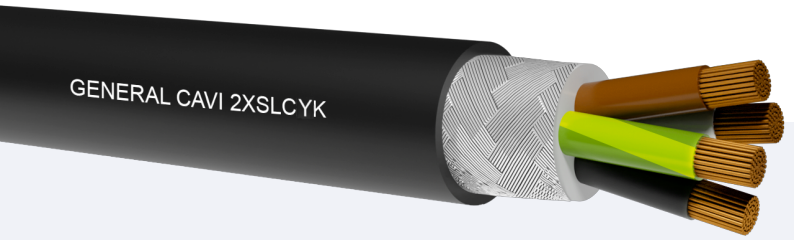
2XSLCYK / 2YSLCYK 0.6/1kV

[D] CPR Eca

Model Product: 597-598 - 20241112



Class 5 flexible copper conductor.
PE / XLPE Insulation
Screens: aluminium foil (covered 100%), tinned copper braiding (covered 80%)
Special Outer sheath PVC.

STANDARDS

EN 50575 IEC 60332-1-2 as applicable IEC 60502DIN VDE 0276-603, IEC 60228 DIN VDE 0295 DIN-VDE 0482-332-1-2, DIN EN 60332-1-2

Accordingly to the standards BT 2014/35/UE-2011/65/EU (RoHS 3)

COMMON FEATURES

Connecting cable for drive-sytem with frequency converter Technology.Suitable for fix installation and casually moviment in dry, damp and wet rooms.

EMPLOYMENT

Minimum bending radius per D cable diameter (in mm):
Fixed installation = 8D
Flexible Installation = 10D <12 - 15D <20 - 20D >20

Maximum pulling stress: 50 N/mmq

MOTOR POWER SUPPLY CABLE 0,6/1kV DOUBLE SCREENED

Nominal voltage U0: 600 V
Nominal voltage U: 1000 V
Maximun operating temperature: +90°C
Maximun short circuit temperature: +250°C
Minimum installation and laying temperature: 0°C
Min. operating temperature (without mechanical shocks): -40°C

CORE COLOURS

Three cores: gray-brown-black-Y/G divide into 3 cores

Four cores: gray-brown-black-Y/G.

SHEATH COLOUR

Black (2YSLCYK) Black (2XSLCYK)

INK MARKING

"year-GENERAL CAVI Eca 2YSLCY-J-n°cores x sect." (black sheath)

NOTE

MAX. OPERATING VOLTAGE: A.C. and 3-phase 700/1200 V
D.C. operation 900/1800 V
EMC Coupling resistance max 250ohm/km
Good resistance to UV (Black outer jacket version)

2XSLCYK / 2YSLCYK 0.6/1kV

[D] CPR Eca

Model Product: 597-598 - 20241112

.

Cores number and section	Approx conductor diameter	Insulation medium thickness	Approx external production diameter	Approx cable weight	Electris resistance at 20°C	Current carrying capacities amb. temp. in air or pipe
(N° x mm²)	(mm)	(mm)	(mm)	(kg/km)	(Ohm/km)	(A)
Multicores						
4 G 1.5	1.8	0.7	12.0	217	13.3	23
4 G 2.5	2.1	0.7	13.0	270	7.98	32
4 G 4	2.9	0.7	15.0	362	4.95	42
4 G 6	3.2	0.7	16.0	447	3.30	54
4 G 10	4.4	0.7	20.0	718	1.91	75
4 G 16	5.7	0.7	23.0	1005	1.21	100
4 G 25	6.9	0.9	26.0	1410	0.780	127
4 G 35	7.9	0.9	29.0	1950	0.554	158
4 G 50	9.4	1.0	34.0	2700	0.386	192
4 G 70	11.6	1.1	39.0	3600	0.272	246
4 G 95	12.9	1.1	42.0	4500	0.206	298
4 G 120	14.8	1.2	48.0	5600	0.161	346
4 G 150	16.2	1.4	53.0	6895	0.129	399
4 G 185	17.5	1.6	58.0	8270	0.106	456
4 G 240	19.8	1.8	65.0	10715	0.0801	538

Cores number	section	Approx conductor diameter	Approx ground conductor diameter	Minimum insulation thickness	Minimu ground insulation thickness	Approx external diameter	Approx cable weight	Max conductor resistance 20°C	Max ground cond. resistance 20°C	Current carrying capacities amb. temp. in air
(N°)	(mm²)	(mm)	(mm)	(mm)	(mm)	(mm)	(kg/km)	(Ohm/km)	(Ohm/km)	(A)
Multicores										
3x1.5 + 3G0.25		1.8	-	0.7	0.6	12.0	215	13.3	-	23
3x2.5 + 3G0.5		2.1	0.85	0.7	0.6	13.0	265	7.98	39.0	32
3x4 + 3G0.75		2.9	1.2	0.7	0.6	15.0	350	4.95	26.0	42
3x6 + 3G1		3.2	1.3	0.7	0.7	16.0	430	3.30	19.5	54
3x10 + 3G1.5		4.4	1.8	0.7	0.7	18.0	695	1.91	13.3	75
3x16 + 3G2.5		5.7	2.1	0.7	0.7	20.0	925	1.21	7.98	100
3x25 + 3G4		6.9	2.9	0.9	0.7	25.0	1350	0.78	4.95	127
3x35 + 3G6		7.9	3.2	0.9	0.7	27.0	1760	0.554	3.30	158
3x50 + 3G10		9.4	4.4	1.0	0.7	33.0	2550	0.386	1.91	192
3x70 + 3G10		11.6	4.4	1.1	0.7	37.0	3210	0.272	1.91	246
3x95 + 3G16		12.9	5.7	1.1	0.7	42.0	4110	0.206	1.21	298
3x120 + 3G16		14.8	5.7	1.2	0.7	45.0	4925	0.161	1.21	346
3x150 + 3G25		16.2	6.9	1.4	0.9	48.0	6200	0.129	0.78	399
3x185 + 3G35		17.5	7.9	1.6	0.9	53.0	7500	0.106	0.554	456
3x240 + 3G50		19.8	9.4	1.7	1.0	61.0	9610	0.0801	0.386	538

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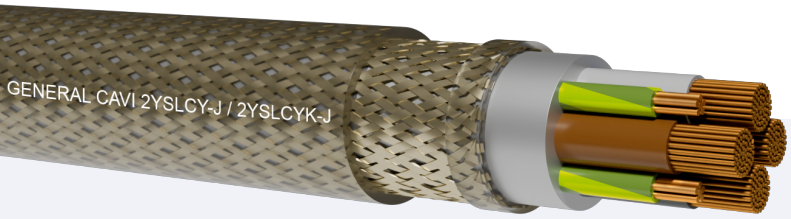
Catalogo prodotti da costruzione CPR UE305/2011

2XSLCY-J / 2YSLCY-J 0.6/1kV

[D] CPR Eca

Model Product: 597-598 - 20241112



Class 5 flexible copper conductor.
PE / XLPE Insulation
Screens: aluminium foil (covered 100%), tinned copper braiding (covered 80%)
Special Outer sheath PVC.

STANDARDS

EN 50575 IEC 60332-1-2 as applicable IEC 60502DIN VDE 0276-603, IEC 60228 DIN VDE 0295 DIN-VDE 0482-332-1-2, DIN EN 60332-1-2

Accordingly to the standards BT 2014/35/UE-2011/65/EU (RoHS 3)

COMMON FEATURES

Connecting cable for drive-sytem with frequency converter Technology.Suitable for fix installation and casually moviment in dry, damp and wet rooms.Not suitable for outdoors

EMPLOYMENT

Minimum bending radius per D cable diameter (in mm):
Fixed installation = 8D
Flexible Installation = 10D <12 - 15D <20 - 20D >20

Maximum pulling stress: 50 N/mmq

MOTOR POWER CABLE 0.6/1kV DOUBLE SHIELDED TRANSPARENT SHEATH

Nominal voltage U0: 600 V
Nominal voltage U: 1000 V
Maximun operating temperature: +90°C
Maximun short circuit temperature: +250°C
Minimum installation and laying temperature: 0°C
Min. operating temperature (without mechanical shocks): -40°C

CORE COLOURS

Three cores: gray-brown-black-Y/G divide into 3 cores

Four cores: gray-brown-black-Y/G.

SHEATH COLOUR

TRANSPARENT

INK MARKING

"year-GENERAL CAVI Eca 2YSLCY-J-n°cores x sect."

NOTE

MAX. OPERATING VOLTAGE: A.C. and 3-phase 700/1200 V
D.C. operation 900/1800 V
EMC Coupling resistance max 250ohm/km

2XSLCY-J / 2YSLCY-J 0.6/1kV

[D] CPR Eca

Model Product: 597-598 - 20241112

.

Cores number and section	Approx conductor diameter	Insulation medium thickness	Approx external production diameter	Approx cable weight	Electris resistance at 20°C	Current carrying capacities amb. temp. in air or pipe
(N° x mm²)	(mm)	(mm)	(mm)	(kg/km)	(Ohm/km)	(A)
Multicores						
4 G 1.5	1.8	0.7	12.0	217	13.3	23
4 G 2.5	2.1	0.7	13.0	270	7.98	32
4 G 4	2.9	0.7	15.0	362	4.95	42
4 G 6	3.2	0.7	16.0	447	3.30	54
4 G 10	4.4	0.7	20.0	718	1.91	75
4 G 16	5.7	0.7	23.0	1005	1.21	100
4 G 25	6.9	0.9	26.0	1410	0.780	127
4 G 35	7.9	0.9	29.0	1950	0.554	158
4 G 50	9.4	1.0	34.0	2700	0.386	192
4 G 70	11.6	1.1	39.0	3600	0.272	246
4 G 95	12.9	1.1	42.0	4500	0.206	298
4 G 120	14.8	1.2	48.0	5600	0.161	346
4 G 150	16.2	1.4	53.0	6895	0.129	399
4 G 185	17.5	1.6	58.0	8270	0.106	456
4 G 240	19.8	1.8	65.0	10715	0.0801	538

Cores number	section	Approx conductor diameter	Approx ground conductor diameter	Minimum insulation thickness	Minimu ground insulation thickness	Approx external diameter	Approx cable weight	Max conductor resistance 20°C	Max ground cond. resistance 20°C	Current carrying capacities amb. temp. in air
(N°)	(mm²)	(mm)	(mm)	(mm)	(mm)	(mm)	(kg/km)	(Ohm/km)	(Ohm/km)	(A)
Multicores										
3x1.5 + 3G0.25		1.8	-	0.7	0.6	12.0	215	13.3	-	23
3x2.5 + 3G0.5		2.1	0.85	0.7	0.6	13.0	265	7.98	39.0	32
3x4 + 3G0.75		2.9	1.2	0.7	0.6	15.0	350	4.95	26.0	42
3x6 + 3G1		3.2	1.3	0.7	0.7	16.0	430	3.30	19.5	54
3x10 + 3G1.5		4.4	1.8	0.7	0.7	18.0	695	1.91	13.3	75
3x16 + 3G2.5		5.7	2.1	0.7	0.7	20.0	925	1.21	7.98	100
3x25 + 3G4		6.9	2.9	0.9	0.7	25.0	1350	0.78	4.95	127
3x35 + 3G6		7.9	3.2	0.9	0.7	27.0	1760	0.554	3.30	158
3x50 + 3G10		9.4	4.4	1.0	0.7	33.0	2550	0.386	1.91	192
3x70 + 3G10		11.6	4.4	1.1	0.7	37.0	3210	0.272	1.91	246
3x95 + 3G16		12.9	5.7	1.1	0.7	42.0	4110	0.206	1.21	298
3x120 + 3G16		14.8	5.7	1.2	0.7	45.0	4925	0.161	1.21	346
3x150 + 3G25		16.2	6.9	1.4	0.9	48.0	6200	0.129	0.78	399
3x185 + 3G35		17.5	7.9	1.6	0.9	53.0	7500	0.106	0.554	456
3x240 + 3G50		19.8	9.4	1.7	1.0	61.0	9610	0.0801	0.386	538

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Catalogo prodotti da costruzione CPR UE305/2011

YSLY-OZ/JZ 600/1000V

[D]

Model Product: 225-213 - 20171220

CE

Class 5 flexible copper conductor.
PVC Insulation in TI2 quality.
PVC sheath in TM2 quality.

STANDARDS

DIN EN 50525-2-51 (vde 0285-525-2-51):2012-01; EN 50525-2-51:2012-01

Accordingly to the standards BT 2014/35/UE- 2011/65/EU (RoHS 3)

COMMON FEATURES

Multiconductor oil resistant cables suitable for connection to fixed or mobile devices, for signalling and control system. For indoor enviroment (dry or wet) , and for outdoor enviroment (UV resistant). The selected raw materials and small outer dimensions, guarantee a good flexibility, and reduced weight, as well as a safe, economic and fast installation.A system operating voltage can always overflow the 10% of its standard voltage.

EMPLOYMENT

Minimum bending radius per D cable diameter (in mm):
15 x external diam. (mobile installation)
6 x external diam. (fixed installation)

Maximum pulling stress: 50 N/mm2 (during installation)
15 N/mm2 (static stress)

PACKING

Drums to agree

FLEXIBLE, NUMBER CODED, CABLES FOR MEASURING AND CONTROL INSTALLATION.

Nominal voltage U0: 600 V
Nominal voltage U: 1000 V
Test voltage: 4000 V
Maximun operating temperature: +70°C
Minimum installation and laying temperature: -5°C
Min. operating temperature (without mechanical shocks): -40°C

CORE COLOURS

Multicores: black core with white numbering(OZ) + GreenYellow core (JZ).

SHEATH COLOUR

Black

INK MARKING

GENERAL CAVI YSLY-JZ 600/1000V [n° cond] x [sec.] batch number Batch Data

NOTE

TEMPERATURE RANGE flexing:-5 +70°C
TEMPERATURE fixed installation without mechanical shocks:-40 +80°C
Colour coded cores on request (OB/JB)HD 308
Oil resistant EN 50290-2-22

YSLY-OZ/JZ 600/1000V

[D]

Model Product: 225-213 - 20171220

Tabella Dimensionali/Dimensional table

	Cond.xSec	Outer diameter	Weight		Cond.xSec	Outer diameter	Weight
	(N°xmmq)	(mm)	(kg/km)		(N°xmmq)	(mm)	(kg/km)
Multicores							
-	3x1	8.6	120	-	5x1.5	11.55	195
-	3x1,5	9.5	140	-	5x2.5	12.25	245
-	3x2.5	10.35	170	-	5x4	15.35	379
-	3x4	12.85	255	-	7x1	11.5	216
-	4x1	9.5	148	-	7x1.5	12.25	239
-	4x1.5	10.65	165	-	7x2.5	13.25	315
-	4x2.5	11.25	210	-	7x4	17.15	515
-	4x4	14	315	-	12x1.5	16.35	390
-	-	-	-	-	12x2.5	17.65	515
-	-	-	-	-	12x4	25.25	865

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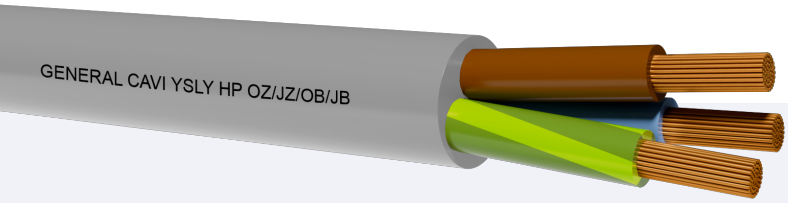
Catalogo prodotti da costruzione CPR UE305/2011

YSLY HP -OZ/JZ/OB/JB 300/500V

[D] [SR] CPR Cca-s3,d1,a3

Model Product: P66-P67-P68-P69 - 20201215



Class 5 flexible copper conductor.
PVC Insulation in TI2 quality.
PVC sheath in TM2 quality.

STANDARDS

DIN EN 50525-2-51 (vde 0285-525-2-51):2012-01; EN 50525-2-51:2012-01 VDE Reg. Nr. 8390
EN 50575:2014 + EN 50575/A1:2016

Accordingly to the standards BT 2014/35/UE- 2011/65/EU RoHS 2

FLEXIBLE, NUMBER CODED, CABLES FOR MEASURING AND CONTROL INSTALLATION.
Colour coded cores (OB/JB)HD 308

Nominal voltage U0: 300 V
Nominal voltage U: 500 V
Test voltage: 4000 V
Maximun operating temperature: +70°C
Minimum installation and laying temperature: -5°C
Min. operating temperature (without mechanical shocks): -40°C

COMMON FEATURES

For electrical power system in constructions alnd other civil engineering bulginngs,in order to limit fire and smoke production and spread,in accordance with the CPR. Multiconductor oil resistant cables suitable for connection to fixed or mobile devices, for signalling and control system.Suitable for indoor enviroment (dry or wet) , and for outdoor enviroment (only for a temporary and protected use). The selected raw materials and small outer dimensions, guarantee a good flexibility, and reduced weight, as well as a safe, economic and fast installation.A system operating voltage can always overflow the 10% of its standard voltage..Supply of electricity and communications in buildings and other civil engineering works with the objective of limiting the generation and spread of fire and smoke.

EMPLOYMENT

Minimum bending radius per D cable diameter (in mm):
15 x external diam. (mobile installation)
6 x external diam. (fixed installation)

Maximum pulling stress: 50 N/mm2 (during installation)
15 N/mm2 (static stress)

PACKING

Drums to agree

CORE COLOURS

Multicores: black core with white numbering(OZ) + GreenYellow core (JZ).

SHEATH COLOUR

Grey RAL 7001

INK MARKING

GENERAL CAVI Cca-s3,d1,a3 YSLY HP-JZ 300/500V [n° cond] x [sec.] batch number Batch Data

NOTE

TEMPERATURE RANGE flexing:-5 +70°C
TEMPERATURE fixed installation without mechanical shocks:-40 +80°C
Colour coded cores on request (OB/JB)HD 308
Oil resistant EN 50290-2-22

YSLY HP -OZ/JZ/OB/JB 300/500V

[D] [SR] CPR Cca-s3,d1,a3

Model Product: P66-P67-P68-P69 - 20201215

Tabella / table

	Cond.xSec	Outer diameter	Weight		Cond.xSec	Outer diameter	Weight
	(N°xmmq)	(mm)	(kg/km)		(N°xmmq)	(mm)	(kg/km)
Multicores							
-	2x0.50	4.8	32	-	2x1.5	6	58
-	3x0.50	5.1	39	-	3x1.5	6.4	72
-	4x0.50	5.5	47	-	4x1.5	7.2	93
-	5x0.50	6	55	-	5x1.5	7.8	111
-	6x0.50	6.5	64	-	6x1.5	8.5	129
-	7x0.50	6.5	71	-	7x1.5	8.5	144
-	8x0.50	7.5	83	-	8x1.5	9.7	169
-	10x0.50	8.4	101	-	10x1.5	11	205
-	12x0.50	8.7	115	-	12x1.5	11.6	243
-	14x0.50	9.1	131	-	14x1.5	12.1	278
-	16x0.50	10.3	151	-	16x1.5	12.8	312
-	18x0.50	10.3	166	-	18x1.5	13.5	346
-	21x0.50	11.7	197	-	21x1.5	15.1	400
-	25x0.50	12.5	228	-	25x1.5	16.2	467
-	27x0.50	12.5	242	-	2x2.5	7.1	85
-	30x0.50	12.9	264	-	3x2.5	7.5	108
-	34x0.50	13.9	296	-	4x2.5	8.3	135
-	37x0.50	13.9	316	-	5x2.5	9	162
-	42x0.50	15	355	-	6x2.5	10.1	195
-	2x0.75	5.2	40	-	7x2.5	10.1	219
-	3x0.75	5.5	48	-	8x2.5	11.3	250
-	4x0.75	6	59	-	10x2.5	13	310
-	5x0.75	6.5	70	-	12x2.5	13.4	361
-	6x0.75	7.3	85	-	14x2.5	14.1	414
-	7x0.75	7.3	94	-	16x2.5	14.9	467
-	8x0.75	8.2	106	-	18x2.5	15.8	519
-	10x0.75	9.4	133	-	21x2.5	17.7	602
-	12x0.75	9.7	153	-	25x2.5	18.9	705
-	14x0.75	10.2	174	-	2x4	8.6	127
-	16x0.75	10.7	195	-	3x4	9.4	167
-	18x0.75	11.5	221	-	4x4	10.3	209
-	21x0.75	12.4	256	-	5x4	11.3	252
-	25x0.75	13.7	297	-	2x6	10	179
-	27x0.75	13.7	315	-	3x6	10.7	232
-	30x0.75	14.2	345	-	4x6	11.9	298

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YSLY HP -OZ/JZ/OB/JB 300/500V

[D] [SR] CPR Cca-s3,d1,a3

Model Product: P66-P67-P68-P69 - 20201215

	Cond.xSec (N°xmmq)	Outer diameter (mm)	Weight (kg/km)		Cond.xSec (N°xmmq)	Outer diameter (mm)	Weight (kg/km)
-	34x0.75	15.3	388	-	5x6	13.1	360
-	37x0.75	15.3	415	-	2x10	13.4	314
-	42x0.75	16.6	467	-	3x10	14.3	407
-	2x1	5.6	47	-	4x10	15.8	514
-	3x1	5.9	58	-	5x10	17.4	623
-	4x1	6.5	71	-	2x16	15.8	416
-	5x1	7.3	88	-	3x16	16.9	605
-	6x1	7.9	102	-	4x16	18.7	769
-	7x1	7.9	113	-	5x16	20.6	950
-	8x1	8.8	128	-	2x25	18.8	673
-	10x1	10.2	160	-	3x25	20.1	910
-	12x1	10.5	185	-	4x25	22.5	1165
-	14x1	11.1	211	-	5x25	24.9	1417
-	16x1	11.9	242	-	2x35	20.8	916
-	18x1	12.5	268	-	3x35	22.5	1217
-	21x1	14	310	-	4x35	24.9	1549
-	25x1	14.9	361	-	5x35	27.6	1889
-	27x1	14.9	384	-	2x50	24.4	1270
-	30x1	15.5	421	-	3x50	26.2	1675
-	34x1	16.7	473	-	4x50	29.3	2151
-	37x1	16.7	507	-	5x50	33	2671
-	42x1	18.1	571	-			

YSLY HP -OZ/JZ/OB/JB 300/500V

[D] [SR] CPR Cca-s3,d1,a3

Model Product: P66-P67-P68-P69 - 20201215

Tabella / table

-	Nominal Section	Toegelaten stroomsterkste voor een verbinding in open lucht bij 30°C (A)							Maximale kernweerstand (klasse 5) bij 20°C (IEC 60228)
		2	3-4-5	7	12	18	27	36	
	(mmq)	(A)	(A)	(A)	(A)	(A)	(A)	(A)	(Ohm/km)
Multicores									
-	0.50	10	9	6.5	5.5	4.5	4	3.5	39
-	0.75	13.5	12	9	7	6	5.5	5	26
-	1	15	13.5	10.5	8	7	6.5	5.5	19.5
-	1.5	19.5	17.5	13	10.5	9.5	8	7	13.3
-	2.5	26	24	17.5	14.5	12.5	11	10	7.98
-	4	35	32	-	-	-	-	-	4.95
-	6	46	41	-	-	-	-	-	3.3
-	10	63	57	-	-	-	-	-	1.91
-	16	85	76	-	-	-	-	-	1.21
-	25	112	101	-	-	-	-	-	0.78
-	35	138	125	-	-	-	-	-	0.554
-	50	168	151	-	-	-	-	-	0.386

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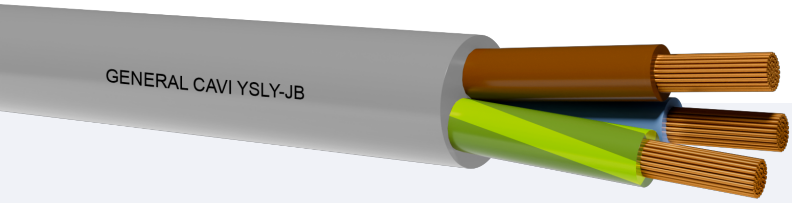
YSLY-OZ/JZ 300/500V

[D] [SR] YSLY-OB/JB Eca

Model Product: 225-213-209-210 - 20211012



Class 5 flexible copper conductor.
PVC Insulation in TI2 quality.
PVC sheath in TM2 quality.

STANDARDS

DIN EN 50525-2-51 (vde 0285-525-2-51):2012-01; EN 50525-2-51:2012-01 VDE Reg. Nr. 8390
EN 50575:2014 + EN 50575/A1:2016

Accordingly to the standards BT 2014/35/UE- 2011/65/EU RoHS 2

FLEXIBLE, NUMBER CODED, CABLES FOR MEASURING AND CONTROL INSTALLATION.
Colour coded cores (OB/JB)HD 308

Nominal voltage U0: 300 V
Nominal voltage U: 500 V
Test voltage: 4000 V
Maximun operating temperature: +70°C
Minimum installation and laying temperature: -5°C
Min. operating temperature (without mechanical shocks): -40°C +80°C

COMMON FEATURES

Multiconductor oil resistant cables suitable for connection to fixed or mobile devices, for signalling and control system.Suitable for indoor enviroment (dry or wet) , and for outdoor enviroment (only for a temporary and protected use). The selected raw materials and small outer dimensions, guarantee a good flexibility, and reduced weight, as well as a safe, economic and fast installation.A system operating voltage can always overflow the 10% of its standard voltage..Supply of electricity and communications in buildings and other civil engineering works with the objective of limiting the generation and spread of fire and smoke.

EMPLOYMENT

Minimum bending radius per D cable diameter (in mm):
15 x external diam. (mobile installation)
6 x external diam. (fixed installation)

Maximum pulling stress: 50 N/mm2 (during installation)
15 N/mm2 (static stress)

PACKING

Drums to agree

CORE COLOURS

Multicores: black core with white numbering(OZ) + GreenYellow core (JZ).

SHEATH COLOUR

Grey RAL 7001

INK MARKING

GENERAL CAVI Eca VDE-Reg-Nr 8390 YSLY-JZ 300/500V [n° cond] x [sec.] batch number Batch Data

NOTE

TEMPERATURE RANGE flexing:-5 +70°C
TEMPERATURE fixed installation without mechanical shocks:-40 +80°C
Colour coded cores on request (OB/JB)HD 308
Oil resistant EN 50290-2-22

YSLY-OZ/JZ 300/500V

[D] [SR] YSLY-OB/JB Eca

Model Product: 225-213-209-210 - 20211012

Tabella / table

	Cond.xSec (N°xmmq)	Outer diameter (mm)	Weight (kg/km)		Cond.xSec (N°xmmq)	Outer diameter (mm)	Weight (kg/km)
Multicores							
-	2x0.50	4.8	32	-	2x1.5	6	58
-	3x0.50	5.1	39	-	3x1.5	6.4	72
-	4x0.50	5.5	47	-	4x1.5	7.2	93
-	5x0.50	6	55	-	5x1.5	7.8	111
-	6x0.50	6.5	64	-	6x1.5	8.5	129
-	7x0.50	6.5	71	-	7x1.5	8.5	144
-	8x0.50	7.5	83	-	8x1.5	9.7	169
-	10x0.50	8.4	101	-	10x1.5	11	205
-	12x0.50	8.7	115	-	12x1.5	11.6	243
-	14x0.50	9.1	131	-	14x1.5	12.1	278
-	16x0.50	10.3	151	-	16x1.5	12.8	312
-	18x0.50	10.3	166	-	18x1.5	13.5	346
-	21x0.50	11.7	197	-	21x1.5	15.1	400
-	25x0.50	12.5	228	-	25x1.5	16.2	467
-	27x0.50	12.5	242	-	2x2.5	7.1	85
-	30x0.50	12.9	264	-	3x2.5	7.5	108
-	34x0.50	13.9	296	-	4x2.5	8.3	135
-	37x0.50	13.9	316	-	5x2.5	9	162
-	42x0.50	15	355	-	6x2.5	10.1	195
-	2x0.75	5.2	40	-	7x2.5	10.1	219
-	3x0.75	5.5	48	-	8x2.5	11.3	250
-	4x0.75	6	59	-	10x2.5	13	310
-	5x0.75	6.5	70	-	12x2.5	13.4	361
-	6x0.75	7.3	85	-	14x2.5	14.1	414
-	7x0.75	7.3	94	-	16x2.5	14.9	467
-	8x0.75	8.2	106	-	18x2.5	15.8	519
-	10x0.75	9.4	133	-	21x2.5	17.7	602
-	12x0.75	9.7	153	-	25x2.5	18.9	705
-	14x0.75	10.2	174	-	2x4	8.6	127
-	16x0.75	10.7	195	-	3x4	9.4	167
-	18x0.75	11.5	221	-	4x4	10.3	209
-	21x0.75	12.4	256	-	5x4	11.3	252
-	25x0.75	13.7	297	-	2x6	10	179
-	27x0.75	13.7	315	-	3x6	10.7	232
-	30x0.75	14.2	345	-	4x6	11.9	298

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YSLY-OZ/JZ 300/500V

[D] [SR] YSLY-OB/JB Eca

Model Product: 225-213-209-210 - 20211012

	Cond.xSec (N°xmmq)	Outer diameter (mm)	Weight (kg/km)		Cond.xSec (N°xmmq)	Outer diameter (mm)	Weight (kg/km)
-	34x0.75	15.3	388	-	5x6	13.1	360
-	37x0.75	15.3	415	-	2x10	13.4	314
-	42x0.75	16.6	467	-	3x10	14.3	407
-	2x1	5.6	47	-	4x10	15.8	514
-	3x1	5.9	58	-	5x10	17.4	623
-	4x1	6.5	71	-	2x16	15.8	416
-	5x1	7.3	88	-	3x16	16.9	605
-	6x1	7.9	102	-	4x16	18.7	769
-	7x1	7.9	113	-	5x16	20.6	950
-	8x1	8.8	128	-	2x25	18.8	673
-	10x1	10.2	160	-	3x25	20.1	910
-	12x1	10.5	185	-	4x25	22.5	1165
-	14x1	11.1	211	-	5x25	24.9	1417
-	16x1	11.9	242	-	2x35	20.8	916
-	18x1	12.5	268	-	3x35	22.5	1217
-	21x1	14	310	-	4x35	24.9	1549
-	25x1	14.9	361	-	5x35	27.6	1889
-	27x1	14.9	384	-	2x50	24.4	1270
-	30x1	15.5	421	-	3x50	26.2	1675
-	34x1	16.7	473	-	4x50	29.3	2151
-	37x1	16.7	507	-	5x50	33	2671
-	42x1	18.1	571	-	4x70	38.70	3600

YSLY-OZ/JZ 300/500V

[D] [SR] YSLY-OB/JB Eca

Model Product: 225-213-209-210 - 20211012

Tabella / table

-	Nominal Section	Toegelaten stroomsterkste voor een verbinding in open lucht bij 30°C (A)							Maximale kernweerstand (klasse 5) bij 20°C (IEC 60228)
		2	3-4-5	7	12	18	27	36	
	(mmq)	(A)	(A)	(A)	(A)	(A)	(A)	(A)	(Ohm/km)
Multicores									
-	0.50	10	9	6.5	5.5	4.5	4	3.5	39
-	0.75	13.5	12	9	7	6	5.5	5	26
-	1	15	13.5	10.5	8	7	6.5	5.5	19.5
-	1.5	19.5	17.5	13	10.5	9.5	8	7	13.3
-	2.5	26	24	17.5	14.5	12.5	11	10	7.98
-	4	35	32	-	-	-	-	-	4.95
-	6	46	41	-	-	-	-	-	3.3
-	10	63	57	-	-	-	-	-	1.91
-	16	85	76	-	-	-	-	-	1.21
-	25	112	101	-	-	-	-	-	0.78
-	35	138	125	-	-	-	-	-	0.554
-	50	168	151	-	-	-	-	-	0.386

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HSLH HP -JZ/OZ 300/500V

[D][BE] LSZH CPR Cca-s1, d2, a1

Model Product: B89-B90-B91-B92 - 20231024

Class 5 flexible copper conductor.
LSZH insulation
LSZH sheath.

STANDARDS

VDE 0472 / IEC 60228 CL.5 VDE 0290; 0290; 0281; 0245; 0293.EN 50267 / IEC 60754-2 / DIN VDE 0472-813 EN 50268 / IEC61034 / DIN VDE 0472-816
EN 50575:2014 + EN 50575/A1:2016

Accordingly to the standards BT 2014/35/UE- 2011/65/EU (RoHS 2)

FLEXIBLE, NUMBER CODED, CABLES FOR MEASURING AND CONTROL INSTALLATION. LSZH

Nominal voltage U0: 300 V
Nominal voltage U: 500 V
Test voltage: 4000 V
Maximun operating temperature: +70°C
Minimum installation and laying temperature: -5°C
Min. operating temperature (without mechanical shocks): -40°C

COMMON FEATURES

LSZH Multiconductor oil resistant cables suitable for connection to fixed or mobile devices, for signalling and control system.Suitable for indoor enviroment (dry or wet) , and for outdoor enviroment (only for a temporary and protected use). The selected raw materials and small outer dimensions, guarantee a good flexibility, and reduced weight, as well as a safe, economic and fast installation.A system operating voltage can always overflow the 10% of its standard voltage.Supply of electricity and communications in buildings and other civil engineering works with the objective of limiting the generation and spread of fire and smoke. UV resistant according to EN 50289-4-17 method A (720h)
Oil resistant EN 50290-2-22,
Environment AF3,AG3, AH1,AD7

EMPLOYMENT

Minimum bending radius per D cable diameter (in mm):
15 x external diam. (mobile installation)
6 x external diam. (fixed installation)

Maximum pulling stress: 50 N/mm2 (during installation)
15 N/mm2 (static stress)

PACKING

Drums to agree

CORE COLOURS

Multicores: black core with white numbering(OZ) + GreenYellow core (JZ).

SHEATH COLOUR

Grey RAL 7001

INK MARKING

GENERAL CAVI Cca-s1,d2,a1 HSLH HP-JZ /OZ 300/500V [n° cond] x [sec.] batch number Batch Data

NOTE

TEMPERATURE RANGE flexing:-5 +70°C
TEMPERATURE fixed installation without mechanical shocks:-40 +80°C
Made with compound suitable for IEC / EN 60332-3-24
Colour coded cores on request (OB/JB)HD 308

HSLH HP -JZ/OZ 300/500V

[D][BE] LSZH CPR Cca-s1, d2, a1

Model Product: B89-B90-B91-B92 - 20231024

Tabella Dimensionali/Dimensional table

	Cond.xSec	Outer diameter	Weight		Cond.xSec	Outer diameter	Weight
	(N°xmmq)	(mm)	(kg/km)		(N°xmmq)	(mm)	(kg/km)
Multicores							
-	2x0.50	5.1	32	-	2x1.5	6.3	58
-	3x0.50	5.4	39	-	3x1.5	6.7	72
-	4x0.50	5.8	47	-	4x1.5	7.5	93
-	5x0.50	6.3	55	-	5x1.5	8.1	111
-	6x0.50	6.7	64	-	6x1.5	8.7	129
-	7x0.50	6.7	71	-	7x1.5	8.7	144
-	8x0.50	7.7	83	-	8x1.5	9.9	169
-	10x0.50	8.6	101	-	10x1.5	11.2	205
-	12x0.50	8.9	115	-	12x1.5	11.8	243
-	14x0.50	9.3	131	-	14x1.5	12.3	278
-	16x0.50	10.5	151	-	16x1.5	13.0	312
-	18x0.50	10.5	166	-	18x1.5	13.7	346
-	21x0.50	11.9	197	-	21x1.5	15.3	400
-	25x0.50	12.7	228	-	25x1.5	16.4	467
-	27x0.50	12.7	242	-	2x2.5	7.4	85
-	30x0.50	13.1	264	-	3x2.5	7.8	108
-	34x0.50	14.1	296	-	4x2.5	8.6	135
-	-	-	-	-	5x2.5	9.3	162
-	-	-	-	-	6x2.5	10.3	195
-	2x0.75	5.5	40	-	7x2.5	10.3	219
-	3x0.75	5.8	48	-	8x2.5	11.5	250
-	4x0.75	6.3	59	-	10x2.5	13.2	310
-	5x0.75	6.8	70	-	12x2.5	13.6	361
-	6x0.75	7.5	85	-	14x2.5	14.3	414
-	7x0.75	7.5	94	-	16x2.5	15.1	467
-	8x0.75	8.5	106	-	18x2.5	16.0	519
-	10x0.75	9.6	133	-	21x2.5	18.1	602
-	12x0.75	9.9	153	-	25x2.5	19.3	705
-	14x0.75	10.4	174	-	2x4	8.9	127
-	16x0.75	10.9	195	-	3x4	9.7	167
-	18x0.75	11.7	221	-	4x4	10.6	209
-	21x0.75	12.6	256	-	5x4	11.6	252
-	25x0.75	13.9	297	-	2x6	10.3	179
-	27x0.75	13.9	315	-	3x6	11.0	232
-	30x0.75	14.4	345	-	4x6	12.1	298

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HSLH HP -JZ/OZ 300/500V

[D][BE] LSZH CPR Cca-s1, d2, a1

Model Product: B89-B90-B91-B92 - 20231024

	Cond.xSec (N°xmmq)	Outer diameter (mm)	Weight (kg/km)		Cond.xSec (N°xmmq)	Outer diameter (mm)	Weight (kg/km)
-	34x0.75	15.5	388	-	5x6	13.4	360
-	-	-	-	-	2x10	13.7	314
-	-	-	-	-	3x10	14.6	407
-	2x1	5.6	47	-	4x10	16.1	514
-	3x1	5.9	58	-	5x10	17.7	623
-	4x1	6.5	71	-	2x16	16.3	416
-	5x1	7.3	88	-	3x16	17.2	605
-	6x1	7.9	102	-	4x16	19.0	769
-	7x1	7.9	113	-	5x16	20.9	950
-	8x1	8.8	128	-	2x25	19.1	673
-	10x1	10.2	160	-	3x25	20.4	910
-	12x1	10.5	185	-	4x25	22.8	1165
-	14x1	11.1	211	-	5x25	25.2	1417
-	16x1	11.9	242	-	2x35	21.1	916
-	18x1	12.5	268	-	3x35	22.8	1217
-	21x1	14	310	-	4x35	25.2	1549
-	25x1	14.9	361	-	5x35	27.9	1889
-	27x1	14.9	384	-	2x50	24.7	1270
-	30x1	15.5	421	-	3x50	26.5	1675
-	34x1	16.7	473	-	4x50	29.6	2151
-	37x1	16.7	507	-	5x50	33.3	2671

HSLH-JZ /OZ 300/500V

[D] LSZH CPR Eca

Model Product: 591-592 - 20210324

Class 5 flexible copper conductor.
LSZH insulation
LSZH sheath.

STANDARDS

VDE 0472 / IEC 60228 CL.5 VDE 0290; 0290; 0281; 0245; 0293.EN 50267 / IEC 60754-2 /
DIN VDE 0472-813 EN 50268 / IEC61034 / DIN VDE 0472-816
EN 50575:2014 + EN 50575/A1:2016

Accordingly to the standards BT 2014/35/UE- 2011/65/EU (RoHS 2)

COMMON FEATURES

LSZH Multiconductor oil resistant cables suitable for connection to fixed or mobile devices, for signalling and control system.Suitable for indoor enviroment (dry or wet) , and for outdoor enviroment (only for a temporary and protected use). The selected raw materials and small outer dimensions, guarantee a good flexibility, and reduced weight, as well as a safe, economic and fast installation.A system operating voltage can always overflow the 10% of its standard voltage.Supply of electricity and communications in buildings and other civil engineering works with the objective of limiting the generation and spread of fire and smoke.

EMPLOYMENT

Minimum bending radius per D cable diameter (in mm):
15 x external diam. (mobile installation)
6 x external diam. (fixed installation)

Maximum pulling stress: 50 N/mm2 (during installation)
15 N/mm2 (static stress)

PACKING

Drums to agree

FLEXIBLE, NUMBER CODED, CABLES FOR MEASURING AND CONTROL INSTALLATION. LSZH

Nominal voltage U0: 300 V
Nominal voltage U: 500 V
Test voltage: 4000 V
Maximun operating temperature: +70°C
Minimum installation and laying temperature: -5°C
Min. operating temperature (without mechanical shocks): -40°C

CORE COLOURS

Multicores: black core with white numbering(OZ) + GreenYellow core (JZ).

SHEATH COLOUR

Grey RAL 7001

INK MARKING

GENERAL CAVI Eca HSLH-JZ /OZ 300/500V [n° cond] x [sec.] batch number Batch Data

NOTE

TEMPERATURE RANGE flexing:-5 +70°C
TEMPERATURE fixed installation without mechanical shocks:-40 +80°C
Made with compound suitable for IEC / EN 60332-3-24
Colour coded cores on request (OB/JB)HD 308

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HSLH-JZ /OZ 300/500V

[D] LSZH CPR Eca

Model Product: 591-592 - 20210324

Tabella Dimensionali/Dimensional table

	Cond.xSec	Outer diameter	Weight		Cond.xSec	Outer diameter	Weight
	(N°xmmq)	(mm)	(kg/km)		(N°xmmq)	(mm)	(kg/km)
Multicores							
-	2x0.50	4.8	32	-	2x1.5	6	58
-	3x0.50	5.1	39	-	3x1.5	6.4	72
-	4x0.50	5.5	47	-	4x1.5	7.2	93
-	5x0.50	6	55	-	5x1.5	7.8	111
-	6x0.50	6.5	64	-	6x1.5	8.5	129
-	7x0.50	6.5	71	-	7x1.5	8.5	144
-	8x0.50	7.5	83	-	8x1.5	9.7	169
-	10x0.50	8.4	101	-	10x1.5	11	205
-	12x0.50	8.7	115	-	12x1.5	11.6	243
-	14x0.50	9.1	131	-	14x1.5	12.1	278
-	16x0.50	10.3	151	-	16x1.5	12.8	312
-	18x0.50	10.3	166	-	18x1.5	13.5	346
-	21x0.50	11.7	197	-	21x1.5	15.1	400
-	25x0.50	12.5	228	-	25x1.5	16.2	467
-	27x0.50	12.5	242	-	2x2.5	7.1	85
-	30x0.50	12.9	264	-	3x2.5	7.5	108
-	34x0.50	13.9	296	-	4x2.5	8.3	135
-	37x0.50	13.9	316	-	5x2.5	9	162
-	42x0.50	15	355	-	6x2.5	10.1	195
-	2x0.75	5.2	40	-	7x2.5	10.1	219
-	3x0.75	5.5	48	-	8x2.5	11.3	250
-	4x0.75	6	59	-	10x2.5	13	310
-	5x0.75	6.5	70	-	12x2.5	13.4	361
-	6x0.75	7.3	85	-	14x2.5	14.1	414
-	7x0.75	7.3	94	-	16x2.5	14.9	467
-	8x0.75	8.2	106	-	18x2.5	15.8	519
-	10x0.75	9.4	133	-	21x2.5	17.7	602
-	12x0.75	9.7	153	-	25x2.5	18.9	705
-	14x0.75	10.2	174	-	2x4	8.6	127
-	16x0.75	10.7	195	-	3x4	9.4	167
-	18x0.75	11.5	221	-	4x4	10.3	209
-	21x0.75	12.4	256	-	5x4	11.3	252
-	25x0.75	13.7	297	-	2x6	10	179
-	27x0.75	13.7	315	-	3x6	10.7	232
-	30x0.75	14.2	345	-	4x6	11.9	298

HSLH-JZ /OZ 300/500V

[D] LSZH CPR Eca

Model Product: 591-592 - 20210324

	Cond.xSec (N°xmmq)	Outer diameter (mm)	Weight (kg/km)		Cond.xSec (N°xmmq)	Outer diameter (mm)	Weight (kg/km)
-	34x0.75	15.3	388	-	5x6	13.1	360
-	37x0.75	15.3	415	-	2x10	13.4	314
-	42x0.75	16.6	467	-	3x10	14.3	407
-	2x1	5.6	47	-	4x10	15.8	514
-	3x1	5.9	58	-	5x10	17.4	623
-	4x1	6.5	71	-	2x16	15.8	416
-	5x1	7.3	88	-	3x16	16.9	605
-	6x1	7.9	102	-	4x16	18.7	769
-	7x1	7.9	113	-	5x16	20.6	950
-	8x1	8.8	128	-	2x25	18.8	673
-	10x1	10.2	160	-	3x25	20.1	910
-	12x1	10.5	185	-	4x25	22.5	1165
-	14x1	11.1	211	-	5x25	24.9	1417
-	16x1	11.9	242	-	2x35	20.8	916
-	18x1	12.5	268	-	3x35	22.5	1217
-	21x1	14	310	-	4x35	24.9	1549
-	25x1	14.9	361	-	5x35	27.6	1889
-	27x1	14.9	384	-	2x50	24.4	1270
-	30x1	15.5	421	-	3x50	26.2	1675
-	34x1	16.7	473	-	4x50	29.3	2151
-	37x1	16.7	507	-	5x50	33	2671
-	42x1	18.1	571	-			

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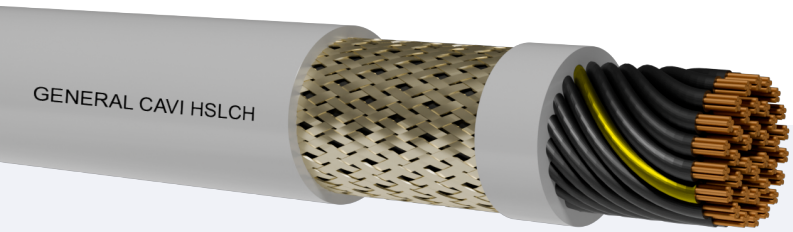
HSLCH-OZ/JZ 300/500V

[D] LSZH

Model Product: - 20160309



CE

Class 5 flexible copper conductor.
LSZH insulation
Tinned copper wires braid screen (Kf>75%)
Thermoplastic LS0H

STANDARDS

VDE 0472 / IEC 60332-1 VDE 0295 / IEC 60228 CL.5 VDE 0290; 0290; 0281; 0245; 0293.EN 50267 / IEC 60754-2 / DIN VDE 0472-813 EN 50268 / IEC61034 / DIN VDE 0472-816

Accordingly to the standards BT 2014/35/UE- 2011/65/EU (RoHS 2)

COMMON FEATURES

LSZH Multiconductor oil resistant screened cables suitable for connection to fixed or
mobile devices, for signalling and control system.Suitable for indoor enviroment (dry or wet) , and for outdoor enviroment (only for a temporary and protected use). The selected raw materials and small outer dimensions, guarantee a good flexibility, and reduced weight, as well as a safe, economic and fast installation.A system operating voltage can always overflow the 10% of its standard voltage.

EMPLOYMENT

Minimum bending radius per D cable diameter (in mm):
20 x external diam. (mobile installation)
10 x external diam. (fixed installation)

Maximum pulling stress: 50 N/mm2 (during installation)
15 N/mm2 (static stress)

PACKING

100m ring inside Heat Shrink Packaging
500m, 1000m drum.

LSZH FLEXIBLE, SCREENED, NUMBER CODED, CABLES FOR MEASURING AND CONTROL INSTALLATION.

Nominal voltage U0: 300 V
Nominal voltage U: 500 V
Test voltage: 4000 V
Maximun operating temperature: +70°C
Minimum installation and laying temperature: -5°C
Min. operating temperature (without mechanical shocks): -40°C

CORE COLOURS

Multicores: black core with white numbering(OZ) + GreenYellow core (JZ).

SHEATH COLOUR

Grey RAL 7001

INK MARKING

GENERAL CAVI HSLCH-JZ /OZ 300/500V [n° cond] x [sec.] batch number
Batch Data

NOTE

TEMPERATURE RANGE flexing:-5 +70°C
TEMPERATURE fixed installation without mechanical shocks:-40 +80°C
Colour coded cores on request (OB/JB)HD 308
Made with compound suitable for IEC / EN 60332-3-24

HSLCH-OZ/JZ 300/500V

[D] LSZH

Model Product: - 20160309

HSLCH-OZ/JZ

	Cond.xSec	Outer diameter	Weight		Cond.xSec	Outer diameter	Weight
	(N°xmmq)	(mm)	(kg/km)		(N°xmmq)	(mm)	(kg/km)
Multicores							
-	2x0.50	5.4	41	-	2x1.5	6.7	67
-	3x0.50	5.7	50	-	3x1.5	7	85
-	4x0.50	6.1	59	-	4x1.5	7.9	106
-	5x0.50	6.6	72	-	5x1.5	8.6	130
-	6x0.50	7.1	82	-	6x1.5	9.2	155
-	7x0.50	7.1	85	-	7x1.5	9.2	165
-	8x0.50	8.1	110	-	8x1.5	10.5	215
-	10x0.50	9.1	123	-	10x1.5	12.1	245
-	12x0.50	9.4	138	-	12x1.5	12.5	280
-	14x0.50	10	159	-	14x1.5	13.1	315
-	16x0.50	10.5	175	-	16x1.5	13.8	350
-	18x0.50	11	198	-	18x1.5	14.5	395
-	21x0.50	12.5	230	-	21x1.5	15.6	440
-	25x0.50	13.2	260	-	25x1.5	16.7	510
-	2x0.75	5.8	49	-	2x2.5	7.9	95
-	3x0.75	6.1	60	-	3x2.5	8.4	125
-	4x0.75	6.6	73	-	4x2.5	9.1	155
-	5x0.75	7.2	87	-	5x2.5	10.1	190
-	6x0.75	7.9	104	-	6x2.5	11	230
-	7x0.75	7.9	110	-	7x2.5	11	245
-	8x0.75	8.8	138	-	8x2.5	12.5	290
-	10x0.75	10	155	-	10x2.5	14.1	350
-	12x0.75	10,3	175	-	12x2.5	14.6	405
-	14x0.75	10.8	200	-	14x2.5	15.3	460
-	16x0.75	11.5	220	-	16x2.5	16.1	520
-	18x0.75	12.2	255	-	18x2.5	18.2	570
-	21x0.75	13.6	290	-	21x2.5	19.4	660
-	25x0.75	14.4	325	-	25x2.5	21	770
-	2x1	6.3	56	-	2x4	9	130
-	3x1	6.6	70	-	3x4	9.9	175
-	4x1	7.2	85	-	4x4	10.8	220
-	5x1	8	105	-	5x4	11.7	270
-	6x1	8.7	125	-	2x6	10.5	180
-	7x1	8.7	130	-	3x6	11	240
-	8x1	9.9	170	-	4x6	12.5	310

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Catalogo prodotti da costruzione CPR UE305/2011

HSLCH-OZ/JZ 300/500V

[D] LSZH

Model Product: - 20160309

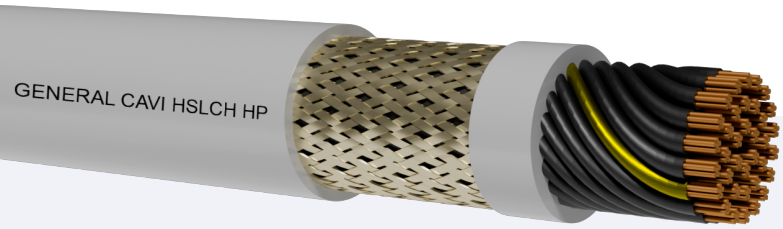
	Cond.xSec (N°xmmq)	Outer diameter (mm)	Weight (kg/km)		Cond.xSec (N°xmmq)	Outer diameter (mm)	Weight (kg/km)
-	10x1	11	190	-	5x6	13.6	385
-	12x1	11.3	215	-	2x10	13.9	302
-	14x1	12.2	250	-	3x10	14.8	410
-	16x1	12.8	280	-	4x10	16.3	523
-	18x1	13.5	315	-	5x10	17.9	637
-	21x1	15	360	-			
-	25x1	16	410	-			
-	-	-	-	-	-	-	-
-	2x16	16.3	433	-	2x25	19.3	616
-	3x16	17.4	598	-	3x25	20.6	864
-	4x16	19.2	769	-	4x25	23	1128
-	5x16	21.1	941	-	5x25	25.4	1384
-	-	-	-	-	-	-	
-	2x35	20.8	900	-	2x50	24.4	1250
-	3x35	22.5	1200	-	3x50	26.2	1654
-	4x35	24.9	1530	-	4x50	29.3	2127
-	5x35	27.6	1866	-	5x50	33	2641

Minimum Order Quantity request.

HSLCH HP -OZ/JZ 300/500V

[D][BE] LSZH CPR Cca-s1b,d2,a1

Model Product: B85-B86-B87-B88 - 20210624



LSZH FLEXIBLE, SCREENED, NUMBER CODED, CABLES FOR MEASURING AND CONTROL INSTALLATION.

Class 5 flexible copper conductor.
LSZH insulation
Tinned copper wires braid screen (Kf>75%)
Thermoplastic LS0H

Nominal voltage U0: 300 V
Nominal voltage U: 500 V
Test voltage: 4000 V
Maximun operating temperature: +70°C
Minimum installation and laying temperature: -5°C
Min. operating temperature (without mechanical shocks): -40°C

STANDARDS

VDE 0472 / IEC 60332-1 VDE 0295 / IEC 60228 CL.5 VDE 0290; 0290; 0281; 0245; 0293.EN 50267 / IEC 60754-2 / DIN VDE 0472-813 EN 50268 / IEC61034 / DIN VDE 0472-816
EN 50575:2014 + EN 50575/A1:2016

Accordingly to the standards BT 2014/35/UE- 2011/65/EU (RoHS 2)

CORE COLOURS

Multicores: black core with white numbering(OZ) + GreenYellow core (JZ).

SHEATH COLOUR

Grey RAL 7001

INK MARKING

GENERAL CAVI Cca-s1,d2,a1 HSLCH HP-JZ /OZ 300/500V [n° cond] x [sec.]
batch number
Batch Data

COMMON FEATURES

For electrical power system in constructions alnd other civil engineering bulginngs,in order to limit fire and smoke production and spread,in accordance with the CPR. LSZH Multiconductor oil resistant screened cables suitable for connection to fixed or
mobile devices, for signalling and control system.Suitable for indoor enviroment (dry or wet) , and for outdoor enviroment (only for a temporary and protected use). The selected raw materials and small outer dimensions, guarantee a good flexibility, and reduced weight, as well as a safe, economic and fast installation.A system operating voltage can always overflow the 10% of its standard voltage. UV resistant according to EN 50289-4-17 method A (720h)
Oil resistant EN 50290-2-22,
Environment AF3,AG3, AH1,AD7

NOTE

TEMPERATURE RANGE flexing:-5 +70°C
TEMPERATURE fixed installation without mechanical shocks:-40 +80°C
Colour coded cores on request (OB/JB)HD 308
Made with compound suitable for IEC / EN 60332-3-24

EMPLOYMENT

Minimum bending radius per D cable diameter (in mm):
20 x external diam. (mobile installation)
10 x external diam. (fixed installation)

Maximum pulling stress: 50 N/mm2 (during installation)
15 N/mm2 (static stress)

PACKING

100m ring inside Heat Shrink Packaging
500m, 1000m drum.

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HSLCH HP-OZ/JZ

	Cond.xSec (N°xmmq)	Outer diameter (mm)	Weight (kg/km)		Cond.xSec (N°xmmq)	Outer diameter (mm)	Weight (kg/km)
Multicores							
-	2x0.50	5.7	41	-	2x1.5	6.7	67
-	3x0.50	6.0	50	-	3x1.5	7	85
-	4x0.50	6.4	59	-	4x1.5	7.9	106
-	5x0.50	6.9	72	-	5x1.5	8.6	130
-	6x0.50	7.3	82	-	6x1.5	9.2	155
-	7x0.50	7.3	85	-	7x1.5	9.2	165
-	8x0.50	8.3	110	-	8x1.5	10.5	215
-	10x0.50	93	123	-	10x1.5	12.1	245
-	12x0.50	9.7	138	-	12x1.5	12.5	280
-	14x0.50	10.2	159	-	14x1.5	13.1	315
-	16x0.50	10.7	175	-	16x1.5	13.8	350
-	18x0.50	11.2	198	-	18x1.5	14.5	395
-	21x0.50	12.7	230	-	21x1.5	15.6	440
-	25x0.50	13.4	260	-	25x1.5	16.7	510
-	2x0.75	6.1	49	-	2x2.5	7.9	95
-	3x0.75	6.4	60	-	3x2.5	8.4	125
-	4x0.75	6.9	73	-	4x2.5	9.1	155
-	5x0.75	7.5	87	-	5x2.5	10.1	190
-	6x0.75	8.1	104	-	6x2.5	11	230
-	7x0.75	8.1	110	-	7x2.5	11	245
-	8x0.75	9.0	138	-	8x2.5	12.5	290
-	10x0.75	10.2	155	-	10x2.5	14.1	350
-	12x0.75	10,5	175	-	12x2.5	14.6	405
-	14x0.75	11.0	200	-	14x2.5	15.3	460
-	16x0.75	11.7	220	-	16x2.5	16.1	520
-	18x0.75	12.4	255	-	18x2.5	18.4	570
-	21x0.75	13.8	290	-	21x2.5	19.6	660
-	25x0.75	14.6	325	-	25x2.5	21.2	770
-	2x1	6.6	56	-	2x4	9.4	130
-	3x1	6.9	70	-	3x4	10.2	175
-	4x1	7.5	85	-	4x4	11.1	220
-	5x1	8.3	105	-	5x4	12.2	270
-	6x1	8.9	125	-	2x6	10.8	180
-	7x1	8.9	130	-	3x6	11.3	240
-	8x1	10.1	170	-	4x6	12.8	310

HSLCH HP -OZ/JZ 300/500V

[D][BE] LSZH CPR Cca-s1b,d2,a1

Model Product: B85-B86-B87-B88 - 20210624

	Cond.xSec (N°xmmq)	Outer diameter (mm)	Weight (kg/km)		Cond.xSec (N°xmmq)	Outer diameter (mm)	Weight (kg/km)
-	10x1	11.2	190	-	5x6	13.9	385
-	12x1	11.5	215	-	2x10	14.2	302
-	14x1	12.4	250	-	3x10	15.1	410
-	16x1	13.0	280	-	4x10	16.3	523
-	18x1	13.7	315	-	5x10	17.9	637
-	21x1	15.2	360	-			
-	25x1	16.2	410	-			
-	-	-	-	-	-	-	-
-	2x16	16.6	433	-	2x25	19.3	616
-	3x16	17.7	598	-	3x25	20.6	864
-	4x16	19.5	769	-	4x25	23	1128
-	5x16	21.5	941	-	5x25	25.4	1384
-	-	-	-	-	-	-	
-	2x35	21.1	900	-	2x50	24.4	1250
-	3x35	22.8	1200	-	3x50	26.2	1654
-	4x35	25.2	1530	-	4x50	29.3	2127
-	5x35	27.9	1866	-	5x50	33	2641

Minimum Order Quantity request.

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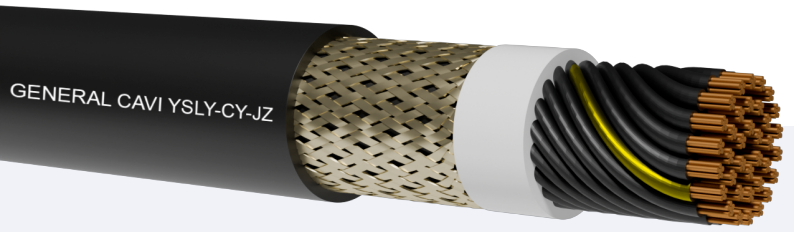
YSLYCY-OZ/JZ 600/1000V

[D]

Model Product: - 20171220



CE

Class 5 flexible copper conductor.
PVC Insulation in TI2 quality.
Tinned copper wires braid screen (Kf>75%)
PVC sheath in TM2 quality.

STANDARDS

VDE 0472 / IEC 60332-1 VDE 0295 / IEC 60228 CL.5 VDE 0290; 0290; 0281; 0245; 0293.CEI 20-34/2-1 (CEI EN 60811-2-1) ASTM n.2 IRM 902

Accordingly to the standards BT 2014/35/UE- 2011/65/EU (RoHS 2)

COMMON FEATURES

Multiconductor oil resistant screened cables suitable for connection to fixed or mobile devices, for signalling and control system.For indoor enviroment (dry or wet) , and for outdoor enviroment (UV RESISTANT). The selected raw materials and small outer dimensions, guarantee a good flexibility, and reduced weight, as well as a safe, economic and fast installation.A system operating voltage can always overflow the 10% of its standard voltage.

EMPLOYMENT

Minimum bending radius per D cable diameter (in mm):
20 x external diam. (mobile installation)
10 x external diam. (fixed installation)

Maximum pulling stress: 50 N/mm2 (during installation)
15 N/mm2 (static stress)

PACKING

100m ring inside Heat Shrink Packaging
500m, 1000m drum.

FLEXIBLE, SCREENED, NUMBER CODED, CABLES FOR MEASURING AND CONTROL INSTALLATION.

Nominal voltage U0: 600 V

Nominal voltage U: 1000 V

Test voltage: 4000 V

Maximun operating temperature: +70°C

Minimum installation and laying temperature: -5°C

Min. operating temperature (without mechanical shocks): -40°C

CORE COLOURS

Multicores: black core with white numbering(OZ) + GreenYellow core (JZ).

SHEATH COLOUR

Black

INK MARKING

GENERAL CAVI YSLYCY-JZ 600/1000V [n° cond] x [sec.] batch number Batch Data

NOTE

TEMPERATURE RANGE flexing:-5 +70°C
TEMPERATURE fixed installation without mechanical shocks:-40 +80°C
Colour coded cores on request (OB/JB)HD 308
Oil resistant EN 50290-2-22

YSLYCY-OZ/JZ 600/1000V

[D]

Model Product: - 20171220

YSLYCY OZ_JZ 600/1000V

-	Cond.xSec	Outer diameter	Weight	Cond.xSec	Outer diameter	Weight
	(N°xmmq)	(mm)	(kg/km)	(N°xmmq)	(mm)	(kg/km)
Multicores						
-	3x1.5	12.4	200	5x2.5	14.92	350
-	3x2.5	12.95	235	5x4	18.22	520
-	3x4	15.7	345	7x1.5	15.25	360
-	4x1.5	13.15	245	7x2.5	16.25	435
-	4x2.5	13.95	305	7x4	20.15	830
-	4x4	16.95	440	12x1.5	19.4	540
-	5x1.5	14.24	295	12x2.5	20.75	675
-	-	-	-	12x4	30.15	1510

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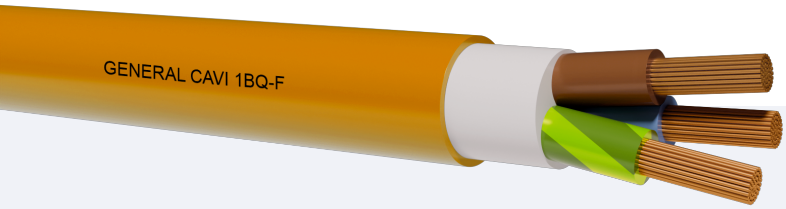
1BQ-F

CPR Eca

Model Product: 250-251 - 20200713



Class 5 flexible copper conductor.
Elastomeric mixture Insulation in EI6 quality.
Not fibrous and not hygroscopic filler
Polyurethane sheath.

STANDARDS

CEI EN 50525-2-21 PQA CEI 20-107/2-21 PQA CEI 20-19/10 PQA
EN 50575:2014 + EN 50575/A1:2016

Accordingly to the standards BT 2014/35/UE- 2011/65/EU (RoHS 2)

ENERGY TRANSMISSION ELASTOMERIC EI6 INSULATED CABLES WITH POLYURETHANE SHEATH SUITABLE IN DRY, HUMID OR MOIST SITUATIONS, EVEN ON IMMERSIONOIL RESISTANT IN ACCORDING TO EN 60811-2-1

Nominal voltage U0: 600 V
Nominal voltage U: 1000 V
Test voltage: 4000 V
Maximun operating temperature: +90°C
Maximun short circuit temperature: +250°C
Minimum installation and laying temperature: -40°C
Min. operating temperature (without mechanical shocks): -55°C

COMMON FEATURES

In dry, humid or moist situations, outdoors (AD6 and AD7). Especially suitable in situations where the cable il subject to high abrasion and tear stresses. Suitable for permanent outdoor use where a black sheath is specified and tested against appropriate requirements, or the manifacturer has provided suitable alternative protections.Supply of electricity and communications in buildings and other civil engineering works with the objective of limiting the generation and spread of fire and smoke

EMPLOYMENT

Minimum bending radius per D cable diameter (in mm):
Fixed installation D<8=3D D<12=3D D<20=4D D>20=4D
Free Movement D<8=4D D<12=4D D<20=5D D>20=6D

Maximum pulling stress: 15 N/mm2 section of copper dynamic applications, for fixed 50 N/mm2

PACKING

100mt. rings in thermoplastic film or drums to agree.

CORE COLOURS

Single core: black

SHEATH COLOUR

Orange

INK MARKING

GENERAL CAVI -Eca - 1BQ-F - form x sect. - inner work order - progressive lenght- year

1BQ-F

CPR Eca

Model Product: 250-251 - 20200713

Cores number	Cross section	Approx conductor diameter	Insulation medium thickness	Approx external production diameter	Approx cable weight	Electric resistance at 20°C	20°C In ground	Current rating for fixed installation for 30°C or pipe
(N°)	(mm²)	(mm)	(mm)	(mm)	(kg/km)	(Ohm/km)	(A)	(A)
Single core								
1x	25	6.9	1.4	13.74	375	0.780	100	117
1x	35	8.1	1.4	15.35	492	0.554	121	144
1x	50	9.8	1.6	17.68	675	0.386	150	175
1x	70	11.6	1.6	20.00	908	0.272	184	222
1x	95	13.3	1.8	22.12	1171	0.206	217	269
1x	120	15.1	1.8	24.54	1445	0.161	259	312
1x	150	16.8	2.0	26.87	1783	0.129	287	355
1x	185	18.6	2.2	28.89	2125	0.106	323	417
1x	240	21.4	2.4	32.62	2733	0.0801	379	490
1x	300	23.9	2.6	36.46	3350	0.0641	488	637
1x	400	27.5	2.8	39.6	4800	0.0486	553	722
Two cores								
2x	1	1.3	0.8	7.86	75	19.0	-	12.5
2x	1.5	1.6	0.8	8.51	95	13.3	23	22
2x	2.5	2.0	0.9	10.01	137	7.98	30	30
2x	4	2.6	1.0	11.61	193	4.95	39	40
2x	6	3.4	1.0	12.81	250	3.30	49	51
2x	10	4.4	1.2	17.25	444	1.91	66	69
2x	16	5.7	1.2	19.43	608	1.21	86	91
2x	25	6.9	1.4	25.55	1040	0.780	111	119
2x	35	8.1	1.4	28.10	1169	0.554	136	146
2x	50	9.8	1.6	33.1	1600	0.386	168	175
Three cores								
3x	1	1.3	0.8	8.47	95	19.0	-	12.5
3x	1.5	1.6	0.9	8.99	108	13.3	19.0	19.5
3x	2.5	2.0	0.9	10.59	137	7.98	25	26
3x	4	2.6	1.0	12.31	197	4.95	32	35
3x	6	3.4	1.0	13.79	267	3.3	41	44
3x	10	4.4	1.2	18.47	556	1.91	55	60
3x	16	5.7	1.2	21.02	780	1.21	72	80
3x	25	6.9	1.4	27.69	1324	0.780	93	105
3x	35	8.1	1.4	30.95	1754	0.554	114	128
3x	50	9.8	1.6	35.80	2409	0.386	141	154
3x	70	11.6	1.6	40.45	3211	0.272	174	194
3x	95	13.3	1.8	45.08	4210	0.206	206	233

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1BQ-F

CPR Eca

Model Product: 250-251 - 20200713

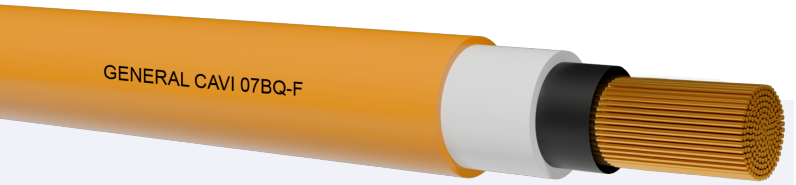
Cores number	Cross section	Approx conductor diameter	Insulation medium thickness	Approx external production diameter	Approx cable weight	Electric resistance at 20°C	20°C In ground	Current rating for fixed installation for 30°C or pipe
(N°)	(mm²)	(mm)	(mm)	(mm)	(kg/km)	(Ohm/km)	(A)	(A)
3x	120	15.1	1.8	49.93	5205	0.161	238	268
Four cores								
4x	1	1.3	0.8	9.61	105	19.0	-	12.5
4x	1.5	1.6	0.8	9.97	120	13.3	19	19.5
4x	2.5	2.0	0.9	11.74	177	7.98	25	26
4x	4	2.6	1.0	13.64	256	4.95	32	35
4x	6	3.4	1.0	15.25	346	3.3	41	44
4x	10	4.4	1.2	20.25	702	1.91	55	60
4x	16	5.7	1.2	22.84	981	1.21	72	80
4x	25	6.9	1.4	30.75	1714	0.780	93	105
4x	35	8.1	1.4	34.23	2204	0.554	114	128
4x	50	9.8	1.6	39.56	3029	0.386	141	154
4x	70	11.6	1.6	44.89	4121	0.272	174	194
4x	95	13.3	1.8	50.36	5361	0.206	206	233
4x	120	15.1	1.8	55.53	6546	0.161	238	268
4x	150	16.8	2.0	60.87	8095	0.129	272	300
Five cores								
5G	1	1.3	0.8	10.21	150	19.0	-	12.5
5G	1.5	1.6	0.8	10.81	177	13.3	19	19.5
5G	2.5	2.0	0.9	12.97	260	7.98	25	26
5G	4	2.6	1.0	15.06	372	4.95	32	35
5G	6	3.4	1.0	16.12	491	3.3	41	44
5G	10	4.4	1.2	22.22	852	1.91	55	60
5G	16	5.7	1.2	25.26	1206	1.21	72	80
5G	25	6.9	1.4	33.57	2096	0.780	93	105
5G	35	8.1	1.4	39.20	2697	0.554	114	128
5G	50	9.8	1.6	45.40	3740	0.386	141	154
5G	70	11.6	1.6	48.00	5033	0.272	174	194
5G	95	13.3	1.8	53.22	6271	0.206	206	233

Current carrying capacities for unipolar cables are calculated on 3 spanned cables.

07BQ-F

CPR Eca

Model Product: 250-251 - 20200713



ENERGY TRANSMISSION ELASTOMERIC EI6 INSULATED CABLES WITH POLYURETHANE SHEATH SUITABLE IN DRY, HUMID OR MOIST SITUATIONS, EVEN ON IMMERSIONOIL RESISTANT IN ACCORDING TO EN 60811-2-1

Class 5 flexible copper conductor.
Elastomeric mixture Insulation in EI6 quality.
Not fibrous and not hygroscopic filler
Polyurethane sheath.

STANDARDS

CEI EN 50525-2-21 PQA CEI 20-107/2-21 PQA CEI 20-19/10 PQA
EN 50575:2014 + EN 50575/A1:2016

Accordingly to the standards BT 2014/35/UE- 2011/65/EU (RoHS 2)

- Nominal voltage U0: 450 V
- Nominal voltage U: 750 V
- Test voltage: 2500 V
- Maximun voltage Um: 1000V Installazioni Fisse / for fixed and protected installation
- Maximun operating temperature: +90°C
- Maximun short circuit temperature: +250°C
- Minimum installation and laying temperature: -40°C
- Min. operating temperature (without mechanical shocks): -55°C

COMMON FEATURES

In dry, humid or moist situations, outdoors (AD6 and AD7); for medium mechanical stresses, such as: equipements in industrial and agricoltural workshop, heating installations where there is no risk of contact with hot parts and is not subject to radiations, electric tools as drills, circular saws, motors or trasportable generators in construction sites or agricoltural plants and so on, for use in coldstorage applications. Especially suitable in situations where the cable il subject to high abrasion and tear stresses. Suitable for permanent outdoor use where a black sheath is specified and tested against appropriate requirements, or the manifacturer has provided suitable alternative protections.Supply of electricity and communications in buildings and other civil engineering works with the objective of limiting the generation and spread of fire and smoke

EMPLOYMENT

Minimum bending radius per D cable diameter (in mm):
Fixed installation D<8=3D D<12=3D D<20=4D D>20=4D
Free Movement D<8=4D D<12=4D D<20=5D D>20=6D

Maximum pulling stress: 15 N/mm2 section of copper dynamic applications, for fixed 50 N/mm2

PACKING

100mt. rings in thermoplastic film or drums to agree.

CORE COLOURS

Single core: black

SHEATH COLOUR

Orange

INK MARKING

GENERAL CAVI -Eca - 07BQ-F - form x sect. - inner work order - progressive lenght- year

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Catalogo prodotti da costruzione CPR UE305/2011

07BQ-F

CPR Eca

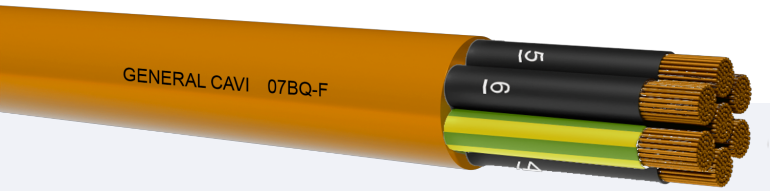
Model Product: 250-251 - 20200713

Cores number	Cross section	Approx conductor diameter	Insulation medium thickness	Approx external production diameter	Approx cable weight	Electric resistance at 20°C	Mobile service Current carrying capacities at 60°C conductor temp	Current rating for fixed installation at 90°C of conductor temp.open air
(N°)	(mm²)	(mm)	(mm)	(mm)	(kg/km)	(Ohm/km)	(A)	(A)
Single core								
1x	25	6.9	1.4	13.74	375	0.780	94	136
1x	35	8.1	1.4	15.35	492	0.554	117	168
1x	50	9.8	1.6	17.68	675	0.386	148	203
1x	70	11.6	1.6	20.00	908	0.272	185	254
1x	95	13.3	1.8	22.12	1171	0.206	222	299
1x	120	15.1	1.8	24.54	1445	0.161	260	363
1x	150	16.8	2.0	26.87	1783	0.129	300	416
1x	185	18.6	2.2	28.89	2125	0.106	341	475
1x	240	21.4	2.4	32.62	2733	0.0801	407	559
1x	300*	23.9	2.6	36.46	3350	0.0641	468	637
1x	400*	27.5	2.8	39.60	4800	0.0486	553	722

Current carrying capacities for unipolar cables are calculated on 3 spanned cables.
*No CPR

07BQ-F Multipli

Model Product: 250-251 - 20240926



CE

Class 5 flexible copper conductor.
Elastomeric mixture Insulation in EI6 quality.
Not fibrous and not hygroscopic filler
Polyurethane sheath.

STANDARDS

CEI EN 50525-2-21 PQA CEI 20-107/2-21 PQA CEI 20-19/10 PQA
EN 50575:2014 + EN 50575/A1:2016

Accordingly to the standards BT 2014/35/UE- 2011/65/EU (RoHS 2)

ENERGY TRANSMISSION ELASTOMERIC EI6 INSULATED CABLES WITH POLYURETHANE SHEATH SUITABLE IN DRY, HUMID OR MOIST SITUATIONS, EVEN ON IMMERSIONOIL RESISTANT IN ACCORDING TO EN 60811-2-1

Nominal voltage U0: 450 V

Nominal voltage U: 750 V

Test voltage: 2500 V

Maximun voltage Um: 1000V Installazioni Fisse / for fixed and protected installation

Maximun operating temperature: +90°C

Maximun short circuit temperature: +250°C

Minimum installation and laying temperature: -40°C

Min. operating temperature (without mechanical shocks): -55°C

COMMON FEATURES

In dry, humid or moist situations, outdoors (AD6 and AD7); for medium mechanical stresses, such as: equipements in industrial and agricoltural workshop, heating installations where there is no risk of contact with hot parts and is not subject to radiations, electric tools as drills, circular saws, motors or trasportable generators in construction sites or agricoltural plants and so on, for use in coldstorage applications. Especially suitable in situations where the cable il subject to high abrasion and tear stresses. Suitable for permanent outdoor use where a black sheath is specified and tested against appropriate requirements, or the manifacturer has provided suitable alternative protections.Supply of electricity and communications in buildings and other civil engineering works with the objective of limiting the generation and spread of fire and smoke

EMPLOYMENT

Minimum bending radius per D cable diameter (in mm):
Fixed installation D<8=3D D<12=3D D<20=4D D>20=4D
Free Movement D<8=4D D<12=4D D<20=5D D>20=6D

Maximum pulling stress: 15 N/mm2 section of copper dynamic applications, for fixed 50 N/mm2

PACKING

drums to agree.

CORE COLOURS

Multicores: number black

SHEATH COLOUR

Orange

INK MARKING

GENERAL CAVI - 07BQ-F - form x sect. - inner work order - progressive lenght- year

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Catalogo prodotti da costruzione CPR UE305/2011

07BQ-F Multipli

Model Product: 250-251 - 20240926

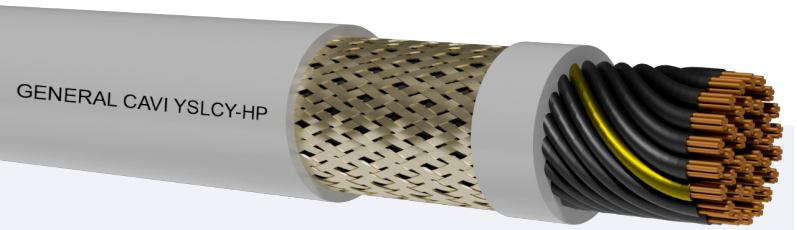
Cores number	Cross section	Approx conductor diameter	Insulation medium thickness	Approx external production diameter	Approx cable weight	Electric resistance at 20°C	Mobile service Current carrying capacities at 60°C conductor temp	Current rating for fixed installation at 90°C of conductor temp.open air
(N°)	(mm²)	(mm)	(mm)	(mm)	(kg/km)	(Ohm/km)	(A)	(A)
Multicores								
7G	1.5	1.6	0.8	15.30	320	13.3	16	21
7G	2.5	2.0	0.9	17.9	450	7.98	20	29

Current carrying capacities for unipolar cables are calculated on 3 spanned cables.
*No CPR

YSLCY HP -OZ/JZ/OB/JB 300/500V

[D]CPR Cca-s3,d1,a3

Model Product: ------- - 20180212



Class 5 flexible copper conductor.
PVC Insulation in TI2 quality.
Tinned copper wires braid screen (Kf>75%)
PVC sheath in TM2 quality.

STANDARDS

VDE 0472 / IEC 60228 CL.5 VDE 0290; 0290; 0281; 0245; 0293.
EN 50575:2014 + EN 50575/A1:2016

Accordingly to the standards BT 2014/35/UE- 2011/65/EU (RoHS 2)

FLEXIBLE, SCREENED, NUMBER CODED, CABLES FOR MEASURING AND CONTROL INSTALLATION.

Nominal voltage U0: 300 V

Nominal voltage U: 500 V

Test voltage: 4000 V

Maximun operating temperature: +70°C

Minimum installation and laying temperature: -5°C

Min. operating temperature (without mechanical shocks): -40°C

COMMON FEATURES

Multiconductor oil resistant screened cables suitable for connection to fixed or mobile devices, for signalling and control system.Suitable for indoor enviroment (dry or wet) , and for outdoor enviroment (only for a temporary and protected use). The selected raw materials and small outer dimensions, guarantee a good flexibility, and reduced weight, as well as a safe, economic and fast installation.A system operating voltage can always overflow the 10% of its standard voltage.Supply of electricity and communications in buildings and other civil engineering works with the objective of limiting the generation and spread of fire and smoke.

EMPLOYMENT

Minimum bending radius per D cable diameter (in mm):
20 x external diam. (mobile installation)
10 x external diam. (fixed installation)

Maximum pulling stress: 50 N/mm2 (during installation)
15 N/mm2 (static stress)

PACKING

100m ring inside Heat Shrink Packaging
500m, 1000m drum.

CORE COLOURS

Multicores: black core with white numbering(OZ) + GreenYellow core (JZ).Colored Cores (OB)+ GreenYellow core (JB)

SHEATH COLOUR

Grey RAL 7001

INK MARKING

GENERAL CAVI Cca-s3,d1,a3 YSLCY HP-JZ 300/500V [n° cond] x [sec.] batch number Batch Data

NOTE

TEMPERATURE RANGE flexing:-5 +70°C
TEMPERATURE fixed installation without mechanical shocks:-40 +80°C
Colour coded cores on request (OB/JB)HD 308

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YSLCY HP -OZ/JZ/OB/JB 300/500V

[D]CPR Cca-s3,d1,a3

Model Product: ------- - 20180212

Tabella / table

	Cond.xSec (N°xmmq)	Outer diameter (mm)	Weight (kg/km)		Cond.xSec (N°xmmq)	Outer diameter (mm)	Weight (kg/km)
Multicores							
-	2x0.50	5.4	41	-	2x1.5	6.7	67
-	3x0.50	5.7	50	-	3x1.5	7	85
-	4x0.50	6.1	59	-	4x1.5	7.9	106
-	5x0.50	6.6	72	-	5x1.5	8.6	130
-	6x0.50	7.1	82	-	6x1.5	9.2	155
-	7x0.50	7.1	85	-	7x1.5	9.2	165
-	8x0.50	8.1	110	-	8x1.5	10.5	215
-	10x0.50	9.1	123	-	10x1.5	12.1	245
-	12x0.50	9.4	138	-	12x1.5	12.5	280
-	14x0.50	10	159	-	14x1.5	13.1	315
-	16x0.50	10.5	175	-	16x1.5	13.8	350
-	18x0.50	11	198	-	18x1.5	14.5	395
-	21x0.50	12.5	230	-	21x1.5	15.6	440
-	25x0.50	13.2	260	-	25x1.5	16.7	510
-	2x0.75	5.8	49	-	2x2.5	7.9	95
-	3x0.75	6.1	60	-	3x2.5	8.4	125
-	4x0.75	6.6	73	-	4x2.5	9.1	155
-	5x0.75	7.2	87	-	5x2.5	10.1	190
-	6x0.75	7.9	104	-	6x2.5	11	230
-	7x0.75	7.9	110	-	7x2.5	11	245
-	8x0.75	8.8	138	-	8x2.5	12.5	290
-	10x0.75	10	155	-	10x2.5	14.1	350
-	12x0.75	10,3	175	-	12x2.5	14.6	405
-	14x0.75	10.8	200	-	14x2.5	15.3	460
-	16x0.75	11.5	220	-	16x2.5	16.1	520
-	18x0.75	12.2	255	-	18x2.5	18.2	570
-	21x0.75	13.6	290	-	21x2.5	19.4	660
-	25x0.75	14.4	325	-	25x2.5	21	770
-	2x1	6.3	56	-	2x4	9	130
-	3x1	6.6	70	-	3x4	9.9	175
-	4x1	7.2	85	-	4x4	10.8	220
-	5x1	8	105	-	5x4	11.7	270
-	6x1	8.7	125	-	2x6	10.5	180

YSLCY HP -OZ/JZ/OB/JB 300/500V

[D]CPR Cca-s3,d1,a3

Model Product: ------- - 20180212

	Cond.xSec (N°xmmq)	Outer diameter (mm)	Weight (kg/km)		Cond.xSec (N°xmmq)	Outer diameter (mm)	Weight (kg/km)
-	7x1	8.7	130	-	3x6	11	240
-	8x1	9.9	170	-	4x6	12.5	310
-	10x1	11	190	-	5x6	13.6	385
-	12x1	11.3	215	-	2x10	13.9	302
-	14x1	12.2	250	-	3x10	14.8	410
-	16x1	12.8	280	-	4x10	16.3	523
-	18x1	13.5	315	-	5x10	17.9	637
-	21x1	15	360	-			
-	25x1	16	410	-			
-	-	-	-	-	-	-	-
-	2x16	16.3	433	-	2x25	19.3	616
-	3x16	17.4	598	-	3x25	20.6	864
-	4x16	19.2	769	-	4x25	23	1128
-	5x16	21.1	941	-	5x25	25.4	1384
-	-	-	-	-	-	-	
-	2x35	20.8	900	-	2x50	24.4	1250
-	3x35	22.5	1200	-	3x50	26.2	1654
-	4x35	24.9	1530	-	4x50	29.3	2127
-	5x35	27.6	1866	-	5x50	33	2641

LSZH - Low Smoke Zero Halogen Version.
LSZH sheath. Same diameters and number of pairs of standard PVC version.
Minimum Order Quantity request.

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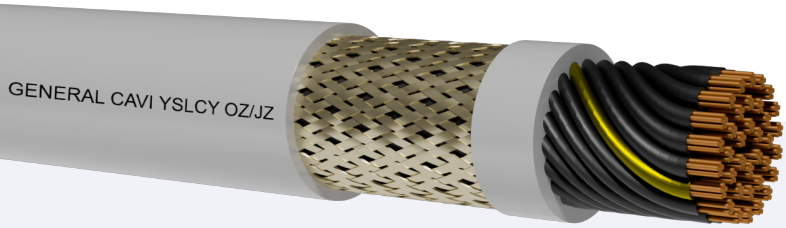
YSLCY-OZ/JZ 300/500V

[D]CPR Eca

Model Product: 290-291-292-293 - 20210324



Class 5 flexible copper conductor.
PVC Insulation in TI2 quality.
Tinned copper wires braid screen (Kf>75%)
PVC sheath in TM2 quality.

STANDARDS

VDE 0472 / IEC 60228 CL.5 VDE 0290; 0290; 0281; 0245; 0293.
EN 50575:2014 + EN 50575/A1:2016

Accordingly to the standards BT 2014/35/UE- 2011/65/EU (RoHS 2)

COMMON FEATURES

Multiconductor oil resistant screened cables suitable for connection to fixed or mobile devices, for signalling and control system.Suitable for indoor enviroment (dry or wet) , and for outdoor enviroment (only for a temporary and protected use). The selected raw materials and small outer dimensions, guarantee a good flexibility, and reduced weight, as well as a safe, economic and fast installation.A system operating voltage can always overflow the 10% of its standard voltage.Supply of electricity and communications in buildings and other civil engineering works with the objective of limiting the generation and spread of fire and smoke.

EMPLOYMENT

Minimum bending radius per D cable diameter (in mm):
20 x external diam. (mobile installation)
10 x external diam. (fixed installation)

Maximum pulling stress: 50 N/mm2 (during installation)
15 N/mm2 (static stress)

PACKING

100m ring inside Heat Shrink Packaging
500m, 1000m drum.

FLEXIBLE, SCREENED, NUMBER CODED, CABLES FOR MEASURING AND CONTROL INSTALLATION.

Nominal voltage U0: 300 V
Nominal voltage U: 500 V
Test voltage: 4000 V
Maximun operating temperature: +70°C
Minimum installation and laying temperature: -5°C
Min. operating temperature (without mechanical shocks): -40°C

CORE COLOURS

Multicores: black core with white numbering(OZ) + GreenYellow core (JZ).

SHEATH COLOUR

Grey RAL 7001

INK MARKING

GENERAL CAVI YSLCY-JZ 300/500V [n° cond] x [sec.] batch number Batch Data

NOTE

TEMPERATURE RANGE flexing:-5 +70°C
TEMPERATURE fixed installation without mechanical shocks:-40 +80°C
Colour coded cores on request (OB/JB)HD 308

YSLCY-OZ/JZ 300/500V

[D]CPR Eca

Model Product: 290-291-292-293 - 20210324

YSLCY OZ_JZ

	Cond.xSec	Outer diameter	Weight		Cond.xSec	Outer diameter	Weight
	(N°xmmq)	(mm)	(kg/km)		(N°xmmq)	(mm)	(kg/km)
Multicores							
-	2x0.50	5.4	41	-	2x1.5	6.7	67
-	3x0.50	5.7	50	-	3x1.5	7	85
-	4x0.50	6.1	59	-	4x1.5	7.9	106
-	5x0.50	6.6	72	-	5x1.5	8.6	130
-	6x0.50	7.1	82	-	6x1.5	9.2	155
-	7x0.50	7.1	85	-	7x1.5	9.2	165
-	8x0.50	8.1	110	-	8x1.5	10.5	215
-	10x0.50	9.1	123	-	10x1.5	12.1	245
-	12x0.50	9.4	138	-	12x1.5	12.5	280
-	14x0.50	10	159	-	14x1.5	13.1	315
-	16x0.50	10.5	175	-	16x1.5	13.8	350
-	18x0.50	11	198	-	18x1.5	14.5	395
-	21x0.50	12.5	230	-	21x1.5	15.6	440
-	25x0.50	13.2	260	-	25x1.5	16.7	510
-	2x0.75	5.8	49	-	2x2.5	7.9	95
-	3x0.75	6.1	60	-	3x2.5	8.4	125
-	4x0.75	6.6	73	-	4x2.5	9.1	155
-	5x0.75	7.2	87	-	5x2.5	10.1	190
-	6x0.75	7.9	104	-	6x2.5	11	230
-	7x0.75	7.9	110	-	7x2.5	11	245
-	8x0.75	8.8	138	-	8x2.5	12.5	290
-	10x0.75	10	155	-	10x2.5	14.1	350
-	12x0.75	10,3	175	-	12x2.5	14.6	405
-	14x0.75	10.8	200	-	14x2.5	15.3	460
-	16x0.75	11.5	220	-	16x2.5	16.1	520
-	18x0.75	12.2	255	-	18x2.5	18.2	570
-	21x0.75	13.6	290	-	21x2.5	19.4	660
-	25x0.75	14.4	325	-	25x2.5	21	770
-	2x1	6.3	56	-	2x4	9	130
-	3x1	6.6	70	-	3x4	9.9	175
-	4x1	7.2	85	-	4x4	10.8	220
-	5x1	8	105	-	5x4	11.7	270
-	6x1	8.7	125	-	2x6	10.5	180
-	7x1	8.7	130	-	3x6	11	240
-	8x1	9.9	170	-	4x6	12.5	310

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Catalogo prodotti da costruzione CPR UE305/2011

YSLCY-OZ/JZ 300/500V

[D]CPR Eca

Model Product: 290-291-292-293 - 20210324

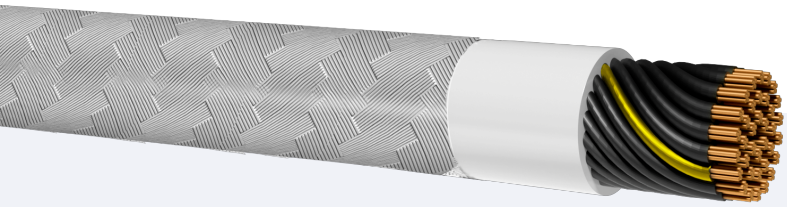
	Cond.xSec (N°xmmq)	Outer diameter (mm)	Weight (kg/km)		Cond.xSec (N°xmmq)	Outer diameter (mm)	Weight (kg/km)
-	10x1	11	190	-	5x6	13.6	385
-	12x1	11.3	215	-	2x10	13.9	302
-	14x1	12.2	250	-	3x10	14.8	410
-	16x1	12.8	280	-	4x10	16.3	523
-	18x1	13.5	315	-	5x10	17.9	637
-	21x1	15	360	-			
-	25x1	16	410	-			
-	-	-	-	-	-	-	-
-	2x16	16.3	433	-	2x25	19.3	616
-	3x16	17.4	598	-	3x25	20.6	864
-	4x16	19.2	769	-	4x25	23	1128
-	5x16	21.1	941	-	5x25	25.4	1384
-	-	-	-	-	-	-	
-	2x35	20.8	900	-	2x50	24.4	1250
-	3x35	22.5	1200	-	3x50	26.2	1654
-	4x35	24.9	1530	-	4x50	29.3	2127
-	5x35	27.6	1866	-	5x50	33	2641

LSZH - Low Smoke Zero Halogen Version.
LSZH sheath. Same diameters and number of pairs of standard PVC version.
Minimum Order Quantity request.

YSLYCY 300/500V

[D] (-OZ) (-JZ) (-OB) (-JB) CPR Eca

Model Product: 290-291-292-293 - 20180212



FLEXIBLE, SCREENED, CABLES FOR MEASURING AND CONTROL INSTALLATION.

Class 5 flexible copper conductor.
PVC Insulation in TI2 quality.
Inner Sheath of PVC TM2 type. Grey.
Tinned copper wires braid screen (Kf>75%)
Outer Sheath of transparent PVC TM2 type.

STANDARDS

VDE 0472 / IEC 60332-1 VDE 0295 / IEC 60228 CL.5 VDE 0290; 0290; 0281; 0245; 0293.
EN 50575:2014 + EN 50575/A1:2016

Accordingly to the standards BT 2014/35/UE- 2011/65/EU (RoHS 2)

Nominal voltage U0: 300 V
Nominal voltage U: 500 V
Test voltage: 4000 V
Maximun operating temperature: +70°C
Minimum installation and laying temperature: -5°C
Min. operating temperature (without mechanical shocks): -40°C

COMMON FEATURES

Multiconductor oil resistant screened cables suitable for connection to fixed or mobile devices, for signalling and control system.Suitable for indoor enviroment (dry or wet) , and for outdoor enviroment (only for a temporary and protected use). The selected raw materials and small outer dimensions, guarantee a good flexibility, and reduced weight, as well as a safe, economic and fast installation.A system operating voltage can always overflow the 10% of its standard voltage.Supply of electricity and communications in buildings and other civil engineering works with the objective of limiting the generation and spread of fire and smoke.

EMPLOYMENT

Minimum bending radius per D cable diameter (in mm):
20x external diam. (mobile installation)
10 x external diam. (fixed installation)

Maximum pulling stress: 50 N/mm2 (during installation)
15 N/mm2 (static stress)

PACKING

100m ring inside Heat Shrink Packaging
500m, 1000m drum.

CORE COLOURS

Multicores: black core with white numbering(OZ) + GreenYellow core (JZ).Colored Cores (OB)+ GreenYellow core (JB)

SHEATH COLOUR

TRASPARENT

INK MARKING

GENERAL CAVI YSLYCY-JZ 300/500V [n° cond] x [sec.] batch number Batch Data

NOTE

TEMPERATURE RANGE flexing:-5 +70°C
TEMPERATURE fixed installation without mechanical shocks:-40 +80°C
Colour coded cores on request (OB/JB)HD 308

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Catalogo prodotti da costruzione CPR UE305/2011

YSLYCY 300/500V

[D] (-OZ) (-JZ) (-OB) (-JB) CPR Eca

Model Product: 290-291-292-293 - 20180212

YSLY_CY OZ_JZ

	Cond.xSec	Outer diameter	Weight		Cond.xSec	Outer diameter	Weight
	(N°xmmq)	(mm)	(kg/km)		(N°xmmq)	(mm)	(kg/km)
Multicores							
-	2x0.50	6.9	67	-	2x1.5	8.5	105
-	3x0.50	7.2	83	-	3x1.5	9.1	124
-	4x0.50	7.8	94	-	4x1.5	10	154
-	5x0.50	8.4	105	-	5x1.5	10.7	185
-	6x0.50	9.5	125	-	6x1.5	11.8	230
-	7x0.50	9.5	136	-	7x1.5	11.8	240
-	8x0.50	10.2	150	-	8x1.5	13	300
-	10x0.50	10.9	170	-	10x1.5	14.5	340
-	12x0.50	11	185	-	12x1.5	14.9	370
-	14x0.50	11.9	223	-	14x1.5	15.5	460
-	16x0.50	12.6	250	-	16x1.5	16.4	500
-	18x0.50	13.1	277	-	18x1.5	18	530
-	21x0.50	14.5	331	-	21x1.5	18.7	690
-	25x0.50	15.7	407	-	25x1.5	20.7	770
-	2x0.75	7.5	77	-	2x2.5	9.7	145
-	3x0.75	7.6	86	-	3x2.5	10.3	173
-	4x0.75	8.1	100	-	4x2.5	11.1	207
-	5x0.75	8.9	120	-	5x2.5	12.3	253
-	6x0.75	9.9	145	-	6x2.5	14.7	365
-	7x0.75	9.9	150	-	7x2.5	14.7	380
-	8x0.75	11.1	221	-	8x2.5	15	390
-	10x0.75	12.2	270	-	10x2.5	17	540
-	12x0.75	12.5	292	-	12x2.5	17.5	580
-	14x0.75	13	315	-	14x2.5	18.2	605
-	16x0.75	13.8	335	-	16x2.5	19	660
-	18x0.75	14.4	350	-	18x2.5	20	720
-	21x0.75	15.8	454	-	21x2.5	22.5	790
-	25x0.75	17.4	508	-	25x2.5	23.5	900
-	2x1	7.2	80	-	2x4	11.6	216
-	3x1	8.1	102	-	3x4	12.3	254
-	4x1	9.3	124	-	4x4	13.7	315
-	5x1	9.7	145	-	5x4	14.6	380
-	6x1	10.1	165	-	2x6	13.5	280
-	7x1	10.1	170	-	3x6	14.1	356
-	8x1	11.6	270	-	4x6	14.5	400

YSLYCY 300/500V

[D] (-OZ) (-JZ) (-OB) (-JB) CPR Eca

Model Product: 290-291-292-293 - 20180212

	Cond.xSec (N°xmmq)	Outer diameter (mm)	Weight (kg/km)		Cond.xSec (N°xmmq)	Outer diameter (mm)	Weight (kg/km)
-	10x1	13	330	-	5x6	16.1	505
-	12x1	13.4	350	-	2x10	13.5	500
-	14x1	13.9	400	-	3x10	14.2	750
-	16x1	14.5	422	-	4x10	15.6	1020
-	18x1	15.4	515	-	5x10	21.6	1115
-	21x1	16.4	560	-			
-	25x1	18.3	689	-			
-	-	-	-	-	-	-	-
-	2x16	18.3	600	-	2x25	21.3	807
-	3x16	19.4	850	-	3x25	22.8	1063
-	4x16	22.6	1380	-	4x25	28.9	1890
-	5x16	35.2	1553	-	5x25	31.8	2270
-	-	-	-	-	-	-	
-	2x35	27.7	1150	-	2x50	33.9	1900
-	3x35	29.5	1400	-	3x50	35.9	2700
-	4x35	32.2	2390	-	4x50	38.2	3315
-	5x35	36.4	2885	-	5x50	43	4150

LSZH - Low Smoke Zero Halogen Version HSLH-CH OZ/JZ/OB/JB
LSZH sheath. Same diameters and number of pairs of standard PVC version.
Minimum Order Quantity request.

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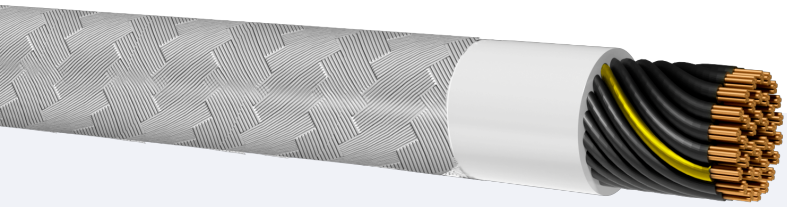
YSLYSY 300/500V

[D](-OZ) (-JZ) (-OB) (-JB) CPR Eca

Model Product: 294-295 - 20210324



Class 5 flexible copper conductor.
PVC Insulation in TI2 quality.
Inner Sheath of PVC TM2 type. Grey.
Armour in galvanized steel wires braid.
Outer Sheath of transparent PVC TM2 type.

STANDARDS

VDE 0472 / IEC 60332-1 VDE 0295 / IEC 60228 CL.5 VDE 0290; 0290; 0281; 0245; 0293.
EN 50575:2014 + EN 50575/A1:2016

Accordingly to the standards BT 2014/35/UE- 2011/65/EU (RoHS 2)

COMMON FEATURES

Multiconductor oil resistant armoured cables suitable for connection to fixed or mobile devices, for signalling and control system.Suitable for indoor enviroment (dry or wet) , and for outdoor enviroment (only for a temporary and protected use). The selected raw materials and small outer dimensions, guarantee a good flexibility, and reduced weight, as well as a safe, economic and fast installation.A system operating voltage can always overflow the 10% of its standard voltage.Supply of electricity and communications in buildings and other civil engineering works with the objective of limiting the generation and spread of fire and smoke.

EMPLOYMENT

Minimum bending radius per D cable diameter (in mm):
20 x external diam. (mobile installation)
10 x external diam. (fixed installation)

Maximum pulling stress: 50 N/mm2 (during installation)
15 N/mm2 (static stress)

PACKING

100m ring inside Heat Shrink Packaging
500m, 1000m drum.

FLEXIBLE, ARMOURED, CABLES FOR MEASURING AND CONTROL INSTALLATION.

Nominal voltage U0: 300 V
Nominal voltage U: 500 V
Test voltage: 4000 V
Maximun operating temperature: +70°C
Minimum installation and laying temperature: -5°C
Min. operating temperature (without mechanical shocks): -40°C

CORE COLOURS

Multicores: black core with white numbering(OZ) + GreenYellow core (JZ).Colored Cores (OB)+ GreenYellow core (JB)

SHEATH COLOUR

TRASPARENT OR GREY RAL 7001

INK MARKING

GENERAL CAVI YSLYSY-JZ 300/500V [n° cond] x [sec.] batch number Batch Data

NOTE

TEMPERATURE RANGE flexing:-5 +70°C
TEMPERATURE fixed installation without mechanical shocks:-40 +80°C
Colour coded cores on request (OB/JB)HD 308

YSLYSY 300/500V

[D](-OZ) (-JZ) (-OB) (-JB) CPR Eca

Model Product: 294-295 - 20210324

YSLY_SY OZ_JZ

	Cond.xSec	Outer diameter	Weight		Cond.xSec	Outer diameter	Weight
	(N°xmmq)	(mm)	(kg/km)		(N°xmmq)	(mm)	(kg/km)
Multicores							
-	2x0.50	7.2	77	-	2x1.5	8.7	115
-	3x0.50	7.4	90	-	3x1.5	9.3	135
-	4x0.50	8	100	-	4x1.5	10.2	170
-	5x0.50	8.6	113	-	5x1.5	10.9	200
-	6x0.50	9.7	135	-	6x1.5	12	245
-	7x0.50	9.7	145	-	7x1.5	12	250
-	8x0.50	10.4	160	-	8x1.5	13.2	315
-	10x0.50	11.1	180	-	10x1.5	14.7	355
-	12x0.50	11.2	195	-	12x1.5	15.1	385
-	14x0.50	12.1	230	-	14x1.5	15.7	475
-	16x0.50	12.8	260	-	16x1.5	16.4	515
-	18x0.50	13.3	287	-	18x1.5	18.2	545
-	21x0.50	14.7	340	-	21x1.5	18.9	705
-	25x0.50	16	420	-	25x1.5	20.9	785
-	2x0.75	7.7	87	-	2x2.5	9.9	160
-	3x0.75	7.8	95	-	3x2.5	10.5	185
-	4x0.75	8.3	110	-	4x2.5	11.3	220
-	5x0.75	9.1	130	-	5x2.5	12.5	270
-	6x0.75	10.1	155	-	6x2.5	14.9	390
-	7x0.75	10.1	160	-	7x2.5	14.9	400
-	8x0.75	11.3	230	-	8x2.5	15.2	405
-	10x0.75	12.4	280	-	10x2.5	17.2	555
-	12x0.75	12.7	300	-	12x2.5	17.7	600
-	14x0.75	13.2	325	-	14x2.5	18.4	620
-	16x0.75	14	345	-	16x2.5	19.2	680
-	18x0.75	14.6	360	-	18x2.5	20.2	740
-	21x0.75	16	465	-	21x2.5	22.7	810
-	25x0.75	17.6	520	-	25x2.5	23.7	920
-	2x1	7.4	90	-	2x4	11.8	230
-	3x1	8.3	110	-	3x4	12.5	254
-	4x1	9.5	135	-	4x4	13.7	315
-	5x1	9.9	155	-	5x4	14.6	380
-	6x1	10.3	175	-	2x6	13.7	300
-	7x1	10.3	180	-	3x6	14.2	370
-	8x1	11.8	280	-	4x6	14.7	420

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YSLYSY 300/500V

[D](-OZ) (-JZ) (-OB) (-JB) CPR Eca

Model Product: 294-295 - 20210324

	Cond.xSec (N°xmmq)	Outer diameter (mm)	Weight (kg/km)		Cond.xSec (N°xmmq)	Outer diameter (mm)	Weight (kg/km)
-	10x1	13.2	340	-	5x6	16.3	520
-	12x1	13.6	350	-	2x10	13.7	520
-	14x1	14.1	415	-	3x10	14.4	770
-	16x1	14.7	435	-	4x10	15.8	1040
-	18x1	15.6	530	-	5x10	21.8	1135
-	21x1	16.6	575	-			
-	25x1	18.3	700	-			
-	-	-	-	-	-	-	-
-	2x16	18.5	620	-	2x25	21.5	820
-	3x16	19.6	870	-	3x25	23	1080
-	4x16	22.8	1400	-	4x25	29.1	1910
-	5x16	25.4	1570	-	5x25	32	2300
-	-	-	-	-	-	-	-
-	2x35	27.9	1170	-	2x50	34.1	1920
-	3x35	29.7	1420	-	3x50	36.1	2720
-	4x35	32.4	2410	-	4x50	38.4	3330
-	5x35	36.6	2900	-	5x50	43.2	4170

LSZH - Low Smoke Zero Halogen Version HSLH-SH OZ/JZOB/JB
LSZH sheath. Same diameters and number of pairs of standard PVC version.
Minimum Order Quantity request.

A-2Y(L)2Y - Telephone Cables HP

[D] CPR Eca

Model Product: GTI - 20180212

Bare copper conductor (Cu), diameter 0,6mm and 0,8mm.
PE(2Y) core insulation . Stranded by star quad (STIII)
Core wrapping with polypropylene tape.
Moisture barrier as laminated PE-coated aluminium tape (L)2Y .
Black PE (2Y) outer jacket.

STANDARDS

VDE 0816
EN 50575:2014 + EN 50575/A1:2016

Accordingly to the standards BT 2014/35/UE- 2011/65/EU (RoHS 2)

COMMON FEATURES

These external subscriber telephone cables are installed as telecommunication connection cable for connecting the telephone extension to the telephone exchange or central offices and as well as for industrial plants. These subscriber connecting cables are suitable for laying in under ground, in cable ducts and cable conduits - and also for indoor-laying. Both sides of PE-copolymere coated aluminium type (L), which is spliced with the outer PE-sheath ensures a barrier against water vapour and diagonally water-proof. Black coloured PE-sheath is UV-resistant. The Polyethelene material(PE 2Y) is halogen-free.Supply of electricity and communications in buildings and other civil engineering works with the objective of limiting the generation and spread of fire and smoke.

EMPLOYMENT

Minimum bending radius per D cable diameter (in mm): 10D

Maximum pulling stress:

Bd telephone-outdoor cable, according to VDE 0816, laminated sheath, unfilled

Nominal voltage U: 225 V

Test voltage: Core/Core 500 V - Core/Screen 2000V

Maximun operating temperature: +70°C Temperature Range -20 +50

Minimum installation and laying temperature: -5°C

Min. operating temperature (without mechanical shocks): -20°C

CORE COLOURS

Multicores: VDE 0816 ST III BD

SHEATH COLOUR

Black

NOTE

LOOP RESISTANCE:
Cond Ø0,6mm:130,0 ohm/Km
Cond Ø0,8mm:73,2 ohm/Km
MUTUAL CAPACITANCE 800Hz, 100% values
Cond Ø0,6mm:52 nF/Km
Cond Ø0,8mm:55 nF/Km
MUTUAL CAPACITANCE 800Hz, 80% values
Cond Ø0,6mm:48 nF/Km
Cond Ø0,8mm:50 nF/Km
CAPACITANCE UNBALACES 800Hz 98% values
K1 :Max. 400pF/300m
K9-12 :Max. 100pF/300m
CAPACITANCE UNBALACES 800Hz 100% values
K1 :Max. 800pF/300m
K9-12 :Max. 300pF/300m

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Catalogo prodotti da costruzione CPR UE305/2011

A-2Y(L)2Y - Telephone Cables HP

[D] CPR Eca

Model Product: GTI - 20180212

FORMATION	Copper weight	DIAMETER	WEIGHT
	(kg(km)	(mm)	(Kg/km)
Multicores			
4 x 2 x 0.6	19,8	9,5	85,65
6 x 2 x 0.6	29,68	10,2	105,82
10 x 2 x 0.6	49,58	11,7	143,11
20 x 2 x 0.6	99,25	15	233,35
30 x 2 x 0.6	148,88	16,5	311,40
40 x 2 x 0.6	198,65	17,5	389,72
50 x 2 x 0.6	248,26	19,6	458,60
70 x 2 x 0.6	347,73	20,5	593,60
100 x 2 x 0.6	492,78	25	827,65
150 x 2 x 0.6	765,03	31	1230,42
200 x 2 x 0.6	1012,89	34,5	1587,04
300 x 2 x 0.6	1512,29	41,5	2289,44
500 x 2 x 0.6	2509,45	53,2	3736,06
800 x 2 x 0.6	4034,32	66	5869,19
2 x 2 x 0.8	17,32	9,5	82,02
4 x 2 x 0.8	34,63	11	115,56
6 x 2 x 0.8	51,91	11,5	143,81
10 x 2 x 0,8	86,63	14	204,63
20 x 2 x 0.8	174,10	17,5	344
30 x 2 x 0.8	260,99	20	464
40 x 2 x 0.8	348,71	22	603
50 x 2 x 0.8	436,22	23,5	723
70 x 2 x 0.8	610,92	27	963
100 x 2 x 0.82	873,73	27	1341
200 x 2 x 0.8	1777,13	42,4	2572,18
500 x 2 x 0.8	4402	69	6303,16

A-2Y(L)2Y - Telephone Cables

[D] CPR Fca

Model Product: 6TS - 20180212

Bare copper conductor (Cu), diameter 0,6mm and 0,8mm.
PE(2Y) core insulation . Stranded by star quad (STIII)
Core wrapping with polypropylene tape.
Moisture barrier as laminated PE-coated aluminium tape (L)2Y .
Black PE (2Y) outer jacket.

STANDARDS

VDE 0816
EN 50575:2014 + EN 50575/A1:2016

Accordingly to the standards BT 2014/35/UE- 2011/65/EU (RoHS 2)

COMMON FEATURES

These external subscriber telephone cables are installed as telecommunication connection cable for connecting the telephone extension to the telephone exchange or central offices and as well as for industrial plants. These subscriber connecting cables are suitable for laying in under ground, in cable ducts and cable conduits - and also for indoor-laying. Both sides of PE-copolymere coated aluminium type (L), which is spliced with the outer PE-sheath ensures a barrier against water vapour and diagonally water-proof. Black coloured PE-sheath is UV-resistant. The Polyethelene material(PE 2Y) is halogen-free.Supply of electricity and communications in buildings and other civil engineering works with the objective of limiting the generation and spread of fire and smoke.

EMPLOYMENT

Minimum bending radius per D cable diameter (in mm): 10D

Maximum pulling stress:

Bd telephone-outdoor cable, according to VDE 0816, laminated sheath, unfilled

Nominal voltage U: 225 V

Test voltage: Core/Core 500 V - Core/Screen 2000V

Maximun operating temperature: +70°C Temperature Range -20 +50

Minimum installation and laying temperature: -5°C

Min. operating temperature (without mechanical shocks): -20°C

CORE COLOURS

Multicores: VDE 0816 ST III BD

SHEATH COLOUR

Black

NOTE

LOOP RESISTANCE:
Cond Ø0,6mm:130,0 ohm/Km
Cond Ø0,8mm:73,2 ohm/Km
MUTUAL CAPACITANCE 800Hz, 100% values
Cond Ø0,6mm:52 nF/Km
Cond Ø0,8mm:55 nF/Km
MUTUAL CAPACITANCE 800Hz, 80% values
Cond Ø0,6mm:48 nF/Km
Cond Ø0,8mm:50 nF/Km
CAPACITANCE UNBALACES 800Hz 98% values
K1 :Max. 400pF/300m
K9-12 :Max. 100pF/300m
CAPACITANCE UNBALACES 800Hz 100% values
K1 :Max. 800pF/300m
K9-12 :Max. 300pF/300m

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A-2Y(L)2Y - Telephone Cables

[D] CPR Fca

Model Product: 6TS - 20180212

FORMATION	Copper weight	DIAMETER	WEIGHT
	(kg(km)	(mm)	(Kg/km)
Multicores			
4 x 2 x 0.6	19,8	9,5	85,65
6 x 2 x 0.6	29,68	10,2	105,82
10 x 2 x 0.6	49,58	11,7	143,11
20 x 2 x 0.6	99,25	15	233,35
30 x 2 x 0.6	148,88	16,5	311,40
40 x 2 x 0.6	198,65	17,5	389,72
50 x 2 x 0.6	248,26	19,6	458,60
70 x 2 x 0.6	347,73	20,5	593,60
100 x 2 x 0.6	492,78	25	827,65
150 x 2 x 0.6	765,03	31	1230,42
200 x 2 x 0.6	1012,89	34,5	1587,04
300 x 2 x 0.6	1512,29	41,5	2289,44
500 x 2 x 0.6	2509,45	53,2	3736,06
800 x 2 x 0.6	4034,32	66	5869,19
2 x 2 x 0.8	17,32	9,5	82,02
4 x 2 x 0.8	34,63	11	115,56
6 x 2 x 0.8	51,91	11,5	143,81
10 x 2 x 0,8	86,63	14	204,63
20 x 2 x 0.8	174,10	17,5	344
30 x 2 x 0.8	260,99	20	464
40 x 2 x 0.8	348,71	22	603
50 x 2 x 0.8	436,22	23,5	723
70 x 2 x 0.8	610,92	27	963
100 x 2 x 0.82	873,73	27	1341
200 x 2 x 0.8	1777,13	42,4	2572,18
500 x 2 x 0.8	4402	69	6303,16

A-2YF(L)2Y Telephone Cables

[D] CPR Fca

Model Product: 6TT - 20241025

TELEPHONE OUTDOOR CABLE, PETROL-JELLY FILLED.

Bare copper conductor (Cu), diameter 0,6mm and 0,8mm.
PE(2Y) core insulation . Stranded by star quad (STIII)
Petrol-Jelly filled (F).
Core wrapping with paper tape.
Moisture barrier as laminated PE-coated aluminium tape (L)2Y .
Black PE (2Y) outer jacket.

STANDARDS

VDE 0816
EN 50575:2014 + EN 50575/A1:2016

Accordingly to the standards BT 2014/35/UE- 2011/65/EU (RoHS 3)

Nominal voltage U: 225 V
Test voltage: Core/Core 500 V - Core/Screen 2000V
Maximun operating temperature: +70°C Temperature Range -20 +50
Minimum installation and laying temperature: -5°C
Min. operating temperature (without mechanical shocks): -20°C

CORE COLOURS

Multicores: VDE 0816 ST III BD

SHEATH COLOUR

Black

INK MARKING

Transfer marking (powder):
Telephone logo + meter

COMMON FEATURES

These external subscriber telephone cables are installed as telecommunications connection cable. These cables are suitable for laying in ducts, conduits or for direct burial installation. This high mechanical resistance and water proof (crosswise and longitudinal) performances are allowed because the cable is made by PE insulated (2Y) conductors and PE (2Y) outer sheath. Moreover on this cable there is an aluminium tape (L) PE coated. All the raw materials are halogen-free.Supply of electricity and communications in buildings and other civil engineering works with the objective of limiting the generation and spread of fire and smoke.

EMPLOYMENT

Minimum bending radius per D cable diameter (in mm): 10D

Maximum pulling stress:

NOTE

LOOP RESISTANCE:
Cond Ø0,6mm:130,0 ohm/Km
Cond Ø0,8mm:73,2 ohm/Km
MUTUAL CAPACITANCE 800Hz, 100% values
Cond Ø0,6mm:52 nF/Km
Cond Ø0,8mm:55 nF/Km
MUTUAL CAPACITANCE 800Hz, 80% values
Cond Ø0,6mm:48 nF/Km
Cond Ø0,8mm:50 nF/Km
CAPACITANCE UNBALACES 800Hz 98% values
K1 :Max. 400pF/300m
K9-12 :Max. 100pF/300m
CAPACITANCE UNBALACES 800Hz 100% values
K1 :Max. 800pF/300m
K9-12 :Max. 300pF/300m

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Catalogo prodotti da costruzione CPR UE305/2011

A-2YF(L)2Y Telephone Cables

[D] CPR Fca

Model Product: 6TT - 20241025

DIAMETER (mm)	WEIGHT (Kg/km)	FORMATION	COPPER WEIGHT (Kg/km)	DIAMETER (mm)	WEIGHT (Kg/km)
Multicores					
-	-	4 x 2 x 0.6	19,85	10,4	109,97
-	-	6 x 2 x 0.6	29,73	10,8	123,88
-	-	10 x 2 x 0.6	49,63	12,6	172,56
-	-	20 x 2 x 0.6	99,25	16,3	290,89
-	-	30 x 2 x 0.6	148,88	18,5	406,41
-	-	40 x 2 x 0.6	198,53	20,9	494,59
-	-	50 x 2 x 0.6	248,26	22,5	603,94
-	-	70 x 2 x 0.6	348,10	25	786,90
-	-	100 x 2 x 0.6	487,50	30	1143,25
-	-	150 x 2 x 0.6	767,69	35	1609,98
-	-	200 x 2 x 0.6	1016,94	41,5	2193,27
-	-	300 x 2 x 0.6	1519,24	50,6	3287,35
-	-	400 x 2 x 0.6	2005,74	57,5	4247,63
-	-	500 x 2 x 0.6	2505,45	64	5313,47
-	-	1000 x 2 x 0.6	5032,91	87,8	10267,38
-	-	2 x 2 x 0.8	17,39	9,5	89,41
-	-	4 x 2 x 0.8	34,82	12	146,04
-	-	6 x 2 x 0.8	52,16	12,5	171,48
-	-	10 x 2 x 0,8	87,51	15	252,85
-	-	20 x 2 x 0.8	174,45	19,5	446,42
-	-	30 x 2 x 0.8	261,86	22,5	614,77
-	-	40 x 2 x 0.8	349,49	25,5	821,10
-	-	50 x 2 x 0.8	437,28	28	987,59
-	-	70 x 2 x 0.8	610,75	31	1282,61
-	-	100 x 2 x 0.8	875,94	37	1842,8
-	-	200 x 2 x 0.8	1784,23	52,4	3651,97
-	-	300 x 2 x 0.8	2665,53	64,2	5404,21
-	-	400 x 2 x 0.8	3547,65	72,2	780,85

A-2YF(L)2Y Telephone Cables HP

[D] CPR Eca

Model Product: GTL - 20180212

Bare copper conductor (Cu), diameter 0,6mm and 0,8mm.
PE(2Y) core insulation . Stranded by star quad (STIII)
Petrol-Jelly filled (F).
Core wrapping with paper tape.
Moisture barrier as laminated PE-coated aluminium tape (L)2Y .
Black PE (2Y) outer jacket.

STANDARDS

VDE 0816
EN 50575:2014 + EN 50575/A1:2016

Accordingly to the standards BT 2014/35/UE- 2011/65/EU (RoHS 2)

COMMON FEATURES

These external subscriber telephone cables are installed as telecommunications connection cable. These cables are suitable for laying in ducts, conduits or for direct burial installation. This high mechanical resistance and water proof (crosswise and longitudinal) performances are allowed because the cable is made by PE insulated (2Y) conductors and PE (2Y) outer sheath. Moreover on this cable there is an aluminium tape (L) PE coated. All the raw materials are halogen-free.Supply of electricity and communications in buildings and other civil engineering works with the objective of limiting the generation and spread of fire and smoke.

EMPLOYMENT

Minimum bending radius per D cable diameter (in mm): 10D

Maximum pulling stress:

TELEPHONE OUTDOOR CABLE, PETROL-JELLY FILLED.

Nominal voltage U: 225 V

Test voltage: Core/Core 500 V - Core/Screen 2000V

Maximun operating temperature: +70°C Temperature Range -20 +50

Minimum installation and laying temperature: -5°C

Min. operating temperature (without mechanical shocks): -20°C

CORE COLOURS

Multicores: VDE 0816 ST III BD

SHEATH COLOUR

Black

INK MARKING

Transfer marking (powder):
Telephone logo + meter

NOTE

LOOP RESISTANCE:
Cond Ø0,6mm:130,0 ohm/Km
Cond Ø0,8mm:73,2 ohm/Km
MUTUAL CAPACITANCE 800Hz, 100% values
Cond Ø0,6mm:52 nF/Km
Cond Ø0,8mm:55 nF/Km
MUTUAL CAPACITANCE 800Hz, 80% values
Cond Ø0,6mm:48 nF/Km
Cond Ø0,8mm:50 nF/Km
CAPACITANCE UNBALACES 800Hz 98% values
K1 :Max. 400pF/300m
K9-12 :Max. 100pF/300m
CAPACITANCE UNBALACES 800Hz 100% values
K1 :Max. 800pF/300m
K9-12 :Max. 300pF/300m

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A-2YF(L)2Y Telephone Cables HP

[D] CPR Eca

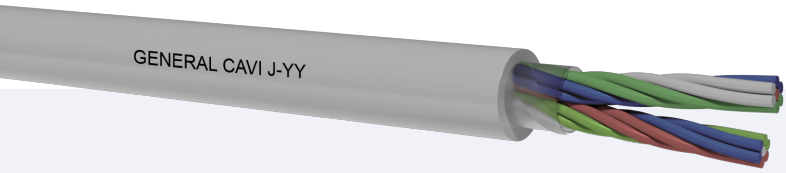
Model Product: GTL - 20180212

DIAMETER (mm)	WEIGHT (Kg/km)	FORMATION	COPPER WEIGHT (Kg/km)	DIAMETER (mm)	WEIGHT (Kg/km)
Multicores					
-	-	4 x 2 x 0.6	19,85	10,4	109,97
-	-	6 x 2 x 0.6	29,73	10,8	123,88
-	-	10 x 2 x 0.6	49,63	12,6	172,56
-	-	20 x 2 x 0.6	99,25	16,3	290,89
-	-	30 x 2 x 0.6	148,88	18,5	406,41
-	-	40 x 2 x 0.6	198,53	20,9	494,59
-	-	50 x 2 x 0.6	248,26	22,5	603,94
-	-	70 x 2 x 0.6	348,10	25	786,90
-	-	100 x 2 x 0.6	487,50	30	1143,25
-	-	150 x 2 x 0.6	767,69	35	1609,98
-	-	200 x 2 x 0.6	1016,94	41,5	2193,27
-	-	300 x 2 x 0.6	1519,24	50,6	3287,35
-	-	400 x 2 x 0.6	2005,74	57,5	4247,63
-	-	500 x 2 x 0.6	2505,45	64	5313,47
-	-	1000 x 2 x 0.6	5032,91	87,8	10267,38
-	-	2 x 2 x 0.8	17,39	9,5	89,41
-	-	4 x 2 x 0.8	34,82	12	146,04
-	-	6 x 2 x 0.8	52,16	12,5	171,48
-	-	10 x 2 x 0,8	87,51	15	252,85
-	-	20 x 2 x 0.8	174,45	19,5	446,42
-	-	30 x 2 x 0.8	261,86	22,5	614,77
-	-	40 x 2 x 0.8	349,49	25,5	821,10
-	-	50 x 2 x 0.8	437,28	28	987,59
-	-	70 x 2 x 0.8	610,75	31	1282,61
-	-	100 x 2 x 0.8	875,94	37	1842,8
-	-	200 x 2 x 0.8	1784,23	52,4	3651,97
-	-	300 x 2 x 0.8	2665,53	64,2	5404,21
-	-	400 x 2 x 0.8	3547,65	72,2	780,85

J-YY Telephon Cables

[D] [SR] CPR Eca

Model Product: GT1 - 20210520



Red copper conductor; D:0,6mm
PVC insulation, VDE 0207
Duplex tape screen + drain wire
PVC Sheath, VDE 207

STANDARDS

DIN VDE 0815
EN 50575:2014 + EN 50575/A1:2016

Telephone cables, VDE standard, PVC insulated.

Nominal voltage U: 300 V

Test voltage: 800 V

Maximun operating temperature: +70°C

Minimum installation and laying temperature: -5°C

Min. operating temperature (without mechanical shocks): -30°C

COMMON FEATURES

J-YY installation cables are preferably used as telephone cables in telephone stations and sub-extensions, suitable for installation in dry and damp environments in, on and under plaster as well as in the open air for fixed installation on outer walls of buildings. Telephone-Installation cables are not allowed for purposes of high current and power installation.

EMPLOYMENT

Minimum bending radius per D cable diameter (in mm):
10 x external diameter.DIN VDE 0891-5

Maximum pulling stress:

PACKING

100m or 250m ring in thermoplastic film or drum to agree.

CORE COLOURS

Multicores: Accordingto DIN VDE 0815

INK MARKING

without marking.

NOTE

MAX LOOP RESISTANCE 0.6mm=130 Ohm/km
Mutual capacitance at 800 < 4 couples Max120 nF/km
Mutual capacitance at 800 Hz> 4couples Max 100 nF/km

Formation	External diameter	Electric resistance at 20°C red copper	Weight
	(mm)	(kg/km)	(kg/km)
Multicores			
2 x 2 x 0.6	4.5	9.79	30
Four cores			
4x 2 x 0.6	6.2	19.65	50
Multicores			
6 x 2 x 0.6	6.5	29.47	64
10 x 2 x 0.6	8.0	48.15	96
20x 2 x 0.6	10.7	98.29	173
30 x 2 x 0.6	12.0	147.19	241

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J-YY Telephon Cables

[D] [SR] CPR Eca

Model Product: GT1 - 20210520

Formation	External diameter	Electric resistance at 20°C red copper	Weight
	(mm)	(kg/km)	(kg/km)
50x 2 x 0.6	15.2	245.73	396
100 x 2 x 0.6	20.8	491.46	756

The external diameters are nominal values of production.

J-Y(St)Y Telephon Cables

[D] [SR] CPR Eca

Model Product: GT1 - 20210521

Red copper conductor;D:0,6 and D:0,8mm
PVC insulation, VDE 0207
Duplex tape screen + drain wire
PVC Sheath, VDE 207

STANDARDS

DIN VDE 0815
EN 50575:2014 + EN 50575/A1:2016

COMMON FEATURES

Cables for telecommunication systems for transmission of data and signals.Supply of electricity and communications in buildings and other civil engineering works with the objective of limiting the generation and spread of fire and smoke.

EMPLOYMENT

Minimum bending radius per D cable diameter (in mm):
10 x external diameter.

Maximum pulling stress:

PACKING

100m or 250m ring in thermoplastic film or drum to agree.

Telephone cables, VDE standard, PVC insulated.

Nominal voltage U: 300 V
Test voltage: 800 V
Maximun operating temperature: +70°C
Minimum installation and laying temperature: -5°C
Min. operating temperature (without mechanical shocks): -30°C

CORE COLOURS

Multicores: Accordingto DIN VDE 0815

INK MARKING

without marking.

NOTE

Max LOOP RESISTANCE
0.6mm=130 Ohm/km
0.8mm= 73.2 Ohm/km
Mutual capacitance at 800 < 4 couples Max120 nF/km
Mutual capacitance at 800 Hz> 4couples Max 100 nF/km

The external diameters are nominal values of production.

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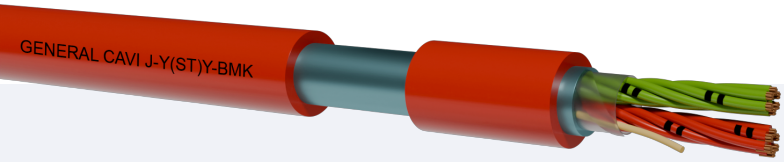
Tabella J-Y(St)Y

Formation	External Diameter	Copper Weight	Weight
(-)	(mm)	(Kg/Km)	(Kg/Km)
Multicores			
1 x 2 x 0,6	4	6,17	24
2 x 2 x 0,6	4,7	10,92	33
3 x 2 x 0,6	5.6	15,84	44
4 x 2 x 0,6	6,7	20,78	53
5 x 2 x 0,6	6,8	25,70	63
6 x 2 x 0,6	7	30,58	70
8 x 2 x 0,6	7,8	40,41	87
10 x 2 x 0,6	8,3	50,27	102
12 x 2 x 0,6	8,8	61,43	118
16 x 2 x 0,6	9,4	81,13	147
20 x 2 x 0,6	11,2	101,57	183
24 x 2 x 0,6	11,4	122,20	210
30 x 2 x 0,6	12,5	150,6	262
40 x 2 x 0,6	14	199,15	332
50 x 2 x 0,6	16,3	248,49	408
60 x 2 x 0,6	17,5	297,75	477
80 x 2 x 0,6	19,1	396,13	627
100 x 2 x 0,6	21	495,52	766
200 x 2 x 0,6	28	999,46	1466
1 x 2 x 0,8	5,4	9,76	37
2 x 2 x 0,8	6	18,40	53
3 x 2 x 0,8	7,5	27,10	74
4 x 2 x 0,8	8,2	35,76	90
5 x 2 x 0,8	8,9	44,42	106
6 x 2 x 0,8	9,8	53,12	124
8 x 2 x 0,8	10,5	70,43	153
10 x 2 x 0,8	11,8	87,79	185
12 x 2 x 0,8	13,2	106,61	230
16 x 2 x 0,8	14	141,11	286
20 x 2 x 0,8	16,4	175,70	351
24 x 2 x 0,8	17	210,16	404
30 x 2 x 0,8	20	262,63	516
40 x 2 x 0,8	20,6	349,21	650
50 x 2 x 0,8	25	436,39	807
100 x 2 x 0,8	33	870,26	1556

J-Y(St)Y BMK

[D] ALARM CABLES CPR Eca

Model Product: GTE - 20210521



Red copper conductor; D:0,8mm
PVC insulation, VDE 0207
Duplex tape screen + drain wire
PVC Sheath, VDE 207

STANDARDS

As Applicable DIN VDE 0815
EN 50575:2014 + EN 50575/A1:2016

Accordingly to the standards BT 2014/35/UE- RoHS: 2002/95/EC

COMMON FEATURES

Alarm system cables.Supply of electricity and communications in buildings and other civil engineering works with the objective of limiting the generation and spread of fire and smoke.

EMPLOYMENT

Minimum bending radius per D cable diameter (in mm):
10 x external diameter.

Maximum pulling stress:

PACKING

100m or 250m ring in thermoplastic film or drum to agree.

Alarm cables,.

Nominal voltage U: 300 V

Test voltage: 800 V

Maximun operating temperature: +70°C

Minimum installation and laying temperature: -5°C

Min. operating temperature (without mechanical shocks): -30°C

CORE COLOURS

Multicores: DIN VDE 0815

INK MARKING

BRANDMELDEKABEL Eca (every 50 cm)

NOTE

Red copper
Up to 4 pairs: max capacitance 120 nF/km
Over to 4 pairs: max capacitance 100 nF/km
Insulation: PVC, VDE 0207 T.2
Screen: Duplex tape + drain wire
Sheath: PVC, VDE 0207 T. Red

Formation	External Diameter	Copper Weight	Weight
	(mm)	(Kg/Km)	(Kg/Km)
Multicores			
1 x 2 x 0,8	5,4	9,76	37
2 x 2 x 0,8	6	18,40	53
3 x 2 x 0,8	7,5	27,09	74
4 x 2 x 0,8	8,2	35,76	90
5 x 2 x 0,8	8,9	44,43	106
6 x 2 x 0,8	9,8	53,12	124
8 x 2 x 0,8	10,5	70,43	153
10 x 2 x 0,8	11,8	87,80	185

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J-Y(St)Y BMK

[D] ALARM CABLES CPR Eca

Model Product: GTE - 20210521

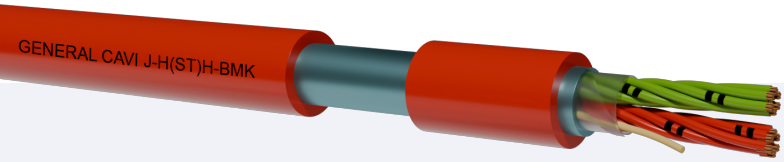
Formation	External Diameter	Copper Weight	Weight
	(mm)	(Kg/Km)	(Kg/Km)
20 x 2 x 0,8	16,4	175,70	351
30 x 2 x 0,8	20	262,63	516
40 x 2 x 0,8	20,6	349,21	650
50 x 2 x 0,8	25	436,34	807
100 x 2 x 0,8	33	870,26	1556

The external diameters are nominal values of production.

J-H(St)H BMK

[D] ALARM CABLES LSZH CPR Eca

Model Product: - 20210521



Red copper conductor; D:0,8mm
LSZH insulation stranded in two-pair groups
Duplex tape screen + drain wire
LSZH sheath.

STANDARDS

As applicable DIN VDE 0815
EN 50575:2014 + EN 50575/A1:2016

Accordingly to the standards BT 2014/35/UE- RoHS: 2002/95/EC

COMMON FEATURES

Alarm system cables.Security systems and alarm cables. Shielded with alluminium/polyester tape with drain wire. Red LSZH sheath (J-H version).Supply of electricity and communications in buildings and other civil engineering works with the objective of limiting the generation and spread of fire and smoke.

EMPLOYMENT

Minimum bending radius per D cable diameter (in mm):
10 x external diameter.

Maximum pulling stress:

PACKING

1100m ring inside Heat Shrink Packaging 500m, 1000m drum.

LSZH FIRE ALARM SYSTEM CABLES

Nominal voltage U: 300 V

Test voltage: 800 V

Maximun operating temperature: +70°C

Minimum installation and laying temperature: -5°C

Min. operating temperature (without mechanical shocks): -30°C

CORE COLOURS

Multicores: DIN VDE 0815

INK MARKING

J-H(St)H BMK Eca

NOTE

Conduttore : Rigid Red copper wires 0,8mm
MAX LOOP RESISTANCE
Mutual capacitance at 800 < 4 couples Max120 nF/km
Mutual capacitance at 800 Hz> 4couples Max 100 nF/km
Insulation: LS0H, VDE 0207 T.2 Screen: Duplex tape + drain wire
Sheath: LS0H, Red RAL 3000

Formation	External Diameter	Copper Weight	Weight
(N° x 2 x Section)	(mm)	(Kg/Km)	(Kg/Km)
Multicores			
1 x 2 x 0,8	5,45	12,97	36
2 x 2 x 0,8	6,6	21,58	56
4 x 2 x 0,8	8,8	38,94	97
6 x 2 x 0,8	9,5	56,31	127
10 x 2 x 0,8	11	91,92	189
20 x 2 x 0,8	16,5	204	422
50 x 2 x 0,8	23,5	438,21	827

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J-H(St)H BMK

[D] ALARM CABLES LSZH CPR Eca

Model Product: - 20210521

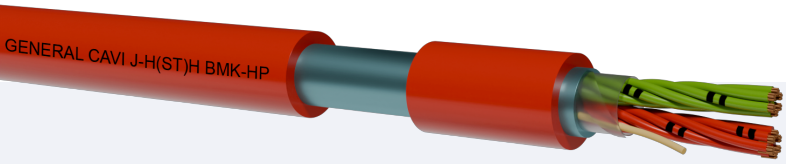
Formation	External Diameter	Copper Weight	Weight
(N° x 2 x Section)	(mm)	(Kg/Km)	(Kg/Km)
62 x 2 x 0,8	27	525,66	1018

The external diameters are nominal values of production.

J-H(St)H BMK HP

[D] ALARM CABLES LSZH CPR Cca-s1, d2, a1

Model Product: 6TZ - 20210809



Red copper conductor; D:0,8mm
LSZH insulation
Duplex tape screen + drain wire
LSZH sheath.

STANDARDS

As applicable DIN VDE 0815
EN 50575:2014 + EN 50575/A1:2016

Accordingly to the standards 2011/65/EU (RoHS 3)

LSZH FIRE ALARM SYSTEM CABLES

Nominal voltage U: 300 V

Test voltage: 800 V

Maximun operating temperature: +70°C

Minimum installation and laying temperature: -5°C

Min. operating temperature (without mechanical shocks): -30°C

CORE COLOURS

Multicores: DIN VDE 0815

INK MARKING

J-H (St) H BMK HP Cca-s1,d2,a1 (every 50 cm)

NOTE

Conduttore : Rigid Red copper wires 0,8mm: 120 nF/km
Screen: Duplex tape + drain wire

COMMON FEATURES

Alarm system cables.Security systems and alarm cables. Shielded with alluminium/polyester tape with drain wire. Red LSZH sheath (J-H version).Supply of electricity and communications in buildings and other civil engineering works with the objective of limiting the generation and spread of fire and smoke.

EMPLOYMENT

Minimum bending radius per D cable diameter (in mm):
10 x external diameter.

Maximum pulling stress:

PACKING

1100m ring inside Heat Shrink Packaging 500m, 1000m drum.

Formation	External Diameter	Copper Weight	Weight	Code
(N° x 2 x Section)	(mm)	(Kg/Km)	(Kg/Km)	
Multicores				
2 x 2 x 0,8	7	21	67	6TE300205
4 x 2 x 0,8	9	41	111	6TE300405

The external diameters are nominal values of production.

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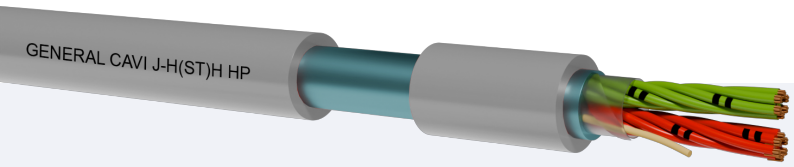
J-H(St)H HP

[D] Telephone Cables CPR Cca-s1, d2, a1

Model Product: 6TV - 20210809



Red copper conductor;D:0,6 and D:0,8mm
LSZH insulation
Duplex tape screen + drain wire
LSZH sheath.

STANDARDS

DIN VDE 0815
EN 50575:2014 + EN 50575/A1:2016

Accordingly to the standards BT 2006/95/EC- 2011/65/EU (RoHS 3)

COMMON FEATURES

Cables for telecommunication systems for transmission of data and signals.Supply of electricity and communications in buildings and other civil engineering works with the objective of limiting the generation and spread of fire and smoke.

EMPLOYMENT

Minimum bending radius per D cable diameter (in mm):
10 x external diameter.

Maximum pulling stress:

PACKING

100m or 250m ring in thermoplastic film or drum to agree.

Telephone cables, VDE standard, LSZH insulated, halogen free.

Nominal voltage U0: 300 V

Nominal voltage U: 300 V

Test voltage: 800 V

Maximun operating temperature: +70°C

Minimum installation and laying temperature: -5°C

Min. operating temperature (without mechanical shocks): -30°C

CORE COLOURS

Multicores: DIN VDE 0815

INK MARKING

J-H(St)H HP Cca-s1, d2, a1(every 50 cm)

NOTE

Conductors: Single Bare copper Wire
Up to 4 pairs: max capacitance 120 nF/km
Over to 4 pairs: max capacitance 100 nF/km
LOOP Resistance:
0.6mm=130 ohm/km
0.8mm=73.2ohm/km
Insulation: LSZH type HI2
Screening: Duplex tape + drain wire
Sheath: LSZH type HM4
Grey RAL 7032

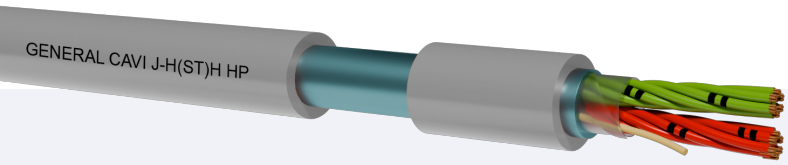
Formation	External Diameter	Copper Weight	Weight
	(mm)	(Kg/Km)	(Kg/Km)
Multicores			
2 x 2 x 0,8	7	21	57
4 x 2 x 0,8	9	41	94

The external diameters are nominal values of production.

J-H(St)H

[D] Telephone Cables CPR Eca

Model Product: GTE - 20210521



Red copper conductor;D:0,6 and D:0,8mm
LSZH insulation stranded in two-pair groups
Duplex tape screen + drain wire
LSZH sheath.

STANDARDS

DIN VDE 0815
EN 50575:2014 + EN 50575/A1:2016

Accordingly to the standards BT 2006/95/EC- 2011/65/EU (RoHS 3)

COMMON FEATURES

Cables for telecommunication systems for transmission of data and signals.Supply of electricity and communications in buildings and other civil engineering works with the objective of limiting the generation and spread of fire and smoke.

EMPLOYMENT

Minimum bending radius per D cable diameter (in mm):
10 x external diameter.

Maximum pulling stress:

PACKING

100m or 250m ring in thermoplastic film or drum to agree.

Telephone cables, VDE standard, LSZH insulated, halogen free.

Nominal voltage U0: 300 V
Nominal voltage U: 300 V
Test voltage: 800 V
Maximun operating temperature: +70°C
Minimum installation and laying temperature: -5°C
Min. operating temperature (without mechanical shocks): -30°C

CORE COLOURS

Multicores: DIN VDE 0815

INK MARKING

H (each 25cm)Eca

NOTE

Conductors: Single Bare copper Wire
Up to 4 pairs: max capacitance 120 nF/km
Over to 4 pairs: max capacitance 100 nF/km
LOOP Resistance:
0.6mm=130 ohm/km
0.8mm=73.2ohm/km
Insulation: LSZH type HI2
Screening: Duplex tape + drain wire
Sheath: LSZH type HM2
Grey RAL 7032

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Tabella J-H(St)H

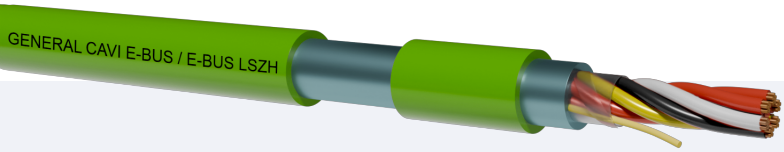
Formation	External Diameter	Copper Weight	Weight
	(mm)	(Kg/Km)	(Kg/Km)
Multicores			
2 x 2 x 0,6	5,2	12,26	39
4 x 2 x 0,6	7,2	22,13	65
6 x 2 x 0,6	7,7	31,92	82
10 X 2 x 0,6	9,7	51,74	122
20 x 2 x 0,6	13	100,93	235
30 x 2 x 0,6	14,9	150,58	312
40 x 2 x 0,6	16,7	199,53	392
50 x 2 x 0,6	17,7	249,06	478
100 x 2 x 0,6	24,2	496,11	923
2 x 2 x 0,8	6	21,58	56
4 x 2 x 0,8	8,8	38,94	97
6 x 2 x 0,8	9,5	56,84	128
10 x 2 x 0,8	11	91,92	189
20 x 2 x 0,8	15,5	177,69	368
30 x 2 x 0,8	20,5	262,98	532
50 x 2 x 0,8	23,5	438,31	827
100 x 2 x 0,8	32,4	872,16	1593

The external diameters are nominal values of production.

E-BUS / E-BUS LSZH

[D] DOMOTICA/ Building Automation CPR Eca

Model Product: GTN-GTO - 20210518



Red copper conductor; D:0,8mm ; 120nF(800 Hz)
PVC insulation o LSZH for BUS H
Duplex tape screen + drain wire
PVC sheath or LSZH sheath

STANDARDS

As applicable DIN VDE 0815
EN 50575:2014 + EN 50575/A1:2016

Accordingly to the standards BT 2014/35/UE- 2011/65/EU (RoHS 2)

BUS SIGNAL COMMUNICATION CABLES FOR BUILDING INTELLIGENT SYSTEM

Nominal voltage U0: 250 V

Nominal voltage U: 250 V

Test voltage: 4000 V

Maximun voltage Um: 250 V *

Maximun operating temperature: +80°C

Minimum installation and laying temperature: -15°C

Min. operating temperature (without mechanical shocks): -30°C

COMMON FEATURES

Data trasmission cable for building automation system. Shielded with alluminium/polyester tape with drain wire .Green PVC sheat (E-BUS) or green LS0H sheath(E-BUS LS0H version)Supply of electricity and communications in buildings and other civil engineering works with the objective of limiting the generation and spread of fire and smoke. EIB-KONNEX applications

EMPLOYMENT

Minimum bending radius per D cable diameter (in mm): 6D

Maximum pulling stress:

PACKING

100 m o 250 m ring inside Heat Shrink Packaging
500 m , 1000 m drum

CORE COLOURS

Multicores: Accordingto DIN VDE 0815

SHEATH COLOUR

Green

INK MARKING

E-BUS : BUSLEITUNG Y(ST)Y 2X2X0.8 (year)Eca
E-BUS LS0H : BUSLEITUNG H(ST)H 2X2X0.8 (year)Eca HALOGENFREE (In 50 cm intervals)

NOTE

LOOP resistance Max
0.8mm = 73.2 ohms / km

TYPE	Formation	Approx external diameter	Approx cable weight
	(Nxmm)	(mm)	(kg/km)
Multicores			
E-BUS	2x2x0.8	5,8	50,00
E-BUS LSZH	2x2x0.8	6	52,23

The exsternal diameters are nominal values of production

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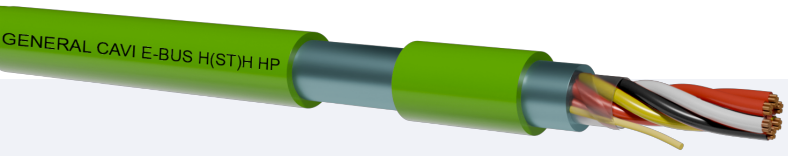
EIB/KNX E-BUS LSZH H(ST)H HP

[D] DOMOTICA/ Building Automation CPR Cca-s1, d2, a1

Model Product: 6TU - 20240917



Red copper conductor; D:0,8mm
LSZH insulation
Duplex tape screen + drain wire
LSZH sheath.

STANDARDS

As applicable DIN VDE 0815
EN 50575:2014 + EN 50575/A1:2016

Accordingly to the standards 2011/65/EU (RoHS 3)

BUS SIGNAL COMMUNICATION LSZH CABLES FOR BUILDING INTELLIGENT SYSTEM

Nominal voltage U0: 250 V

Nominal voltage U: 250 V

Test voltage: 4000 V

Maximun voltage Um: 250 V *

Maximun operating temperature: +80°C

Minimum installation and laying temperature: -15°C

Min. operating temperature (without mechanical shocks): -30°C

COMMON FEATURES

Data trasmission cable for building automation system. Shielded with alluminium/polyester tape with drain wire .Supply of electricity and communications in buildings and other civil engineering works with the objective of limiting the generation and spread of fire and smoke.
EIB-KONNEX applications

EMPLOYMENT

Minimum bending radius per D cable diameter (in mm): 6D

Maximum pulling stress:

PACKING

100 m o 250 m ring inside Heat Shrink Packaging
500 m , 1000 m drum

CORE COLOURS

Multicores: Accordingto DIN VDE 0815

SHEATH COLOUR

Green

INK MARKING

GENERAL CAVI E-BUS LSZH REF EIB/KNX BUSLEITUNG H(ST)H HP 2X2X0.8 Cca-s1, d2, a1 (year) HALOGENFREE (In 50 cm intervals)

NOTE

LOOP resistance Max
0.8mm = 73.2 ohms / km

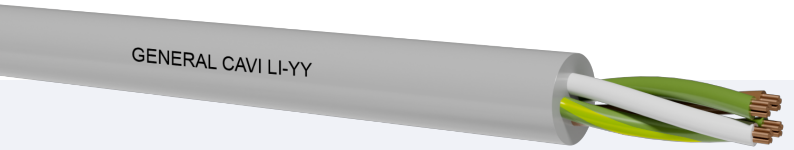
TYPE	Formation	Approx external diameter	Approx cable weight
	(Nxmm)	(mm)	(kg/km)
Multicores			
E-B LSZH HP	2x2x0.8	6,25	57,49

The exsternal diameters are nominal values of production

Li-YY

[D][BE]

Model Product: 219 - 20230830



Class 5 flexible copper conductor.
PVC Insulation in TI2 quality.
Assembling with polyester tape
PVC sheath in TM2 quality.

STANDARDS

VDE 0472 / VDE 0295 / VDE 0290
VDE 0281 / VDE 0245 / EIA RS 485
IEC 60332

Accordingly to the standards BT 2014/35/UE- 2011/65/EU (RoHS 2)

COMMON FEATURES

Data system connection, monitoring, signalling and control

EMPLOYMENT

Minimum bending radius per D cable diameter (in mm):
Minimum bending radius: 20 x external diameter (mobile installation).
10 x external diameter (fixed installation)

Maximum pulling stress:

PACKING

100m rings in thermoplastic film.
Drums 500 mt 1000 mt.

FLEXIBLE SIGNALLING and CONTROL TWISTED PAIR CABLES FOR FIXED INSTALLATIONS WITH PVC INSULATION, AND EXTERNAL SHEATH IN PVC

Nominal voltage U0: 250 V

Nominal voltage U: 250 V

Test voltage: 2000 V

Minimum installation and laying temperature: +5°C

Min. operating temperature (without mechanical shocks): -10°C

CORE COLOURS

Multicores: According to Tab. DIN47100.

SHEATH COLOUR

Grey RAL 7001.

INK MARKING

GENERAL CAVI LiYY - form x sect. - CEI 20 22II
[inner work order] [week/year] [progressive length]

NOTE

TEMPERATURE RANGE flexing:-5 +70°C
TEMPERATURE fixed installation without mechanical shocks:-40 +80°C
LSZH - Low Smoke Zero Halogen VERSION
Li-HH LSZH
insulation and sheath. Same section and number of conductor of standard PVC version. Minimum Order Quantity request.

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Li-YY
[D][BE]
Model Product: 219 - 20230830

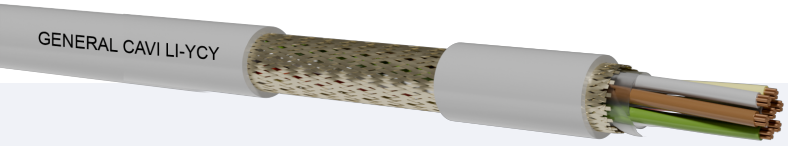
Nominal Section	Conductor Number	Approx external production diameter	Approx cable weight	Nominal cross section	Conductor Number	Approx external diameter	Approx cable weight
(mmq)	(N°)	(mm)	(kg/km)	(mmq)	(N°)	(mm)	(kg/km)
Multicores							
0.25	2	4	22	0.50	2	4.9	34
0.25	3	4.2	26	0.50	3	5.2	41
0.25	4	4.5	30	0.50	4	5.6	49
0.25	5	4.9	38	0.50	5	6.1	60
0.25	6	5.3	43	0.50	6	6.7	69
0.25	7	5.3	44	0.50	7	6.7	74
o.25	8	5.9	58	0.50	8	7.6	95
0.25	10	6.6	60	0.50	10	8.6	105
0.25	12	6.8	68	0.50	12	8.9	120
0.34	2	4.6	29	0.75	2	5.3	42
0.34	3	4.9	35	0.75	3	5.6	51
0.34	4	5.3	41	0.75	4	6.1	62
0.34	5	5.7	51	0.75	5	6.7	75
0.34	6	6.2	58	0.75	6	7.5	90
0.34	7	6.2	61	0.75	7	7.5	98
0.34	8	7.1	80	0.75	8	8.3	118
0.34	10	8.0	87	0.75	10	9.6	139
0.34	12	8.3	99	0.75	12	9.9	159

Outer diameters are approximates and<they can have variations of max +/- 3%.
Section 0,14mmq available only on request.

Li-YcY

[D]EMC

Model Product: 212 - 20230830



CE

Class 5 flexible copper conductor.
PVC Insulation in TI2 quality.
Assembling with polyester tape
Tinned copper wires braid screen (Kf>85%)
PVC sheath in TM2 quality.

STANDARDS

VDE 0472 / VDE 0295 / VDE 0290
VDE 0281 / VDE 0245 / EIA RS 232
IEC 60332

Accordingly to the standards BT 2014/35/UE- 2011/65/EU (RoHS 2)

FLEXIBLE SIGNALLING and CONTROL TWISTED PAIR CABLES FOR FIXED INSTALLATIONS
WITH PVC INSULATION, TINNED COPPER WIRES BRAID SCREEN AND EXTERNAL SHEATH IN PVC

Nominal voltage U0: 250 V (s.0.25-0.35) 300V (s.0.50-0.75) 450V (s.1.00)
Nominal voltage U: 250 V (s.0.25-0.35) 500V (s.0.50-0.75) 750V (s.1.00)
Test voltage: 1500 V (s.0.25-0.35) 2000V (s.0.50-0.75) 2500V (s.1.00)
Maximun voltage Um: 275 V (s.0.25-0.35) 550V (s.0.50-0.75) 835V (s.1.00)
Maximun operating temperature: +70°C
Minimum installation and laying temperature: +5°C
Min. operating temperature (without mechanical shocks): -10°C

COMMON FEATURES

Data system connection, monitoring, signalling and control Adapt for EIA RS 232 connection.

EMPLOYMENT

Minimum bending radius per D cable diameter (in mm):
Minimum bending radius: 20 x external diameter (mobile installation).
10 x external diameter (fixed installation)

Maximum pulling stress:

PACKING

100m rings in thermoplastic film.
Drums 500m and 1000m.

CORE COLOURS

Multicores: According to Tab. DIN47100.

SHEATH COLOUR

Grey RAL 7001.

INK MARKING

GENERAL CAVI LiYcY - form x sect. - CEI 20 22II
[inner work order] [week/year] [progressive length]

NOTE

TEMPERATURE RANGE flexing:-5 +70°C
TEMPERATURE fixed installation without mechanical shocks:-40 +80°C
LSZH - Low Smoke Zero Halogen VERSION Li-HcH LSZH insulation and sheath. Same section and number of conductor of standard PVC version.
Minimum Order Quantity request.

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Li-YcY

[D]EMC

Model Product: 212 - 20230830

Conductor Numberxsec	Approx external production diameter	Approx cable weight	Conductor Numberxsec	Approx external diameter	Approx cable weight
(N°xmmq)	(mm)	(kg/km)	(N°x mmq)	(mm)	(kg/km)
Multicores					
.2x0.25	4.5	29	2x0.75	5.9	49
.3x0.25	4.7	34	3x0.75	6.2	59
.4x0.25	5.0	39	4x0.75	6.7	74
.5x0.25	5.4	45	5x0.75	7.3	86
.7x0.25	5.9	54	6x0.75	8.1	104
.10x0.25	7.1	73	7x0.75	8.0	110
.12x0.25	7.2	55	8x0.75	9.0	125
.14x0.25	8.1	75	10x0.75	10.3	166
.16x0.25	9.0	98	12x0.75	10.6	185
.18x0.25	9.9	110	16x0.75	11.7	234
.21x0.25	10.5	140	18x0.75	12.4	242
.24x0.25	11.2	150	21x0.75	14.0	271
.2x0.34	5.1	29	24x0.75	14.5	337
.3x0.34	5.3	33	2x1	6.3	55
.4x0.34	5.8	38	3x1	6.6	71
.5x0.34	6.2	56	4x1	7.2	86
.7x0.34	6.8	74	5x1	8.0	107
.10x0.34	8.5	99	7x1	8.8	133
.12x0.34	8.7	115	10x1	11.1	195
.14x0.34	9.2	130	12x1	11.4	222
.16x0.34	9.9	148	14x1	12.4	240
.18x0.34	10.4	164	16x1	13.0	265
.21x0.34	10.9	180	18x1	13.7	293
.24x0.34	12.3	200	21x1	14.4	332
.1x0.50	3.6	25	24x1	15.9	376
.2x0.50	5.5	42	2x1.5	7.7	82
.3x0.50	5.8	50	3x1.5	8.1	104
.4x050	6.2	59	4x1.5	8.9	131
.5x0.50	6.8	71	5x1.5	9.9	160
.7x0.50	7.2	85	7x1.5	9.4	170
.10x0.50	9.3	127	8x1.5	12.2	240
.12x0.50	9.6	143	10x1.5	13.7	289
.14x0.50	10.2	166	12x1.5	14.1	332
.16x0.50	10.8	183	16x1.5	14.5	334
.18x0.50	11.1	195	18x1.5	14.7	370

Li-YcY

[D]EMC

Model Product: 212 - 20230830

Conductor Numberxsec	Approx external production diameter	Approx cable weight	Conductor Numberxsec	Approx external diameter	Approx cable weight
(N°xmmq)	(mm)	(kg/km)	(N°x mmq)	(mm)	(kg/km)
.21x0.50	11.7	215	21x1.5	15.4	422
.24x0.50	13.3	265	24x1.5	17.1	480
-	-	-	2x2.5	8.7	111
-	-	-	3x2.5	9.2	144
-	-	-	4x2.5	10.3	184
-	-	-	5x2.5	11.2	222
-	-	-	7x2.5	12.4	265
-	-	-	12x2.5	16.2	474
-	-	-	18x2.5	17.2	551

Outer diameters are approximates and<they can have variations of max +/- 3%. Section 0,14mmq available only on request.

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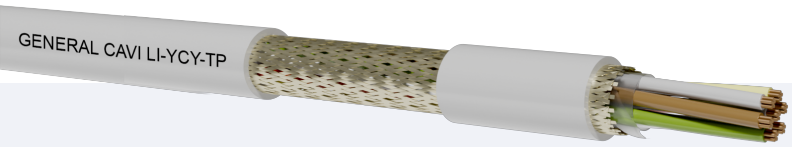
Li-YcY-TP

[D]

Model Product: 212 - 20230830



FLEXIBLE SIGNALLING and CONTROL TWISTED PAIR CABLES FOR FIXED INSTALLATIONS
WITH PVC INSULATION, TINNED COPPER WIRES BRAID SCREEN AND EXTERNAL SHEATH IN PVC

Class 5 flexible copper conductor.
PVC Insulation in TI2 quality.
Assembling with polyester tape
Tinned copper wires braid screen (Kf>85%)
PVC sheath in TM2 quality.

STANDARDS

VDE 0472 / VDE 0295 / VDE 0290
VDE 0281 / VDE 0245 / EIA RS 485
IEC 60332

Accordingly to the standards BT 2014/35/UE- 2011/65/EU (RoHS 2)

Nominal voltage U0: 250 V	
Nominal voltage U: 250 V	
Test voltage: 2000 V	per sezione 0,14 1200V
Minimum installation and laying temperature: +5°C	
Min. operating temperature (without mechanical shocks): -10°C	

CORE COLOURS

Multicores: According to Tab. DIN47100.

SHEATH COLOUR

Grey RAL 7001.

INK MARKING

GENERAL CAVI LiYcY - form x 2 x sect. - CEI 20 22II
[inner work order] [week/year] [progressive length]

COMMON FEATURES

Data system connection, monitoring, signalling and control Adapt for EIA RS 485 connection.

EMPLOYMENT

Minimum bending radius per D cable diameter (in mm):
Minimum bending radius: 20 x external diameter (mobile installation).
10 x external diameter (fixed installation)

Maximum pulling stress:

PACKING

100m rings in thermoplastic film.
Drums to agree.

Li-YcY-TP

[D]

Model Product: 212 - 20230830

Nominal Section	Pairs number	Approx external production diameter	Approx cable weight	Nominal cross section	pairs number	Approx external diameter	Approx cable weight
(mmq)	(N°)	(mm)	(kg/km)	(mmq)	(N°)	(mm)	(kg/km)
Multicores							
0.25	2	6.3	42	0.50	2	7.3	60.3
0.25	3	7.3	54.3	0.50	3	8.6	79.8
0.25	4	7.9	62.8	0.50	4	9.6	112
0.25	5	8.6	76.1	0.50	5	10.6	130
0.25	6	8.8	87	0.50	6	11.6	148
0.25	7	9.3	104	0.50	8	13.9	176.8
0.34	2	7.2	55	0.75	2	7.8	73.6
0.34	3	8.1	75	0.75	3	9.4	105
0.34	4	9.0	98	0.75	4	10.3	140
0.34	5	9.9	110	0.75	5	11.7	160
0.34	7	10.5	140	0.75	8	13.1	220
0.34	8	11.2	150	-	-	-	-

Outer diameters are approximates and<they can have variations of max +/- 3%.
Section 0,14mmq available only on request.

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YR

Model Product: - 20180326

Rigid class 1 red copper conductor.
PVC insulation,NEN 1597 standard core colors
White , fire-retardant PVC sheath

STANDARDS

SOLID SIGNALLING CABLES

Maximun voltage Um: 150V

Maximun operating temperature: +50°C installazione +70°C dopo installazione

Minimum installation and laying temperature: -5°C

Min. operating temperature (without mechanical shocks): -15°C

COMMON FEATURES

cable for signal application in low voltage application

EMPLOYMENT

Minimum bending radius per D cable diameter (in mm):
10 x external diameter

Maximum pulling stress:

CORE COLOURS

Multicores: NEN 1597

SHEATH COLOUR

White

NOTE

Max Breakdown Voltage 0.8kV
Min.Insulation Resistence 100 MOhm/km

Cond.xSec (N°xmmq)	Max exsternal production diameter (mm)	Approx cable weight (kg/km)	Colori	Colors
Two cores				
2x0.8	4.7	22.6	Bianco,Nero	White,Black
Three cores				
3x0.8	4.75	29.5	Bianco,Rosso,Nero	White,Red,Black
Four cores				
4x0.8	5.3	37.2	Bianco,Rosso,Nero,Giallo	White,Red,Black,Yellow
Multicores				
6x0.8	6.2	54.3	Bianco,Rosso,Nero,Giallo,marrone , Verde	White,Red,Black,Yellow,Brown,Green
8x0.8	6.7	68.3	Bianco,Rosso,Nero,Giallo,marrone , Verde,Grigio,Blu	White,Red,Black,Yellow,Brown,Green, Gray,Blue,
10x0.8	7.9	90.1	Bianco,Rosso,Nero,Giallo,marrone , Verde,Grigio,Blu,Trasparente,Viola	White,Red,Black,Yellow,Brown,Green, Gray,Blue,Transparent,violet
12x0.8	8.3	107.9	Bianco,Rosso,Nero,Giallo,marrone , Verde,Grigio,Blu,Trasparente,Viola, Arancio,Rosa	White,Red,Black,Yellow,Brown,Green, Gray,Blue,Transparent,violet,orange, Pink
16x0.8	9.7	128.2	Bianco,Rosso,Nero,Giallo,marrone , Verde,Grigio,Blu,Trasparente,Viola, Arancio/Rosa,Grigio/rosa,Rosso/blu, Bianco/Verde,Marrone/Verde	White,Red,Black,Yellow,Brown,Green, Gray,Blue,Transparent,violet, orange/Pink,Gray/Pink,Red/Blue, White/Green,Brown/Green

esternal diameteres are nominal values of production

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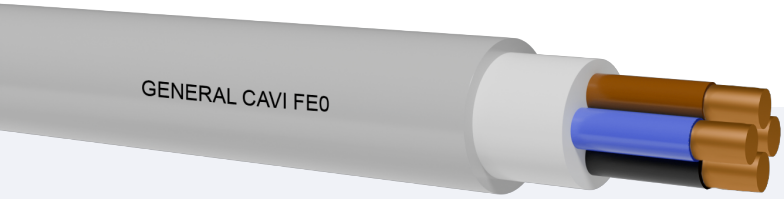
FE0 600/1000V

[CH]CPR Dca-s2,d2,a2

Model Product: B83-B84 - 20180212



Rigid class 1 and class 2 red copper conductor.
XLPE Crosslinked polyethylene insulation, 2XI1
Not fibrous and not hygroscopic filler
LSZH thermoplastic sheath, HM2.

STANDARDS

DIN VDE 0250-214 DIN VDE 0207 DIN VDE 0472
EN 50575:2014 + EN 50575/A1:2016

Accordingly to the standards BT 2014/35/UE- 2011/65/EU (RoHS 2)

COMMON FEATURES

Halogen-free plastic sheathed cable with enhanced characteristics in case of fire, used for applications where harm to human life and damage to property must be prevented in the event of fire, e.g. industrial installations, communal establishment, hotels, airports, underground stations, railway stations, hospitals, departmental stores, banks, schools, theaters, multi storey buildings, process control centres. Suitable for installation in dry, damp or wet environments, for installation above and below plaster as well as masonry walls and in concrete, nevertheless not suitable for direct use in compacted or tamped concrete. Also suitable for outdoor applications.Supply of electricity and communications in buildings and other civil engineering works with the objective of limiting the generation and spread of fire and smoke.

EMPLOYMENT

Minimum bending radius per D cable diameter (in mm):
Normal use = 4D <8 - 5D <12 - 6D >12
Accurate bending close to the terminal = 2D <8 - 3D <12 - 4D >12

Maximum pulling stress: 50 N/mmq

PACKING

100mt. rings in thermoplastic film or drums to agree.

XLPE INSULATED CABLES OF RATED VOLTAGES UP TO 600/1000V WITH CROSSLINKED POLYMER AND L.S.0.H.

Nominal voltage U0: 600 V
Nominal voltage U: 1000 V
Maximun operating temperature: +90°C
Maximun short circuit temperature: +250°C
Minimum installation and laying temperature: +5°C
Min. operating temperature (without mechanical shocks): -25°C

CORE COLOURS

Single core: black

Two cores: blue-brown

Three cores: Y/G-blue-brown

Four cores: Y/G-brown-black-grey

Five cores: Y/G-blue-brown-black-grey

SHEATH COLOUR

Grey

INK MARKING

GENERAL CAVI Dca-s2,d2,a2 FE0 600/1000V n° x sect year

FE0 600/1000V

[CH]CPR Dca-s2,d2,a2

Model Product: B83-B84 - 20180212

Cores number	Cross section	Insulation medium thickness	Sheath medium thickness	Approx external production diameter		Approx cable weight	Electric resistance at 20°C	Heat index	Max short circuit current
				min	max				
(N°)	(mm²)	(mm)	(mm)	(mm)	(mm)	(kg/km)	(Ohm/km)	(kWh/m)	(kA)
Single core									
1x	4RE	0.6	1.4	6.0	10.0	80	4.61	0.42	0.46
1x	6RE	0.6	1.4	6.4	10.5	100	3.08	0.44	0.69
1x	10RM	0.7	1.4	7.4	12.0	150	1.83	0.53	1.15
1x	16RM	0.7	1.4	8.6	13.5	210	1.15	0.64	1.84
1x	25RM	0.9	1.6	9.5	14.5	320	0.727	-	-
1x	35RM	0.9	1.6	12.0	15.0	410	0.524	-	-
1x	50RM	1.0	1.6	13.5	16.2	530	0.387	-	-
1x	70RM	1.1	1.6	15.1	17.5	750	0.268	-	-
1x	95RM	1.1	1.6	17.3	19.1	1050	0.193	-	-
1x	120RM	1.2	1.6	19.0	21.5	1300	0.153	-	-
1x	150RM	1.4	1.8	21.3	23.8	1600	0.124	-	-
1x	185RM	1.6	1.8	24.0	26.0	2000	0.0991	-	-
1x	240RM	1.7	1.8	26.9	29.0	2500	0.0754	-	-
1x	300RM	1.8	2.0	29.8	31.5	3100	0.0601	-	-
1x	400RM	2.0	2.0	34.0	37.0	3900	0.0470	-	-
1x	500RM	2.2	2.2	37.2	39.5	5000	0.0366	-	-
Two cores									
2x	1.5RE	0.5	1.4	8.0	9.4	120	12.1	0.36	0.17
2x	2.5RE	0.5	1.4	8.8	10.5	150	7.41	0.42	0.29
2x	4RE	0.6	1.4	10.0	12.0	280	4.61	0.56	0.46
2x	6RE	0.6	1.4	13.0	15.0	430	3.08	-	-
2x	10RM	0.7	1.8	15.6	17.8	600	1.83	-	-
2x	16RM	0.7	1.8	17.0	19.5	930	1.15	-	-
2x	25RM	0.9	1.8	21.2	23.8	1200	0.727	-	-
2x	35RM	0.9	1.8	23.3	29.9	1600	0.524	-	-
Three cores									
3x	1.5RE	0.5	1.4	8.4	9.8	133	12.1	0.42	0.17
3x	2.5RE	0.5	1.4	9.3	11.0	176	7.41	0.47	0.26
3x	4RE	0.6	1.4	10.5	12.5	247	4.61	0.61	0.46
3x	6RE	0.6	1.6	12.0	14.0	335	3.08	0.78	0.69
3x	10RM	0.7	1.6	14.5	16.5	496	1.83	1.1	1.15
3x	16RM	0.7	1.8	18.5	20.5	770	1.15	-	-
3x	25RM	0.9	1.8	22.2	25.9	1200	0.727	-	-
3x	35RM	0.9	1.8	25.0	27.9	1500	0.524	-	-
Four cores									

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FE0 600/1000V

[CH]CPR Dca-s2,d2,a2

Model Product: B83-B84 - 20180212

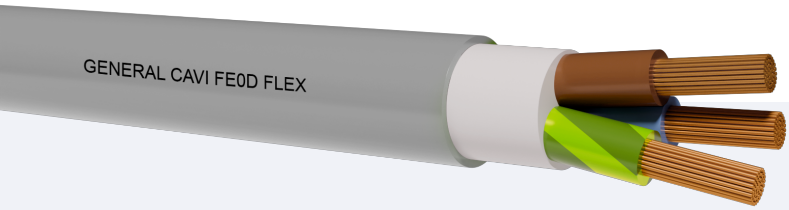
Cores number	Cross section	Insulation medium thickness	Sheath medium thickness	Approx external production diameter		Approx cable weight	Electric resistance at 20°C	Heat index	Max short circuit current
				min	max				
(N°)	(mm²)	(mm)	(mm)	(mm)	(mm)	(kg/km)	(Ohm/km)	(kWh/m)	(kA)
4x	1.5RE	0.5	1.4	9.0	10.5	142	12.1	0.47	0.17
4x	2.5RE	0.5	1.4	10.0	11.5	188	7.41	0.56	0.29
4x	4RE	0.6	1.6	12.0	14.0	279	4.61	0.78	0.46
4x	6RE	0.6	1.6	12.5	15.5	371	1.83	1.3	1.15
4x	10RM	0.7	1.6	15.5	18.0	569	1.83	1.3	1.15
4x	16RM	0.7	1.6	19.0	22.5	849	1.15	1.8	1.84
4x	25RM	0.9	1.8	23.5	28.0	1298	0.73	2.6	2.88
4x	35RM	0.9	1.8	26.5	31.0	1731	0.52	3.1	4.02
Five cores									
5x	1.5RE	0.5	1.4	9.6	11.5	183	12.1	0.56	0.17
5x	2.5RE	0.5	1.4	10.5	12.5	249	7.41	0.64	0.29
5x	4RE	0.6	1.6	13.0	15.5	370	4.61	0.98	0.46
5x	6RE	0.6	1.6	14.5	16.5	488	3.08	1.1	0.69
5x	10RM	0.7	1.6	17.0	19.5	739	1.83	1.5	1.15
5x	16RM	0.7	1.8	21.0	25.0	1200	1.15	2.2	1.84
5x	25RM	0.9	1.8	25.5	30.5	1800	0.73	3.1	2.88
5x	35RM	0.9	1.8	30.2	32.9	2300	0.524	3.1	4.02

RE=rigid single wire conductor class 1
RM=rigid stranded multiwires conductor class 2

FE0D-FLEX 0,6/1 kV

(CH) CPR Dca-s2,d2,a2

Model Product: --- - 20240207



Class 5 flexible copper conductor.
Special synthetic insulation
Not fibrous and not hygroscopic filler
Thermoplastic LS0H

STANDARDS

CEI 20-13 PQA (CEI 20-38 PQA)
EN 50575:2014 + EN 50575/A1:2016(IEC 61034 - IEC 60754-1-IEC 60754-2 -IEC 60332-1-2)

Accordingly to the standards BT 2014/35/UE- 2011/65/EU (RoHS 3)

POWER CABLES INSULATED HIGH QUALITY HEPR NOT PROPAGATING FIRE, HALOGEN FREE AND WITH LOW EMISSION OF SMOKES, TOXIC AND CORROSIVE GASES

Nominal voltage U0: 600 V
Nominal voltage U: 1000 V
Test voltage: 4000 V
Maximun voltage Um: 1200 V
Maximun operating temperature: 90°C
Maximun short circuit temperature for sections up to 240mm²: +250°C
Maximun short circuit temperature for sections over 240mm²: +220°C
Minimum installation and laying temperature: 0°C
Min. operating temperature (without mechanical shocks): -40°C

COMMON FEATURES

For electrical power system in constructions and other civil engineering buildings,in order to limit fire and smoke production and spread,in accordance with the CPR.
Power and control use outdoor and indoor applications, even wet. Suitable for fixed installations at open air, in tube or canals, masonry, metals structures, overhead wire and for direct or indirect underground wiring. The most important property of this kind of cable is its protection against smokes, toxic and corrosive gases in case of fire.

EMPLOYMENT

Minimum bending radius per D cable diameter (in mm):
Power flexible cables, class 5 = 4D
Control flexible cables, class 5 = 6D

Maximum pulling stress: During installation= 50 N/mm²
Static stress = 15 N/mm²

PACKING

Drums to agree.

CORE COLOURS

Single core: Black

Two cores: blue-brown

Three cores: brown-black-gray (or blue-brown-Y/G)

Four cores: blue-brown-black-gray (or Y/G instead blue)

Five cores: Y/G-blue-brown-black-gray (or black instead Y/G)

Multicores: black with numbers

SHEATH COLOUR

Grey

INK MARKING

GENERALCAVI - Dca-s2,d2,a2 FE0D-FLEX 0,6/1 kV - form x sect. - inner work order - progressive lenght

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FEOD-FLEX 0,6/1 kV

(CH) CPR Dca-s2,d2,a2

Model Product: --- - 20240207

Cores number	Cross section	Approx conductor diameter	Insulation medium thickness	Approx external production diameter	Approx cable weight	Electric resistance at 20°C	Current carrying capacities		
							30°C in air	30° In air or pipe	20°C In ground
(N°)	(mm²)	(mm)	(mm)	(mm)	(kg/km)	(Ohm/km)	(A)	(A)	(A)
Single core									
1x	6.0	3.4	0.7	7.70	100	3.30	58	48	44
1x	10	4.4	0.7	8.70	148	1.91	80	66	59
1x	16	5.7	0.7	9.59	206	1.21	107	88	77
1x	25	6.9	0.9	11.46	295	0.78	135	117	100
1x	35	8.1	0.9	12.50	389	0.554	169	144	121
1x	50	9.8	1.0	14.50	542	0.386	207	175	150
1x	70	11.6	1.1	16.40	739	0.272	268	222	184
1x	95	13.3	1.1	17.90	964	0.206	328	269	217
1x	120	15.1	1.2	20.33	1189	0.161	383	312	259
1x	150	16.8	1.4	21.60	1484	0.129	444	355	287
1x	185	18.6	1.6	23.97	1780	0.106	510	417	323
1x	240	21.4	1.7	26.88	2319	0.0801	607	490	379
1x	300	23.9	1.8	29.30	2877	0.0641	703	603	429
Two cores									
2x	1.5	1.6	0.7	10.00	127	13.3	26	22	23
2x	2.5	2.0	0.7	10.90	158	7.98	36	30	30
2x	4	2.6	0.7	12.20	208	4.95	49	40	39
2x	6	3.4	0.7	13.10	258	3.3	63	51	49
2x	10	4.4	0.7	15.25	385	1.91	86	69	66
2x	16	5.7	0.7	17.44	565	1.21	115	91	86
2x	25	6.9	0.9	20.29	793	0.78	149	119	111
2x	35	8.1	0.9	22.38	1037	0.554	185	146	136
2x	50	9.8	1.0	26.22	1447	0.386	225	175	168
2x	70	11.6	1.1	30.88	2224	0.272	289	221	207
2x	95	13.3	1.1	34.18	2848	0.206	352	265	245
2x	120	15.1	1.2	38.41	3599	0.161	410	305	284
2x	150	16.8	1.4	42.46	3939	0.129	473	334	324
2x	185	18.6	1.6	45.89	4407	0.106	542	384	306
2x	240	21.4	1.7	50.02	5742	0.0801	641	459	360
Three cores									
3x	1.5	1.6	0.7	10.44	143	13.3	23	19.5	19
3x	2.5	2.0	0.7	11.41	183	7.98	32	26	25
3x	4	2.6	0.7	12.81	244	4.95	42	35	32
3x	6	3.4	0.7	13.78	314	3.3	54	44	41
3x	10	4.4	0.7	16.90	493	1.91	75	60	55

FEOD-FLEX 0,6/1 kV

(CH) CPR Dca-s2,d2,a2

Model Product: --- - 20240207

Cores number	Cross section	Approx conductor diameter	Insulation medium thickness	Approx external production diameter	Approx cable weight	Electric resistance at 20°C	Current carrying capacities		
							30°C in air	30° In air or pipe	20°C In ground
(N°)	(mm²)	(mm)	(mm)	(mm)	(kg/km)	(Ohm/km)	(A)	(A)	(A)
3x	16	5.7	0.7	18.20	678	1.21	100	80	72
3x	25	6.9	0.9	21.20	977	0.78	127	105	93
3x	35	8.1	0.9	23.50	1354	0.554	158	128	114
3x	50	9.8	1.0	30.05	1918	0.368	192	154	141
3x	70	11.6	1.1	34.04	2624	0.272	246	194	174
3x	95	13.3	1.1	37.86	3418	0.206	298	233	206
3x	120	15.1	1.2	42.63	4326	0.161	346	268	238
3x	150	16.8	1.4	47.16	5348	0.129	399	300	272
3x	185	18.6	1.6	53.35	6611	0.106	456	340	306
3x	240	21.4	1.7	60.69	8613	0.0801	538	398	360
3x	300	23.9	1.8	68.95	8800	0.0641	621	455	429
Four cores									
4x	1.5	1.6	0.7	11.24	167	13.3	23	19.5	19
4x	2.5	2.0	0.7	12.33	221	7.98	32	26	25
4x	4	2.6	0.7	13.70	293	4.95	42	35	32
4x	6	3.4	0.7	14.99	387	3.3	54	44	41
4x	10	4.4	0.7	18.00	599	1.91	75	60	55
4x	16	5.7	0.7	20.30	871	1.21	100	80	72
4x	25	6.9	0.9	23.50	1239	0.78	127	105	93
4x	35	8.1	0.9	28.0	1713	0.554	158	130	114
4x	50	9.8	1.0	35.0	2472	0.368	192	154	141
4x	70	11.6	1.1	42.0	3426	0.272	246	194	174
4x	95	13.3	1.1	43.0	4526	0.206	298	233	206
4x	120	15.1	1.2	50.0	5730	0.161	346	267	238
4x	150	16.8	1.4	54.0	7447	0.129	399	300	272
4x	185	18.6	1.6	65.0	9350	0.106	456	340	306
4x	240	21.4	1.7	72.0	12277	0.0801	538	398	360
4x	300	23.9	1.8	78.09	13689	0.0641	621	455	429
3x35+1x25		8.1	0.9	26.30	1589	0.554	158	128	114
3x50+1x25		9.8	1.0	30.30	2116	0.386	192	155	141
3x70+1x35		11.6	1.1	35.73	2975	0.272	246	194	174
3x95+1x50		13.3	1.1	41.02	3971	0.206	298	235	206
3x120+1x70		15.1	1.2	45.00	5219	0.161	346	267	238
3x150+1x95		16.8	1.4	52.04	6511	0.129	399	300	272
3x185+1x95		18.6	1.6	56.72	7669	0.106	456	340	306
3x240+1x150		21.4	1.7	65.56	10279	0.0801	538	398	360

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FE0D-FLEX 0,6/1 kV

(CH) CPR Dca-s2,d2,a2

Model Product: --- - 20240207

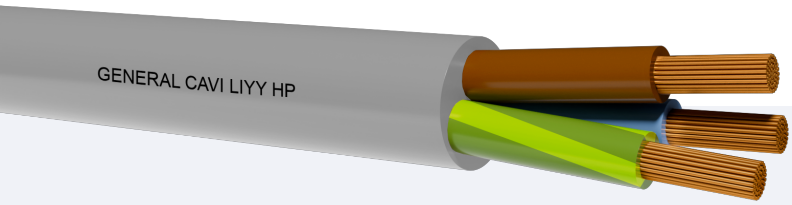
Cores number	Cross section	Approx conductor diameter	Insulation medium thickness	Approx external production diameter	Approx cable weight	Electric resistance at 20°C	Current carrying capacities		
							30°C in air	30° In air or pipe	20°C In ground
(N°)	(mm²)	(mm)	(mm)	(mm)	(kg/km)	(Ohm/km)	(A)	(A)	(A)
Five cores									
5x	1.5	1.6	0.7	12.11	197	13.3	23	19.5	19
5x	2.5	2.0	0.7	13.48	262	7.98	32	26	25
5x	4	2.6	0.7	15.20	361	4.95	42	35	32
5x	6	3.4	0.7	16.65	476	3.3	54	44	41
5x	10	4.4	0.7	19.65	756	1.91	75	60	56
5x	16	5.7	0.7	22.50	1119	1.21	100	80	72
5x	25	6.9	0.9	26.42	1597	0.78	127	105	93
5x	35	8.1	0.9	32.0	2175	0.554	158	130	114
5x	50	9.8	1.0	38.0	3053	0.386	192	155	141
5x	70	11.6	1.1	46.5	4348	0.272	246	194	174
5x	95	13.3	1.1	51.0	5631	0.206	298	235	206

Three, four, five and multicores cables can be produced also with Y/G core. Current carrying capacities for single core cables are calculated on 3 close cables, for two core cables with two charged conductors and for three core cables with three charged conductors. . Outer diameters are approximates and they can have variations of max +/- 3%.
Current Carrying capacities acording to UNEL 35026 with underground laying standard CEI 64-8-61 (ground temp=20°C, depth=0.8m, ground resistivity=1.5 k m/W.).

LiYY HP -OZ/JZ/OB/JB 300/500V

[BE] CPR Cca-s3,d1,a3

Model Product: P66-P67-P68-P69 - 20180212



Class 5 flexible copper conductor.
PVC Insulation in TI2 quality.
PVC sheath in TM2 quality.

STANDARDS

DIN EN 50525-2-51 (vde 0285-525-2-51):2012-01
EN 50575:2014 + EN 50575/A1:2016

Accordingly to the standards BT 2014/35/UE- 2011/65/EU RoHS 2

COMMON FEATURES

For electrical power system in constructions alnd other civil engineering bulginngs,in order to limit fire and smoke production and spread,in accordance with the CPR. Multiconductor oil resistant cables suitable for connection to fixed or mobile devices, for signalling and control system.Suitable for indoor enviroment (dry or wet) , and for outdoor enviroment. The selected raw materials and small outer dimensions, guarantee a good flexibility, and reduced weight, as well as a safe, economic and fast installation.A system operating voltage can always overflow the 10% of its standard voltage..Supply of electricity and communications in buildings and other civil engineering works with the objective of limiting the generation and spread of fire and smoke.

EMPLOYMENT

Minimum bending radius per D cable diameter (in mm):
15 x external diam. (mobile installation)
6 x external diam. (fixed installation)

Maximum pulling stress: 50 N/mm2 (during installation)
15 N/mm2 (static stress)

PACKING

Drums to agree

FLEXIBLE, NUMBER CODED, CABLES FOR MEASURING AND CONTROL INSTALLATION.
Colour coded cores (OB/JB)HD 308 or DIN 47100

Nominal voltage U0: 300 V
Nominal voltage U: 500 V
Test voltage: 4000 V
Maximun operating temperature: +70°C
Minimum installation and laying temperature: -5°C
Min. operating temperature (without mechanical shocks): -40°C

CORE COLOURS

Multicores: black core with white numbering(OZ) + GreenYellow core (JZ).

SHEATH COLOUR

Grey RAL 7001

INK MARKING

GENERAL CAVI Cca-s3,d1,a3 LIYY HP-JZ 300/500V [n° cond] x [sec.] batch number Batch Data

NOTE

TEMPERATURE RANGE flexing:-5 +70°C
TEMPERATURE fixed installation without mechanical shocks:-40 +80°C
Colour coded cores on request (OB/JB)HD 308 or DIN 47100
Oil resistant EN 50290-2-22
UV resistant according to EN 50289-4-17 method A (720h)

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LiYY HP -OZ/JZ/OB/JB 300/500V

[BE] CPR Cca-s3,d1,a3

Model Product: P66-P67-P68-P69 - 20180212

Tabella / table

	Cond.xSec	Outer diameter	Weight		Cond.xSec	Outer diameter	Weight
	(N°xmmq)	(mm)	(kg/km)		(N°xmmq)	(mm)	(kg/km)
Multicores							
-	2x0.50	4.8	32	-	2x1.5	6	58
-	3x0.50	5.1	39	-	3x1.5	6.4	72
-	4x0.50	5.5	47	-	4x1.5	7.2	93
-	5x0.50	6	55	-	5x1.5	7.8	111
-	6x0.50	6.5	64	-	6x1.5	8.5	129
-	7x0.50	6.5	71	-	7x1.5	8.5	144
-	8x0.50	7.5	83	-	8x1.5	9.7	169
-	10x0.50	8.4	101	-	10x1.5	11	205
-	12x0.50	8.7	115	-	12x1.5	11.6	243
-	14x0.50	9.1	131	-	14x1.5	12.1	278
-	16x0.50	10.3	151	-	16x1.5	12.8	312
-	18x0.50	10.3	166	-	18x1.5	13.5	346
-	21x0.50	11.7	197	-	21x1.5	15.1	400
-	25x0.50	12.5	228	-	25x1.5	16.2	467
-	27x0.50	12.5	242	-	2x2.5	7.1	85
-	30x0.50	12.9	264	-	3x2.5	7.5	108
-	34x0.50	13.9	296	-	4x2.5	8.3	135
-	-	-	-	-	5x2.5	9	162
-	-	-	-	-	6x2.5	10.1	195
-	2x0.75	5.2	40	-	7x2.5	10.1	219
-	3x0.75	5.5	48	-	8x2.5	11.3	250
-	4x0.75	6	59	-	10x2.5	13	310
-	5x0.75	6.5	70	-	12x2.5	13.4	361
-	6x0.75	7.3	85	-	14x2.5	14.1	414
-	7x0.75	7.3	94	-	16x2.5	14.9	467
-	8x0.75	8.2	106	-	18x2.5	15.8	519
-	10x0.75	9.4	133	-	21x2.5	17.7	602
-	12x0.75	9.7	153	-	25x2.5	18.9	705
-	14x0.75	10.2	174	-	2x4	8.6	127
-	16x0.75	10.7	195	-	3x4	9.4	167
-	18x0.75	11.5	221	-	4x4	10.3	209
-	21x0.75	12.4	256	-	5x4	11.3	252
-	25x0.75	13.7	297	-	2x6	10	179
-	27x0.75	13.7	315	-	3x6	10.7	232
-	30x0.75	14.2	345	-	4x6	11.9	298

LiYY HP -OZ/JZ/OB/JB 300/500V

[BE] CPR Cca-s3,d1,a3

Model Product: P66-P67-P68-P69 - 20180212

	Cond.xSec (N°xmmq)	Outer diameter (mm)	Weight (kg/km)		Cond.xSec (N°xmmq)	Outer diameter (mm)	Weight (kg/km)
-	34x0.75	15.3	388	-	5x6	13.1	360
-	-	-	-	-	2x10	13.4	314
-	-	-	-	-	3x10	14.3	407
-	2x1	5.6	47	-	4x10	15.8	514
-	3x1	5.9	58	-	5x10	17.4	623
-	4x1	6.5	71	-	2x16	15.8	416
-	5x1	7.3	88	-	3x16	16.9	605
-	6x1	7.9	102	-	4x16	18.7	769
-	7x1	7.9	113	-	5x16	20.6	950
-	8x1	8.8	128	-	2x25	18.8	673
-	10x1	10.2	160	-	3x25	20.1	910
-	12x1	10.5	185	-	4x25	22.5	1165
-	14x1	11.1	211	-	5x25	24.9	1417
-	16x1	11.9	242	-	2x35	20.8	916
-	18x1	12.5	268	-	3x35	22.5	1217
-	21x1	14	310	-	4x35	24.9	1549
-	25x1	14.9	361	-	5x35	27.6	1889
-	27x1	14.9	384	-	-	-	-
-	30x1	15.5	421	-	3x50	26.2	1675
-	34x1	16.7	473	-	4x50	29.3	2151
-	37x1	16.7	507	-	5x50	33	2671
-	42x1	18.1	571	-			

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Catalogo prodotti da costruzione CPR UE305/2011

LiYY HP -OZ/JZ/OB/JB 300/500V

[BE] CPR Cca-s3,d1,a3

Model Product: P66-P67-P68-P69 - 20180212

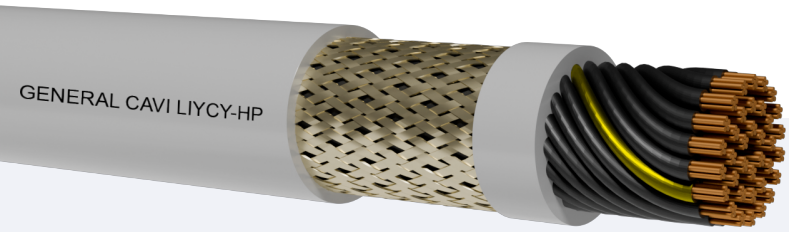
Tabella / table

-	Nominal Section	Toegelaten stroomsterkste voor een verbinding in open lucht bij 30°C (A)							Maximale kernweerstand (klasse 5) bij 20°C (IEC 60228)
		2	3-4-5	7	12	18	27	36	
	(mmq)	(A)	(A)	(A)	(A)	(A)	(A)	(A)	(Ohm/km)
Multicores									
-	0.50	10	9	6.5	5.5	4.5	4	3.5	39
-	0.75	13.5	12	9	7	6	5.5	5	26
-	1	15	13.5	10.5	8	7	6.5	5.5	19.5
-	1.5	19.5	17.5	13	10.5	9.5	8	7	13.3
-	2.5	26	24	17.5	14.5	12.5	11	10	7.98
-	4	35	32	-	-	-	-	-	4.95
-	6	46	41	-	-	-	-	-	3.3
-	10	63	57	-	-	-	-	-	1.91
-	16	85	76	-	-	-	-	-	1.21

LIYCY HP -OZ/JZ/OB/JB 300/500V

[BE]CPR Cca-s3,d1,a3

Model Product: P58 P59 P60 P61 P62 P63 P64 P65 - 20201202



Class 5 flexible copper conductor.
PVC Insulation in TI2 quality.
Tinned copper wires braid screen (Kf>75%)
PVC sheath in TM2 quality.

STANDARDS

VDE 0472 / IEC 60228 CL.5 VDE 0290; 0290; 0281; 0245; 0293.
EN 50575:2014 + EN 50575/A1:2016

Accordingly to the standards BT 2014/35/UE- 2011/65/EU (RoHS 2)

FLEXIBLE, SCREENED, NUMBER CODED, CABLES FOR MEASURING AND CONTROL INSTALLATION.
Colour coded cores (OB/JB)HD 308 or DIN 47100

Nominal voltage U0: 300 V
Nominal voltage U: 500 V
Test voltage: 4000 V
Maximun operating temperature: +70°C
Minimum installation and laying temperature: -5°C
Min. operating temperature (without mechanical shocks): -40°C

CORE COLOURS

Multicores: black core with white numbering(OZ) + GreenYellow core (JZ).Colored Cores (OB)+ GreenYellow core (JB)

SHEATH COLOUR

Grey RAL 7001

COMMON FEATURES

Multiconductor oil resistant screened cables suitable for connection to fixed or mobile devices, for signalling and control system.Suitable for indoor enviroment (dry or wet) , and for outdoor enviroment. The selected raw materials and small outer dimensions, guarantee a good flexibility, and reduced weight, as well as a safe, economic and fast installation.A system operating voltage can always overflow the 10% of its standard voltage.Supply of electricity and communications in buildings and other civil engineering works with the objective of limiting the generation and spread of fire and smoke.

INK MARKING

GENERAL CAVI Cca-s3,d1,a3 LIYCY HP-JZ 300/500V [n° cond] x [sec.] batch number Batch Data

EMPLOYMENT

Minimum bending radius per D cable diameter (in mm):
20 x external diam. (mobile installation)
10 x external diam. (fixed installation)

Maximum pulling stress: 50 N/mm2 (during installation)
15 N/mm2 (static stress)

NOTE

TEMPERATURE RANGE flexing:-5 +70°C
TEMPERATURE fixed installation without mechanical shocks:-40 +80°C
Colour coded cores on request (OB/JB)HD 308 or DIN 47100
Oil resistant EN 50290-2-22
UV resistant according to EN 50289-4-17 method A (720h)

PACKING

100m ring inside Heat Shrink Packaging
500m, 1000m drum.

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Catalogo prodotti da costruzione CPR UE305/2011

LIYCY HP -OZ/JZ/OB/JB 300/500V

[BE]CPR Cca-s3,d1,a3

Model Product: P58 P59 P60 P61 P62 P63 P64 P65 - 20201202

Tabella / table

	Cond.xSec (N°xmmq)	Outer diameter (mm)	Weight (kg/km)		Cond.xSec (N°xmmq)	Outer diameter (mm)	Weight (kg/km)
Multicores							
-	2x0.50	5.4	41	-	2x1.5	6.7	67
-	3x0.50	5.7	50	-	3x1.5	7	85
-	4x0.50	6.1	59	-	4x1.5	7.9	106
-	5x0.50	6.6	72	-	5x1.5	8.6	130
-	6x0.50	7.1	82	-	6x1.5	9.2	155
-	7x0.50	7.1	85	-	7x1.5	9.2	165
-	8x0.50	8.1	110	-	8x1.5	10.5	215
-	10x0.50	9.1	123	-	10x1.5	12.1	245
-	12x0.50	9.4	138	-	12x1.5	12.5	280
-	14x0.50	10	159	-	14x1.5	13.1	315
-	16x0.50	10.5	175	-	16x1.5	13.8	350
-	18x0.50	11	198	-	18x1.5	14.5	395
-	21x0.50	12.5	230	-	21x1.5	15.6	440
-	25x0.50	13.2	260	-	25x1.5	16.7	510
-	2x0.75	5.8	49	-	2x2.5	7.9	95
-	3x0.75	6.1	60	-	3x2.5	8.4	125
-	4x0.75	6.6	73	-	4x2.5	9.1	155
-	5x0.75	7.2	87	-	5x2.5	10.1	190
-	6x0.75	7.9	104	-	6x2.5	11	230
-	7x0.75	7.9	110	-	7x2.5	11	245
-	8x0.75	8.8	138	-	8x2.5	12.5	290
-	10x0.75	10	155	-	10x2.5	14.1	350
-	12x0.75	10,3	175	-	12x2.5	14.6	405
-	14x0.75	10.8	200	-	14x2.5	15.3	460
-	16x0.75	11.5	220	-	16x2.5	16.1	520
-	18x0.75	12.2	255	-	18x2.5	18.2	570
-	21x0.75	13.6	290	-	21x2.5	19.4	660
-	25x0.75	14.4	325	-	25x2.5	21	770
-	2x1	6.3	56	-	2x4	9	130
-	3x1	6.6	70	-	3x4	9.9	175
-	4x1	7.2	85	-	4x4	10.8	220
-	5x1	8	105	-	5x4	11.7	270
-	6x1	8.7	125	-	2x6	10.5	180

LIYCY HP -OZ/JZ/OB/JB 300/500V

[BE]CPR Cca-s3,d1,a3

Model Product: P58 P59 P60 P61 P62 P63 P64 P65 - 20201202

	Cond.xSec (N°xmmq)	Outer diameter (mm)	Weight (kg/km)		Cond.xSec (N°xmmq)	Outer diameter (mm)	Weight (kg/km)
-	7x1	8.7	130	-	3x6	11	240
-	8x1	9.9	170	-	4x6	12.5	310
-	10x1	11	190	-	5x6	13.6	385
-	12x1	11.3	215	-	2x10	13.9	302
-	14x1	12.2	250	-	3x10	14.8	410
-	16x1	12.8	280	-	4x10	16.3	523
-	18x1	13.5	315	-	5x10	17.9	637
-	21x1	15	360	-			
-	25x1	16	410	-			
-	-	-	-	-	-	-	-
-	2x16	16.3	433	-	2x25	19.3	616
-	3x16	17.4	598	-	3x25	20.6	864
-	4x16	19.2	769	-	4x25	23	1128
-	5x16	21.1	941	-	5x25	25.4	1384
-	-	-	-	-	-	-	
-	2x35	20.8	900	-	2x50	24.4	1250
-	3x35	22.5	1200	-	3x50	26.2	1654
-	4x35	24.9	1530	-	4x50	29.3	2127
-	5x35	27.6	1866	-	5x50	33	2641

LSZH - Low Smoke Zero Halogen Version.
LSZH sheath. Same diameters and number of pairs of standard PVC version.
Minimum Order Quantity request.

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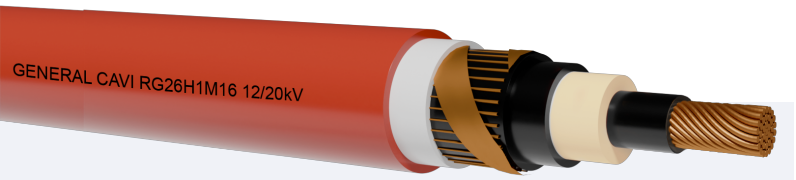
MEDIUM VOLTAGE

RG26H1M16 12/20kV L.S.0.H. 105°

CPR Cca-s1b,d1,a1

Model Product: 7A0 - 20200212



Rigid class 2 red copper conductor.
Inner semi-conducting layer
Elastomeric mixture insulation (G26 quality).
Cold-peelable extruded elastomeric external semiconductor
Red copper wire shield.
Not fibrous and not hygroscopic filler
LSZH thermoplastic sheath, M16.

STANDARDS

CEI UNEL 35334 HD 620 CEI 20-13pqa, IEC 60502pqa
EN 50575:2014 + EN 50575/A1:2016 (IEC 60332-1-2)

COMMON FEATURES

Suitable for the transport of energy between the substations and large users, particularly suitable in areas with danger of fire equipment on the premises where they are concentrated, frameworks and tools where it is essential to safeguard them (e.g. schools, hospitals, public premises, hotels, supermarkets, tubes, cinemas, theatres, discotheques, public offices). .For electrical power system in constructions alnd other civil engineering bulginngs,in order to limit fire and smoke production and spread,in accordance with the CPR.For free-hanging, tube or channel. Laying underground AD7 in accordance with Art. 4.3.11 of IEC 11-17

EMPLOYMENT

Minimum bending radius per D cable diameter (in mm): 12 D

Maximum pulling stress: 60 N/mm²

PACKING

Drums to agree.

Cables for connections between substations and large users

Nominal voltage U0: 12 kV

Nominal voltage U: 20 kV

Test voltage: 42 kV

Maximun voltage Um: 24 kV

Maximun operating temperature: 105 °C

Maximun short circuit temperature: 300 °C

Minimum installation and laying temperature: -5°C

Min. operating temperature (without mechanical shocks): -20°C

CORE COLOURS

Single core: pink

SHEATH COLOUR

Red

INK MARKING

General Cavi Cca-s1b,d1,a1 RG26H1M16 12/20kV CEI UNEL 35334 LS0H 105 [form.] [year] [traceability data] [metric]

NOTE

Special features on request:RI (Hydrocarbon Resistant) CEI 20-34 / 0-1 and PQA to OIL & GAS specifications.

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Catalogo prodotti da costruzione CPR UE305/2011

RG26H1M16 12/20kV L.S.O.H. 105°

CPR Cca-s1b,d1,a1

Model Product: 7A0 - 20200212

RG26H1M16 12/20 kV L.S.O.H. - ATOSSICO - 105°C

Conductor Number	Nominal Section	Approx conductor diameter	Approx insulation diameter	MAXIMUM external diameter	Approx cable weight	Minimum radius bending
(N°)	(mmq)	(mm)	(mm)	(mm)	(kg/km)	(mm)
Single core						
1x	25	6.0	17	30.4	1120	365
1x	35	7.0	17	31.2	1250	375
1x	50	8.1	18	31.7	1300	380
1x	70	9.8	19	32.8	1570	394
1x	95	11.4	21	34.5	1870	414
1x	120	12.9	22	36.4	2190	437
1x	150	14.2	24	37.0	2500	444
1x	185	15.8	25	39.5	2960	474
1x	240	18.2	28	42.4	3580	506
1x	300	20.5	31	46.0	4280	552
1x	400	23.2	33	49.3	5260	592
1x	500	26.4	37	53.5	6460	642
1x	630	30.4	40	59.0	8100	708

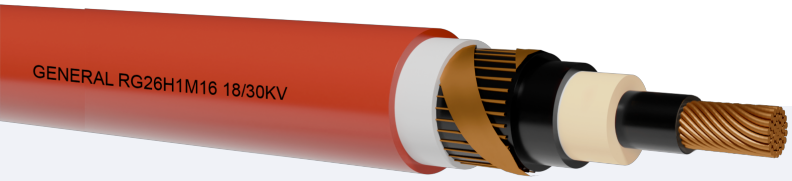
Nominal Section	Electric resistance at 20°C	Capacities 50 Hz	Apparent resistance at 105°C and 50 Hz		Phase Reactance		Current carrying capacities			
			Trefoil formation	Flat	Trefoil formation	Flat	Trefoil formation in air	Flat in air	*Trefoil formation in ground	*Flat in ground
(N° x mmq)	(Ohm/km)	(microF/km)	(Ohm/km)	(Ohm/km)	(Ohm/km)	(Ohm/km)	(A)	(A)	(A)	(A)
Single core										
1x25	0.727	0.17	0.970	0.970	0.14	0.20	175	203	166	172
1x35	0.524	0.20	0.669	0.669	0.13	0.19	212	248	199	206
1x50	0.387	0.22	0.517	0.517	0.13	0.18	253	297	235	244
1x70	0.268	0.25	0.358	0.358	0.12	0.18	316	373	288	299
1x95	0.193	0.29	0.258	0.258	0.11	0.17	385	455	345	358
1x120	0.153	0.31	0.205	0.205	0.11	0.17	445	525	392	406
1x150	0.124	0.34	0.166	0.166	0.11	0.16	506	595	440	454
1x185	0.0991	0.37	0.134	0.134	0.10	0.16	581	680	496	512
1x240	0.0754	0.41	0.102	0.102	0.10	0.16	688	802	574	591
1x300	0.0601	0.46	0.083	0.082	0.095	0.15	790	916	647	664
1x400	0.0470	0.49	0.066	0.065	0.093	0.15	914	1049	730	756
1x500	0.0366	0.56	0.053	0.052	0.090	0.15	1058	1208	828	848
1x630	0.0283	0.62	0.043	0.041	0.087	0.14	1219	1379	927	940

*) The flow rates refer to the following conditions: Thermal resistivity of the ground: 1 K m/W; Room temperature 20°C; installation depth: 0.8 m

RG26H1M16 18/30kV L.S.0.H. 105°

CPR Cca-s1b,d1,a1

Model Product: 7A5 - 20200212



Rigid class 2 red copper conductor.
Inner semi-conducting layer
Elastomeric mixture insulation (G26 quality).
Cold-peelable extruded elastomeric external semiconductor
Red copper wire shield.
Not fibrous and not hygroscopic filler
LSZH thermoplastic sheath, M16.

STANDARDS

CEI UNEL 35334 HD 620 CEI 20-13pqa, IEC 60502pqa
EN 50575:2014 + EN 50575/A1:2016 (IEC 60332-1-2)

COMMON FEATURES

Suitable for the transport of energy between the substations and large users, particularly suitable in areas with danger of fire equipment on the premises where they are concentrated, frameworks and tools where it is essential to safeguard them (e.g. schools, hospitals, public premises, hotels, supermarkets, tubes, cinemas, theatres, discotheques, public offices).For electrical power system in constructions alnd other civil engineering bulginngs,in order to limit fire and smoke production and spread,in accordance with the CPRFor free-hanging, tube or channel.Laying underground AD7 in accordance with Art. 4.3.11 of IEC 11-17

EMPLOYMENT

Minimum bending radius per D cable diameter (in mm): 12 D

Maximum pulling stress: 60 N/mm²

PACKING

Drums to agree.

Cables for connections between substations and large users

Nominal voltage U0: 18 kV

Nominal voltage U: 30 kV

Test voltage: 63 kV

Maximun voltage Um: 36 kV

Maximun operating temperature: +105°C

Maximun short circuit temperature: +300°C

Minimum installation and laying temperature: -5°C

Min. operating temperature (without mechanical shocks): -20°C

CORE COLOURS

Single core: pink

SHEATH COLOUR

Red

INK MARKING

General Cavi Cca-s1b,d1,a1 RG26H1M16 12/20kV CEI UNEL 35334 LS0H 105 [form.] [year] [traceability data] [metric]

NOTE

Special features on request:RI (Hydrocarbon Resistant) CEI 20-34 / 0-1 and PQA to OIL & GAS specifications.

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Catalogo prodotti da costruzione CPR UE305/2011

RG26H1M16 18/30kV L.S.0.H. 105°

CPR Cca-s1b,d1,a1

Model Product: 7A5 - 20200212

18/30 kV LS0H

Conductor Number	Nominal Section	Approx conductor diameter	Approx insulation diameter	Maximum outer diameter	Approx cable weight	Minimum radius bending
(N°)	(mmq)	(mm)	(mm)	(mm)	(kg/km)	(mm)
Single core						
1x	35	7.0	25.6	38.2	1830	458
1x	50	8.2	25	38.5	1890	462
1x	70	9.8	25	39.1	2070	469
1x	95	11.5	26	40	2340	480
1x	120	13.0	27	41.1	2590	493
1x	150	14.4	28.2	42.5	2920	510
1x	185	16.1	29.3	44.1	3300	530
1x	240	18.5	31	45.1	3950	542
1x	300	20.7	34.4	48.6	4720	584
1x	400	23.4	37	51.8	5670	622
1x	500	26.2	41	56	6930	672
1x	630	29.8	45	61.7	8680	741

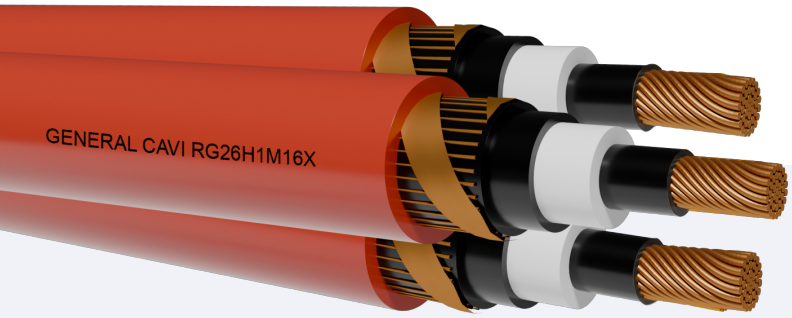
Formation	Electric resistance at 20°C	Capacities 50 Hz	Apparent resistance at 105°C and 50 Hz		Phase Reactance		Current carrying capacities			
			Trefoil formation	Flat	Trefoil formation	Flat	Trefoil formation in air	Flat in air	*Trefoil formation in ground	*Flat in ground
(N°xmmq)	(Ohm/km)	(microF/km)	(Ohm/km)	(Ohm/km)	(Ohm/km)	(Ohm/km)	(A)	(A)	(A)	(A)
Single core										
1x35	0.524	0.13	0.665	0.665	0.13	0.20	215	248	200	206
1x50	0.387	0.15	0.516	0.516	0.14	0.20	256	290	231	240
1x70	0.268	0.17	0.358	0.358	0.13	0.19	319	360	284	294
1x95	0.193	0.19	0.258	0.258	0.12	0.18	389	441	339	351
1x120	0.153	0.22	0.205	0.205	0.12	0.18	449	507	387	400
1x150	0.124	0.24	0.166	0.166	0.11	0.17	506	576	432	448
1x185	0.0991	0.27	0.133	0.133	0.11	0.17	582	661	489	507
1x240	0.0754	0.30	0.102	0.102	0.10	0.16	689	775	567	583
1x300	0.0601	0.34	0.082	0.082	0.10	0.16	790	884	640	654
1x400	0.0470	0.38	0.065	0.065	0.099	0.16	913	1020	725	740
1x500	0.0366	0.42	0.053	0.052	0.095	0.15	1056	1174	820	835
1x630	0.0283	0.47	0.043	0.041	0.093	0.15	1210	1334	923	932

*) The flow rates refer to the following conditions:
- Thermal resistivity of the ground: 1 K m/W
- Room temperature 20°C
- installation depth: 0.8 m

RG26H1M16X 12/20kV e 18/30kV LS0H 105°

CPR Cca-s1b,d1,a1

Model Product: 7A0-7A5 - 20210305



Rigid class 2 red copper conductor.
Inner semi-conducting layer
Elastomeric mixture insulation (G26 quality).
Cold-peelable extruded elastomeric external semiconductor
Red copper wire shield.
Not fibrous and not hygroscopic filler
LSZH thermoplastic sheath, M16.

STANDARDS

CEI UNEL 35334pqa HD 620 CEI 20-13pqa, IEC 60502pqa
EN 50575:2014 + EN 50575/A1:2016 (IEC 60332-1-2)

COMMON FEATURES

Suitable for the transport of energy between the substations and large users, particularly suitable in areas with danger of fire equipment on the premises where they are concentrated, frameworks and tools where it is essential to safeguard them (e.g. schools, hospitals, public premises, hotels, supermarkets, tubes, cinemas, theatres, discotheques, public offices). .For electrical power system in constructions alnd other civil engineering bulginngs,in order to limit fire and smoke production and spread,in accordance with the CPR.For free-hanging, tube or channel. Laying underground in accordance with Art. 4.3.11 of IEC 11-17

EMPLOYMENT

Minimum bending radius per D cable diameter (in mm): 12 D

Maximum pulling stress: 60 N/mm²

PACKING

Drums to agree.

Precorded Unipolar Cables for connections between substations and large users

Nominal voltage U0: 12 kV : 18 kV
Nominal voltage U: 20 kV : 30 kV
Test voltage: 42 kV : 63 kV
Maximun voltage Um: 24 kV : 36 kV
Maximun operating temperature: 105 °C
Maximun short circuit temperature: 300 °C
Minimum installation and laying temperature: -5°C
Min. operating temperature (without mechanical shocks): -20°C

CORE COLOURS

Single core: pink

SHEATH COLOUR

Red

INK MARKING

General Cavi Cca-s1b,d1,a1 RG26H1M16 12/20kV LS0H 105 [3x1x.] [year] [traceability data] [metric]FASE 1/2/3

NOTE

Special features on request:RI (Hydrocarbon Resistant) CEI 20-34 / 0-1 and PQA to OIL & GAS specifications.

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Catalogo prodotti da costruzione CPR UE305/2011

RG26H1M16X 12/20kV e 18/30kV LS0H 105°

CPR Cca-s1b,d1,a1

Model Product: 7A0-7A5 - 20210305

RG26H1M16X 12/20 kV L.S.0.H. - ATOSSICO - 105°C

Conductor Number	Nominal Section	Approx conductor diameter	Approx insulation diameter	Reunited External Diameter	Approx cable weight	Minimum radius bending
(N°)	(mmq)	(mm)	(mm)	(mm)	(kg/km)	(mm)
Three cores						
3x1x	25	6.0	17	53	2340	604
3x1x	35	7.0	17	55	2550	606
3x1x	50	8.1	18	56	2940	622
3x1x	70	9.8	19	59.5	3570	655
3x1x	95	11.4	21	62.5	4410	699
3x1x	120	12.9	22	66	5220	751
3x1x	150	14.2	24	69.5	6060	804
3x1x	185	15.8	25	74	7320	855
3x1x	240	18.2	28	80.5	9120	907
3x1x	300	20.5	31	87	11100	978
3x1x	400	23.2	33	94	13650	1038
3x1x	500	26.4	37	100.5	17010	1166
3x1x	630	30.4	40	111	21315	1270

Nominal Section	Electric resistance at 20°C	Capacities 50 Hz	Apparent resistance at 105°C and 50 Hz	Phase Reactance	Current carrying capacities	
			Trefoil formation		Trefoil formation in air	*Trefoil formation in ground
(N° x mmq)	(Ohm/km)	(microF/km)	(Ohm/km)	(Ohm/km)	(A)	(A)
Three cores						
3x1x25	0.727	0.17	0.970	0.14	175	166
3x1x35	0.524	0.20	0.669	0.13	212	199
3x1x50	0.387	0.22	0.517	0.13	253	235
3x1x70	0.268	0.25	0.358	0.12	316	288
3x1x95	0.193	0.29	0.258	0.11	385	345
3x1x120	0.153	0.31	0.205	0.11	445	392
3x1x150	0.124	0.34	0.166	0.11	506	440
3x1x185	0.0991	0.37	0.134	0.10	581	496
3x1x240	0.0754	0.41	0.102	0.10	688	574
3x1x300	0.0601	0.46	0.083	0.095	790	647
3x1x400	0.0470	0.49	0.066	0.093	914	730
3x1x500	0.0366	0.56	0.053	0.090	1058	828
3x1x630	0.0283	0.62	0.043	0.087	1219	927

RG26H1M16X 12/20kV e 18/30kV LS0H 105°

CPR Cca-s1b,d1,a1

Model Product: 7A0-7A5 - 20210305

RG26H1M16X 18/30 kV L.S.0.H. - ATOSSICO - 105°C

Conductor Number	Nominal Section	Approx conductor diameter	Approx insulation diameter	Approx external diameter	Approx cable weight	Minimum radius bending
(N°)	(mmq)	(mm)	(mm)	(mm)	(kg/km)	(mm)
Three cores						
3x1x	35	7.0	25.6	69.5	4100	816
3x1x	50	8.2	25	72	4140	821
3x1x	70	9.8	25	73.5	4680	830
3x1x	95	11.5	26	75	5430	842
3x1x	120	13.0	27	77	6150	868
3x1x	150	14.4	28.2	79.5	7020	897
3x1x	185	16.1	29.3	82	8100	933
3x1x	240	18.5	31	88.5	9960	998
3x1x	300	20.7	34.4	94.5	11970	1076
3x1x	400	23.4	37	101	14925	1148
3x1x	500	26.2	41	108.5	18165	1247
3x1x	630	29.8	45	119.5	22602	1600

Nominal Section	Elettric Resistace 20°C	Capacities 50 Hz	Apparent resistance at 105°C and 50 Hz	Phase Reactance	Current carrying capacities	
					30°C in air	* In ground
(N°xmmq)	(Ohm/km)	(microF/km)	(Ohm/km)	(Ohm/km)	(A)	(A)
Three cores						
3x1x35	0.524	0.13	0.665	0.13	215	200
3x1x50	0.367	0.15	0.516	0.14	256	231
3x1x70	0.268	0.17	0.358	0.13	319	284
3x1x95	0.193	0.19	0.258	0.12	389	339
3x1x120	0.153	0.22	0.205	0.12	449	387
3x1x150	0.124	0.24	0.166	0.11	506	432
3x1x185	0.0991	0.27	0.133	0.11	582	489
3x1x240	0.0754	0.30	0.102	0.10	689	567
3x1x300	0.0601	0.34	0.082	0.10	790	640
3x1x400	0.0470	0.38	0.065	0.099	913	725
3x1x500	0.0366	0.42	0.053	0.095	1056	820
3x1x630	0.0283	0.47	0.043	0.093	1210	923

*) The flow rates refer to the following conditions: Thermal resistivity of the ground: 1 K m/W; Room temperature 20°C; installation depth: 0.8 m

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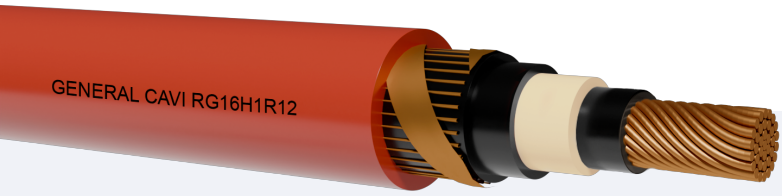
Catalogo prodotti da costruzione CPR UE305/2011

RG16H1R12 da 1,8/3kV a 18/30 kV.

(UNIPOLARI EX RG7H1R) CPR Eca

Model Product: 7I0-7L0-7M0-7O0-7P0-7Q0 - 20201023



Rigid class 2 red copper conductor.
Inner semi-conducting layer
Elastomeric mixture insulation (G16 quality).
Outer semi-conducting layer special high module hepr for 1.8 / 3 kV only on request
Red copper wire shield.
Outer Sheath PVC R12 type.

STANDARDS

CEI 20-13, HD 620 IEC 60502pqa
EN 50575:2014 + EN 50575/A1:2016 (IEC 60332-1-2)

COMMON FEATURES

Suitable for the transport of energy between the substations and large users.For electrical power system in constructions alnd other civil engineering bulginngs,in order to limit fire and smoke production and spread,in accordance with the CPR For free hanging, pipe or channel. Laying underground also not protected.

EMPLOYMENT

Minimum bending radius per D cable diameter (in mm): 12 D

Maximum pulling stress: 60 N/mm

PACKING

Packaging and minimal quantity to agree

MEDIOM VOLTAGE

Nominal voltage U0: da 1,8kV a 18kV
Nominal voltage U: da 3kV a 30kV
Maximun operating temperature: +90°C
Maximun short circuit temperature: +250°C
Minimum installation and laying temperature: 0°C
Min. operating temperature (without mechanical shocks): -15°C

CORE COLOURS

Single core: pink

Three cores: pink

SHEATH COLOUR

Red

NOTE

In cables with a rated voltage of Uo insulation to lower ground or equal to 3.6 kV is allowed the omission of the semiconductor layers.

RG16H1R12 da 1,8/3kV a 18/30 kV.

(UNIPOLARI EX RG7H1R) CPR Eca

Model Product: 7I0-7L0-7M0-7O0-7P0-7Q0 - 20201023

Uo/U : 1,8/3 kV - U max : 3,6 kV(EX GRADO 8)

Conductor number	Nominal cross section	Approx cond. diameter	Insulation diameter	Approx overall diameter	Approx cable weight	Minimum radius bending
(N.)	(mm2)	(mm)	(mm)	(mm)	(kg/km)	(mm)
Single core						
1x	10	4.0	8.0	14.5	289	180
1x	16	4.8	8.8	15.2	348	190
1x	25	6.0	10.0	16.5	448	200
1x	35	7.0	11.0	17.5	547	220
1x	50	8.1	12.1	18.5	677	240
1x	70	9.9	13.9	20.1	905	260
1x	95	11.5	15.5	22.1	1174	290
1x	120	12.9	16.9	23.3	1423	310
1x	150	14.2	18.2	24.7	1692	330
1x	185	15.9	19.9	26.5	2040	350
1x	240	18.3	22.3	29.0	2587	390
1x	300	20.7	24.7	31.6	3184	420
1x	400	23.5	27.5	34.6	4010	460
1x	500	26.5	31.0	38.3	5055	510
1x	630	31.2	36.2	43.1	6388	570

Formation	Elettric Resistace 20°C	Capacities 50 Hz	Apparent resistance at 90°C and 50 Hz		Phase Reactance		Current carrying capacities			
			Trefoil formation	Flat	Trefoil formation	Flat	Trefoil formation in air	Flat in air	Trefoil formation in ground	Flat in ground
(N° x mmq)	(Ohm/km)	(microF/km)	(Ohm/km)	(Ohm/km)	(Ohm/km)	(Ohm/km)	(A)	(A)	(A)	(A)
Single core										
1x10	1,83	0,19	2,34	2,34	0,13	0,19	87	111	99	104
1x16	1,15	0,23	1,47	1,47	1.12	0,18	114	145	126	133
1x25	0,727	0,27	0,927	0,927	0,12	0,18	149	190	162	171
1x35	0,524	0,30	0,669	0,668	0,11	0,17	181	230	193	204
1x50	0,387	0,34	0,494	0,494	0,11	0,16	219	276	227	241
1x70	0,268	0,40	0,342	0,342	0,10	0,16	275	345	278	294
1x95	0,193	0,45	0,246	0,246	0,098	0,16	339	422	332	351
1x120	0,153	0,50	0,196	0,196	0,095	0,15	393	487	377	399
1x150	0,124	0,55	0,159	0,158	0,092	0,15	466	550	421	445
1x185	0,0991	0,60	0,128	0,127	0,089	0,15	516	635	477	500
1x240	0,0754	0,68	0,0985	0,0974	0,086	0,14	617	745	550	580
1x300	0,0601	0,75	0,0797	0,0781	0,084	0,14	709	855	621	650
1x400	0,0470	0,83	0,0638	0,0628	0,083	0,14	824	990	702	735
1x500	0,0366	0,88	0,0517	0,0492	0,081	0,14	954	1140	790	830

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Catalogo prodotti da costruzione CPR UE305/2011

RG16H1R12 da 1,8/3kV a 18/30 kV.

(UNIPOLARI EX RG7H1R) CPR Eca

Model Product: 7I0-7L0-7M0-7O0-7P0-7Q0 - 20201023

Formation	Elettric Resistace 20°C	Capacities 50 Hz	Apparent resistance at 90°C and 50 Hz		Phase Reactance		Current carrying capacities			
			Trefoil formation	Flat	Trefoil formation	Flat	Trefoil formation in air	Flat in air	Trefoil formation in ground	Flat in ground
(N° x mmq)	(Ohm/km)	(microF/km)	(Ohm/km)	(Ohm/km)	(Ohm/km)	(Ohm/km)	(A)	(A)	(A)	(A)
1x630	0,0283	0,92	0,0425	0,0392	0,079	0,14	1102	1300	885	930

RG16H1R12 da 1,8/3kV a 18/30 kV.

(UNIPOLARI EX RG7H1R) CPR Eca

Model Product: 7I0-7L0-7M0-7O0-7P0-7Q0 - 20201023

Uo/U : 3,6/6 kV - U max : 7,2 kV(EX GRADO 11)

Conductor number	Nominal cross section	Approx cond. diameter	Insulation diameter	Approx overall diameter	Approx cable weight	Minimum radius bending
(N.)	(mm2)	(mm)	(mm)	(mm)	(kg/km)	(mm)
Single core						
1x	10	4.0	11.6	17.5	347	210
1x	16	4.8	12.4	17.0	416	204
1x	25	6.0	13.6	18.8	549	225
1x	35	7.0	14.6	19.8	653	238
1x	50	8.1	15.7	21.4	792	257
1x	70	9.9	17.5	23.3	1035	280
1x	95	11.5	19.1	24.8	1317	298
1x	120	12.9	20.5	26.3	1564	316
1x	150	14.2	21.8	27.8	1841	334
1x	185	15.9	23.6	29.5	2203	354
1x	240	18.3	26.0	32.1	2822	386
1x	300	20.7	28.4	34.8	3366	418
1x	400	23.5	32.4	37.8	4158	454
1x	500	26.5	35.9	41.8	5247	502
1x	630	31.2	39.9	45.8	6534	550

Formation	Electric resistance at 20°C	Capacities 50 Hz	Apparent resistance at 90°C and 50 Hz		Phase Reactance		Current carrying capacities			
			Trefoil formation	Flat	Trefoil formation	Flat	Trefoil formation in air	Flat in air	Trefoil formation in ground	Flat in ground
(N° x mmq)	(Ohm/km)	(microF/km)	(Ohm/km)	(Ohm/km)	(Ohm/km)	(Ohm/km)	(A)	(A)	(A)	(A)
Single core										
1x10	1.83	0.16	2.34	2.34	0.16	0.21	91	105	93	98
1x16	1.15	0.18	1.47	1.47	0.15	0.20	117	136	120	128
1x25	0.727	0.21	0.927	0.927	0.14	0.19	154	178	155	163
1x35	0.524	0.23	0.669	0.669	0.13	0.19	186	219	185	195
1x50	0.387	0.26	0.494	0.494	0.12	0.18	223	260	218	231
1x70	0.268	0.29	0.342	0.342	0.12	0.17	279	325	270	285
1x95	0.193	0.32	0.246	0.246	0.11	0.17	340	398	320	340
1x120	0.153	0.36	0.196	0.196	0.11	0.16	395	460	365	385
1x150	0.124	0.38	0.159	0.158	0.10	0.16	448	520	410	432
1x185	0.0991	0.42	0.128	0.127	0.10	0.16	516	600	464	490
1x240	0.0754	0.47	0.0985	0.0973	0.097	0.16	610	705	540	565
1x300	0.0601	0.52	0.0797	0.0780	0,095	0.15	703	810	605	635
1x400	0.0470	0.57	0.0638	0.0617	0.092	0.15	815	935	690	720
1x500	0.0366	0.64	0.0517	0.0490	0.089	0.15	945	1080	780	810

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RG16H1R12 da 1,8/3kV a 18/30 kV.

(UNIPOLARI EX RG7H1R) CPR Eca

Model Product: 7I0-7L0-7M0-7O0-7P0-7Q0 - 20201023

Formation	Electric resistance at 20°C	Capacities 50 Hz	Apparent resistance at 90°C and 50 Hz		Phase Reactance		Current carrying capacities			
			Trefoil formation	Flat	Trefoil formation	Flat	Trefoil formation in air	Flat in air	Trefoil formation in ground	Flat in ground
(N° x mmq)	(Ohm/km)	(microF/km)	(Ohm/km)	(Ohm/km)	(Ohm/km)	(Ohm/km)	(A)	(A)	(A)	(A)
1x630	0.0283	0.73	0.0425	0.0390	0.087	0.15	1085	1230	875	900

RG16H1R12 da 1,8/3kV a 18/30 kV.

(UNIPOLARI EX RG7H1R) CPR Eca

Model Product: 7I0-7L0-7M0-7O0-7P0-7Q0 - 20201023

Uo/U : 6/10 kV - U max : 12 kV(EX GRADO 17)

Conductor Number	Nominal Section	Approx conductor diameter	Approx insulation diameter	Approx external production diameter	Approx cable weight	Minimum radius bending
(N°)	(mmq)	(mm)	(mm)	(mm)	(kg/km)	(mm)
Single core						
1x	10	4.0	14.2	19.9	458	260
1x	16	4.8	14.2	20.4	547	280
1x	25	6.0	15.4	21.8	647	300
1x	35	7.0	16.4	23.3	766	310
1x	50	8.1	17.5	24.8	945	330
1x	70	9.9	19.3	26.3	1144	350
1x	95	11.5	20.9	27.8	1443	380
1x	120	12.9	22.3	29.3	1682	400
1x	150	14.2	23.6	30.8	1990	410
1x	185	15.9	25.4	32.8	2388	440
1x	240	18.3	27.8	35.3	2965	480
1x	300	20.7	30.2	37.8	3582	510
1x	400	23.5	33.0	40.8	4378	550
1x	500	26.5	36.0	44.3	5512	600
1x	630	31.2	40.7	54.8	6965	670

Formation	Electric resistance at 20°C	Capacities 50 Hz	Apparent resistance at 90°C and 50 Hz		Phase Reactance		Current carrying capacities			
			Trefoil formation	Flat	Trefoil formation	Flat	Trefoil formation in air	Flat in air	Trefoil formation in ground	Flat in ground
(N° x mmq)	(Ohm/km)	(microF/km)	(Ohm/km)	(Ohm/km)	(Ohm/km)	(Ohm/km)	(A)	(A)	(A)	(A)
Single core										
1x10	1.83	0.16	2.34	2.34	0.16	0.21	91	105	93	98
1x16	1.15	0.18	1.47	1.47	0.15	0.20	117	136	120	128
1x25	0.727	0.21	0.927	0.927	0.14	0.19	154	178	155	163
1x35	0.524	0.23	0.669	0.669	0.13	0.19	186	219	185	195
1x50	0.387	0.26	0.494	0.494	0.12	0.18	223	260	218	231
1x70	0.268	0.29	0.342	0.342	0.12	0.17	279	325	270	285
1x95	0.193	0.32	0.246	0.246	0.11	0.17	340	398	320	340
1x120	0.153	0.36	0.196	0.196	0.11	0.16	395	460	365	385
1x150	0.124	0.38	0.159	0.158	0.10	0.16	448	520	410	432
1x185	0.0991	0.42	0.128	0.127	0.10	0.16	516	600	464	490
1x240	0.0754	0.47	0.0985	0.0973	0.097	0.16	610	705	540	565
1x300	0.0601	0.52	0.0797	0.0780	0.095	0.15	703	810	605	635
1x400	0.0470	0.57	0.0638	0.0617	0.092	0.15	815	935	690	720
1x500	0.0366	0.64	0.0517	0.0490	0.089	0.15	945	1080	780	810

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RG16H1R12 da 1,8/3kV a 18/30 kV.

(UNIPOLARI EX RG7H1R) CPR Eca

Model Product: 7I0-7L0-7M0-7O0-7P0-7Q0 - 20201023

Formation	Electric resistance at 20°C	Capacities 50 Hz	Apparent resistance at 90°C and 50 Hz		Phase Reactance		Current carrying capacities			
			Trefoil formation	Flat	Trefoil formation	Flat	Trefoil formation in air	Flat in air	Trefoil formation in ground	Flat in ground
(N° x mmq)	(Ohm/km)	(microF/km)	(Ohm/km)	(Ohm/km)	(Ohm/km)	(Ohm/km)	(A)	(A)	(A)	(A)
1x630	0.0283	0.73	0.0425	0.0390	0.087	0.15	1085	1230	875	900

RG16H1R12 da 1,8/3kV a 18/30 kV.

(UNIPOLARI EX RG7H1R) CPR Eca

Model Product: 7I0-7L0-7M0-7O0-7P0-7Q0 - 20201023

Uo/U : 8,7/15 kV - U max : 17,5 kV(EX GRADO 24)

Conductor Number	Nominal Section	Approx conductor diameter	Approx insulation diameter	Approx external production diameter	Approx cable weight	Minimum radius bending
(N°)	(mmq)	(mm)	(mm)	(mm)	(kg/km)	(mm)
Single core						
1x	16	4.8	17.4	23.0	627	310
1x	25	6.0	17.4	24.3	746	320
1x	35	7.0	18.4	25.3	856	340
1x	50	8.1	19.5	26.3	1005	350
1x	70	9.9	21.3	28.3	1234	380
1x	95	11.5	22.9	30.3	1512	400
1x	120	12.9	24.3	31.9	1771	420
1x	150	14.2	25.6	33.3	2090	440
1x	185	15.9	27.4	35.3	2458	470
1x	240	18.3	29.8	38.3	3035	500
1x	300	20.7	32.2	40.3	3672	530
1x	400	23.5	35.0	43.3	4547	580
1x	500	26.5	38.0	47.3	5602	620
1x	630	31.2	42.7	52.3	7134	690

Nominal Section	Elettric Resistace 20°C	Capacities 50 Hz	Apparent resistance at 90°C and 50 Hz		Phase Reactance		Current carrying capacities			
			Trefoil formation	Flat	Trefoil formation	Flat	Trefoil formation in air	Flat in air	Trefoil formation in ground	Flat in ground
(N°xmmq)	(Ohm/km)	(microF/km)	(Ohm/km)	(Ohm/km)	(Ohm/km)	(Ohm/km)	(A)	(A)	(A)	(A)
Single core										
1x16	1.15	0.15	1.47	1.47	0.15	0.21	120	135	118	123
1x25	0.727	0.18	0.927	0.927	0.14	0.20	155	177	152	158
1x35	0.524	0.19	0.669	0.669	0.14	0.19	190	215	181	190
1x50	0.387	0.21	0.494	0.494	0.13	0.19	225	258	213	224
1x70	0.268	0.24	0.342	0.342	0.12	0.18	282	323	262	276
1x95	0.193	0.26	0.246	0.246	0.12	0.17	345	393	313	330
1x120	0.153	0.29	0.196	0.196	0.11	0.17	400	455	358	375
1x150	0.124	0.31	0.159	0.158	0.11	0.17	450	515	396	420
1x185	0.0991	0.34	0.128	0.127	0.11	0.16	518	590	453	475
1x240	0.0754	0.37	0.0985	0.0973	0.10	0.16	615	700	525	550
1x300	0.0601	0.42	0.0797	0.0780	0.099	0.16	704	800	590	620
1x400	0.0470	0.45	0.0638	0.0617	0.096	0.15	816	920	670	700
1x500	0.0366	0.51	0.0517	0.0490	0.092	0.15	954	1060	760	785
1x630	0.0283	0.58	0.0425	0.0390	0.090	0.15	1088	1210	850	870

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Catalogo prodotti da costruzione CPR UE305/2011

RG16H1R12 da 1,8/3kV a 18/30 kV.

(UNIPOLARI EX RG7H1R) CPR Eca

Model Product: 7I0-7L0-7M0-7O0-7P0-7Q0 - 20201023

Uo/U : 12/20 kV - U max : 24 kV(EX GRADO 32)

Conductor Number	Nominal Section	Approx conductor diameter	Approx insulation diameter	Approx external production diameter	Approx cable weight	Minimum radius bending
(N°)	(mmq)	(mm)	(mm)	(mm)	(kg/km)	(mm)
Single core						
1x	25	6.0	20.4	26.9	846	360
1x	35	7.0	20.4	27.3	945	360
1x	50	8.1	21.5	28.5	1095	380
1x	70	9.9	23.3	30.4	1343	400
1x	95	11.5	24.9	32.4	1652	430
1x	120	12.9	26.3	33.9	1920	450
1x	150	14.2	27.6	35.2	2209	470
1x	185	15.9	29.4	37.0	2587	490
1x	240	18.3	31.8	39.5	3174	530
1x	300	20.7	34.2	42.0	3821	560
1x	400	23.5	37.0	45.3	4696	610
1x	500	26.5	40.0	49.0	5771	650
1x	630	31.3	44.7	53.7	7323	730

Formation	Elettric Resistace 20°C	Capacities 50 Hz	Apparent resistance at 90°C and 50 Hz		Phase Reactance		Current carrying capacities			
			Trefoil formation	flat	Trefoil formation	Flat	Trefoil formation in air	Flat in air	Trefoil formation in ground	Flat in ground
(N° x mmq)	(Ohm/km)	(microF/km)	(Ohm/km)	(Ohm/km)	(Ohm/km)	(Ohm/km)	(A)	(A)	(A)	(A)
Single core										
1x25	0.727	0.16	0.927	0.927	0.14	0.20	158	176	153	158
1x35	0.524	0.17	0.669	0.669	0.14	0.20	190	213	182	189
1x50	0.387	0.18	0.494	0.494	0.13	0.19	230	255	216	225
1x70	0.268	0.21	0.342	0.342	0.13	0.19	285	320	265	275
1x95	0.193	0.23	0.246	0.246	0.12	0.18	348	390	315	329
1x120	0.153	0.25	0.196	0.196	0.12	0.18	400	450	360	374
1x150	0.124	0.27	0.159	0.158	0.11	0.17	450	510	402	416
1x185	0.0991	0.29	0.128	0.127	0.11	0.17	520	585	455	472
1x240	0.0754	0.32	0.0985	0.0972	0.11	0.16	615	690	528	545
1x300	0.0601	0.35	0.0797	0.0779	0.10	0.16	705	790	595	611
1x400	0.0470	0.39	0.0638	0.0616	0.099	0.16	815	910	674	690
1x500	0.0366	0.43	0.0517	0.0489	0.096	0.15	945	1050	762	776
1x630	0.0283	0.49	0.0425	0.0389	0.093	0.15	1087	1190	858	875

RG16H1R12 da 1,8/3kV a 18/30 kV.

(UNIPOLARI EX RG7H1R) CPR Eca

Model Product: 7I0-7L0-7M0-7O0-7P0-7Q0 - 20201023

Uo/U : 18/30 kV - U max : 36 kV(EX GRADO 47)

Conductor Number	Nominal Section	Approx conductor diameter	Approx insulation diameter	Approx external production diameter	Approx cable weight	Minimum radius bending
(N°)	(mmq)	(mm)	(mm)	(mm)	(kg/km)	(mm)
Single core						
1x	35	7.0	28.0	33.8	1290	450
1x	50	8.1	27.1	35.9	1420	460
1x	70	9.9	28.9	36.1	1660	470
1x	95	11.5	30.5	37.8	1980	510
1x	120	12.9	31.9	39.1	2260	520
1x	150	14.2	33.2	40.7	2560	540
1x	185	15.9	35.0	42.6	2960	570
1x	240	18.3	37.4	45.3	3610	610
1x	300	20.7	39.8	47.8	4280	640
1x	400	23.5	42.6	51.2	5200	680
1x	500	26.5	45.6	55.0	6310	730
1x	630	31.2	50.3	61.9	7930	800

Formation	Elettric Resistace 20°C	Capacities 50 Hz	Apparent resistance at 90°C and 50 Hz		Phase Reactance		Current carrying capacities			
			Trefoil formation	Flat	Trefoil formation	Flat	Trefoil formation in air	Flat in air	Trefoil formation in ground	Flat in ground
(N° x mmq)	(Ohm/km)	(microF/km)	(Ohm/km)	(Ohm/km)	(Ohm/km)	(Ohm/km)	(A)	(A)	(A)	(A)
Single core										
1x35	0.524	0.14	0.669	0.669	0.15	0.20	191	212	182	188
1x50	0.387	0.15	0.494	0.494	0.15	0.20	229	254	214	222
1x70	0.268	0.16	0.342	0.342	0.14	0.20	285	316	263	272
1x95	0.193	0.18	0.246	0.246	0.13	0.19	347	387	314	325
1x120	0.153	0.19	0.196	0.196	0.13	0.18	401	445	358	370
1x150	0.124	0.20	0.159	0.158	0.12	0.18	452	505	400	415
1x185	0.0991	0.22	0.128	0.127	0.12	0.18	520	580	453	469
1x240	0.0754	0.24	0.0985	0.0972	0.11	0.17	615	680	525	540
1x300	0.0601	0.27	0.0797	0.0779	0.11	0.17	705	775	593	606
1x400	0.0470	0.29	0.0638	0.0616	0.11	0.16	815	895	671	685
1x500	0.0366	0.32	0.0517	0.0489	0.10	0.16	943	1030	761	775
1x630	0.0283	0.36	0.0425	0.0389	0.099	0.16	1085	1170	860	875

The current carrying capacities of underground cables have been calculated with thermal resistivity of the Land 100 ° C cm / W

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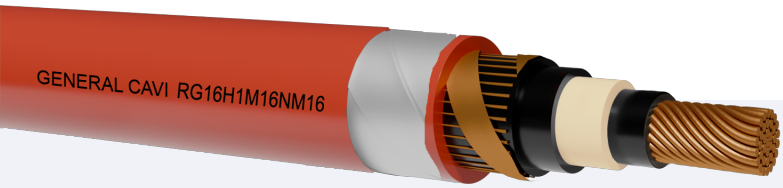
RG16H1M16NM16 3.6/6kV

CPR Cca s1,d2,a1

Model Product: - 20241129



Rigid class 2 red copper conductor.
Inner semi-conducting layer
Elastomeric mixture insulation (G16 quality).
Cold-peelable extruded elastomeric external semiconductor
Red copper wire shield.
M16+not fibruous and not hygroscopic filler
Alluminium no-magnettic armour tape.
LSZH thermoplasstic sheath (M16 / DM7E)

STANDARDS

CEI 20-13, HD 620 IEC 60502pqa
EN 50575:2014 + EN 50575/A1:2016 (IEC 60332-1-2)

COMMON FEATURES

Suitable for the transport of energy between the substations and large users.For electrical power system in constructions alnd other civil engineering bulginngs,in order to limit fire and smoke production and spread,in accordance with the CPR For free hanging, pipe or channel. Laying underground also not protected.

EMPLOYMENT

Minimum bending radius per D cable diameter (in mm): 16 D

Maximum pulling stress: 60 N/mm

PACKING

Packaging and minimal quantity to agree

MEDIOM VOLTAGE

Nominal voltage U0: 3.6 kV
Nominal voltage U: 6kV
Maximun voltage Um: 7,2 kV
Maximun operating temperature: +90°C
Maximun short circuit temperature: +250°C
Minimum installation and laying temperature: 0°C
Min. operating temperature (without mechanical shocks): -15°C

CORE COLOURS

Single core: Bianco

SHEATH COLOUR

Red

INK MARKING

GENERAL CAVI Cca ,s1,d2,a1 RG16H1M16NM16 3,6/6 kV OL

RG16H1M16NM16 3.6/6kV

CPR Cca s1,d2,a1

Model Product: - 20241129

Uo/U : 3,6/6 kV - U max : 7,2 kV(EX GRADO 11)

Conductor number	Nominal cross section	Approx cond. diameter	Insulation diameter	Approx overall diameter	Approx cable weight	Minimum radius bending
(N.)	(mm2)	(mm)	(mm)	(mm)	(kg/km)	(mm)
Single core						
1x	400	23.5	32.4	48.05	5180	760

Formation	Electric resistance at 20°C	Capacities 50 Hz	Apparent resistance at 90°C and 50 Hz		Phase Reactance		Current carrying capacities			
			Trefoil formation	Flat	Trefoil formation	Flat	Trefoil formation in air	Flat in air	Trefoil formation in ground	Flat in ground
(N° x mmq)	(Ohm/km)	(microF/km)	(Ohm/km)	(Ohm/km)	(Ohm/km)	(Ohm/km)	(A)	(A)	(A)	(A)
Single core										
1x400	0.0470	0.757	0.0638	0.0617	0.092	0.15	815	935	690	720

The current carrying capacities of underground cables have been calculated with thermal resistivity of the Land 100 ° C cm / W

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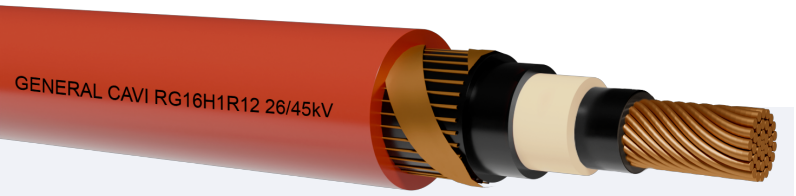
RG16H1R12 26/45kV.

(ALTA TENSIONE)CPR Eca

Model Product: 7R0 - 20200415



Rigid class 2 red copper conductor.
Inner semi-conducting layer
Elastomeric mixture insulation (G16 quality).
Cold-peelable extruded elastomeric external semiconductor
Red copper wire shield.
Sheath of PVC R12 type. For MT

STANDARDS

CEI 20-16 PQA IEC 60840 PQA IEC 60502pqa, CEI 20-13pqa, HD 620pqa
EN 50575:2014 + EN 50575/A1:2016 (IEC 60332-1-2)

COMMON FEATURES

Suitable for the transport of energy between the substations and large users,For free-hanging, tube or channel.Laying underground in accordance with Art. 4.3.11 of IEC 11-17

EMPLOYMENT

Minimum bending radius per D cable diameter (in mm): 12 D

Maximum pulling stress: 60 N/mm²

PACKING

Drums to agree.

Cables for connections between substations and large users

Nominal voltage U0: 26 kV

Nominal voltage U: 45 kV

Maximun voltage Um: 52 kV

Maximun operating temperature: +105°C

Maximun short circuit temperature: +300°C

Minimum installation and laying temperature: 0°C

Min. operating temperature (without mechanical shocks): -15°C

CORE COLOURS

Single core: pink

SHEATH COLOUR

Red

RG16H1R12 26/45kV.

(ALTA TENSIONE)CPR Eca

Model Product: 7R0 - 20200415

ALTA TENSIONE RG16H1R12 Uo/U : 26/45 kV - U max : 52 kV (EX GRADO 67)

Conductor Number	Nominal Section	Approx conductor diameter	Approx insulation diameter	Approx external production diameter	Approx cable weight	Minimum radius bending
(N°)	(mmq)	(mm)	(mm)	(mm)	(kg/km)	(mm)
Single core						
1x	50	8.1	30.2	40.0	1800	480
1x	70	9.9	33.3	43.0	1990	550
1x	95	11.5	34.9	44.0	2300	580
1x	120	12.9	36.5	45.6	2630	585
1x	150	14.2	36.85	46.0	2790	590
1x	185	15.9	38.85	47.0	3200	610
1x	240	18.3	40.95	49.5	3820	650
1x	300	20.7	43.4	53.0	4640	690
1x	400	23.5	46.2	56.0	5430	730
1x	500	26.5	49.3	59.0	6600	770
1x	630	31.2	53.3	64.0	8200	850

Formation	Electric resistance at 20°C	Capacities 50 Hz	Apparent resistance at 105°C and 50 Hz		Phase Reactance		Current carrying capacities			
			Trefoil formation	Flat	Trefoil formation	Flat	Trefoil formation in air	Flat in air	Trefoil formation in ground	Flat in ground
(N°xmmq)	(Ohm/km)	(microF/km)	(Ohm/km)	(Ohm/km)	(Ohm/km)	(Ohm/km)	(A)	(A)	(A)	(A)
Single core										
1x50	0.387	0.15	0.494	0.494	0.15	0.20	225	250	205	212
1x70	0.268	0.15	0.342	0.342	0.15	0.21	280	315	255	260
1x95	0.193	0.16	0.246	0.246	0.14	0.20	340	380	300	310
1x120	0.153	0.18	0.196	0.196	0.14	0.20	395	440	355	365
1x150	0.124	0.20	0.159	0.158	0.13	0.19	445	495	385	395
1x185	0.0991	0.21	0.128	0.127	0.13	0.19	510	570	440	450
1x240	0.0754	0.23	0.0985	0.0972	0.12	0.18	600	665	510	520
1x300	0.0601	0.26	0.0797	0.0779	0.12	0.18	695	760	570	580
1x400	0.0470	0.28	0.0638	0.0616	0.11	0.17	800	875	650	655
1x500	0.0366	0.31	0.0517	0.0489	0.11	0.17	930	1010	735	740
1x630	0.0283	0.34	0.0425	0.0389	0.10	0.16	1070	1180	835	845

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RG16H1OR12 da 1,8/3 kV a 26/45 kV

(TRIPOLARI) CPR Eca

Model Product: 7I1-7L1-7M1-7N1-7O1-7P1-7Q1-7R1 - 20201120

Rigid class 2 red copper conductor.
Inner semi-conducting layer
Elastomeric mixture insulation (G16 quality).
Outer semi-conducting layer special high module hepr for 1.8 / 3 kV only on request
Two alternaded copper tapes screen
Not fibrous and not hygroscopic filler
Sheath of PVC R12 type. For MT

STANDARDS

CEI 20-13, IEC 60502 CEI 20-16 (IEC 60840 per 26/45 kV)
EN 50575:2014 + EN 50575/A1:2016 (IEC 60332-1-2)

COMMON FEATURES

Suitable for the transport of energy between the substations and large users. For free-hanging, tube or channel. Also allowed for laying underground unprotected AD7.

EMPLOYMENT

Minimum bending radius per D cable diameter (in mm): 12 D

Maximum pulling stress: 60 N/mmq

MV cables rubber insulated pole HEPR G7 quality, PVC sheathed.

Nominal voltage U0: da 1,8kV a 26 kV
Nominal voltage U: da 3 kV a 45 kV
Maximun voltage Um: da 3,6 kV a 52 kV
Maximun operating temperature: +90°C
Maximun short circuit temperature: +250°C
Minimum installation and laying temperature: 0°C
Min. operating temperature (without mechanical shocks): -15°C

CORE COLOURS

Three cores: Identification of phases: colored ribbons or wires

SHEATH COLOUR

Red

INK MARKING

GENERAL CAVI Eca RG16H1OR12 (VOLTAGE INSULATION) 3x (SECTION) YEAR BUILT LOT OF WORK

RG16H1OR12 da 1,8/3 kV a 26/45 kV

(TRIPOLARI) CPR Eca

Model Product: 7I1-7L1-7M1-7N1-7O1-7P1-7Q1-7R1 - 20201120

Uo/U : 1,8/3 kV - U max : 3,6 kV(EX GRADO 8)

Conductor Number	Nominal Section	Approx conductor diameter	Approx insulation diameter	Approx external production diameter	Approx cable weight	Minimum radius bending
(N°)	(mmq)	(mm)	(mm)	(mm)	(kg/km)	(mm)
Three cores						
3x	10	4.0	8.0	27.25	904	330
3x	16	4.8	8.8	29.5	1155	360
3x	25	6.0	10.0	32.5	1575	390
3x	35	7.0	11.0	34.5	1952	430
3x	50	8.1	12.1	37.2	2338	470
3x	70	9.9	13.9	41.4	3150	530
3x	95	11.5	15.5	45.0	4024	570
3x	120	12.9	16.9	48.7	4918	620
3x	150	14.2	18.2	52.2	5791	660
3x	185	15.9	19.9	56.5	7086	720
3x	240	18.3	22.3	62.0	8975	800
3x	300	20.7	24.7	67.35	11069	870
3x	400	23.5	27.5	74.2	13756	950

Formation	Elettric Resistace 20°C	Capacities 50 Hz	Apparent resistance at 90°C and 50 Hz	Phase Reactance	Current carrying capacities	
					In air	In ground
(N° x mmq)	(Ohm/km)	(microF/km)	(Ohm/km)	(Ohm/km)	(A)	(A)
Three cores						
3x10	1.83	0.19	2.34	0.11	85	93
3x16	1.15	0.23	1.47	0.10	109	120
3x25	0.727	0.27	0.927	0.097	145	155
3x35	0.524	0.30	0.669	0.093	175	185
3x50	0.387	0.34	0.494	0.088	208	216
3x70	0.268	0.40	0.342	0.084	260	265
3x95	0.193	0.45	0.247	0.081	318	315
3x120	0.153	0.50	0.197	0.079	367	360
3x150	0.124	0.55	0.159	0.077	415	400
3x185	0.0991	0.60	0.129	0.076	476	453
3x240	0.0754	0.68	0.0990	0.074	555	520
3x300	0.0601	0.75	0.0807	0.072	635	585
3x400	0.0470	0.83	0.0651	0.071	716	651

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RG16H1OR12 da 1,8/3 kV a 26/45 kV

(TRIPOLARI) CPR Eca

Model Product: 7I1-7L1-7M1-7N1-7O1-7P1-7Q1-7R1 - 20201120

Uo/U : 3,6/6 kV - U max : 7,2 kV(EX GRADO 11)

Conductor Number	Nominal Section	Approx conductor diameter	Approx insulation diameter	Approx external production diameter	Approx cable weight	Minimum radius bending
(N°)	(mmq)	(mmq)	(mm)	(mm)	(kg/km)	(mm)
Three cores						
3x	10	4.0	11.6	31.8	1287	400
3x	16	4.8	12.4	34.4	1530	420
3x	25	6.0	13.6	37.4	1980	470
3x	35	7.0	14.6	39.7	2406	500
3x	50	8.1	15.7	42.8	2896	530
3x	70	9.9	17.5	46.3	3663	570
3x	95	11.5	19.1	50.0	4653	640
3x	120	12.9	20.5	54.2	5544	680
3x	150	14.2	21.8	57.3	6435	720
3x	185	15.9	23.6	61.5	7821	780
3x	240	18.3	26.0	66.8	9900	860
3x	300	20.7	28.4	72.9	12375	930
3x	400	23.5	32.4	78.2	15420	997

Formation	Elettric Resistace 20°C	Capacities 50 Hz	Apparent resistance at 90°C and 50 Hz	Phase Reactance	Current carrying capacities	
					In air	In ground
(N° x mmq)	(Ohm/km)	(microF/km)	(Ohm/km)	(Ohm/km)	(A)	(A)
Three cores						
3x10	1.83	0.15	2.34	0.12	85	93
3x16	1.15	0.17	1.47	0.12	109	120
3x25	0.727	0.20	0.927	0.11	145	153
3x35	0.524	0.23	0.669	0.10	175	183
3x50	0.387	0.26	0.494	0.097	211	216
3x70	0.268	0.30	0.342	0.092	262	263
3x95	0.193	0.33	0.247	0.089	318	315
3x120	0.153	0.37	0.197	0.086	370	359
3x150	0.124	0.40	0.159	0.084	415	400
3x185	0.0991	0.44	0.129	0.082	477	451
3x240	0.0754	0.49	0.0990	0.079	555	518
3x300	0.0601	0.54	0.0807	0.077	635	583
3x400	0.0470	0.60	0.0651	0.075	717	651

RG16H1OR12 da 1,8/3 kV a 26/45 kV

(TRIPOLARI) CPR Eca

Model Product: 7I1-7L1-7M1-7N1-7O1-7P1-7Q1-7R1 - 20201120

Uo/U : 6/10 kV - U max : 12 kV(EX GRADO 17)

Conductor Number	Nominal Section	Approx conductor diameter	Approx insulation diameter	Approx external production diameter	Approx cable weight	Minimum radius bending
(N°)	(mmq)	(mm)	(mm)	(mm)	(kg/km)	(mm)
Three cores						
3x	10	4.0	14.2	36.9	1791	490
3x	16	4.8	14.2	39.0	2070	530
3x	25	6.0	15.4	42.0	2497	550
3x	35	7.0	16.4	44.0	2945	590
3x	50	8.1	17.5	47.0	3463	620
3x	70	9.9	19.3	51.0	4378	680
3x	95	11.5	20.9	55.0	5403	750
3x	120	12.9	22.3	57.1	6358	780
3x	150	14.2	23.6	62.0	7413	820
3x	185	15.9	25.4	66.0	8806	880
3x	240	18.3	27.8	72.1	10935	960
3x	300	20.7	30.2	77.8	13293	1040
3x	400	23.5	34.5	84.5	15900	1050

Formation	Electric resistance at 20°C	Capacities 50 Hz	Apparent resistance at 90°C and 50 Hz	Phase Reactance	Current carrying capacities	
					In air	In ground
(N° x mmq)	(Ohm/km)	(microF/km)	(Ohm/km)	(Ohm/km)	(A)	(A)
Three cores						
3x10	1.83	0.16	2.34	0.14	73	78
3x16	1.15	0.18	1.47	0.13	107	112
3x25	0.727	0.21	0.927	0.12	145	149
3x35	0.524	0.23	0.669	0.11	175	178
3x50	0.387	0.26	0.494	0.11	208	210
3x70	0.268	0.29	0.342	0.10	260	257
3x95	0.193	0.32	0.247	0.097	316	307
3x120	0.153	0.36	0.197	0.094	365	350
3x150	0.124	0.38	0.159	0.091	407	390
3x185	0.0991	0.42	0.129	0.088	469	440
3x240	0.0754	0.47	0.0990	0.085	550	510
3x300	0.0601	0.52	0.0807	0.084	630	580
3x400	0.0470	0.57	0.0651	0.082	720	655

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RG16H1OR12 da 1,8/3 kV a 26/45 kV

(TRIPOLARI) CPR Eca

Model Product: 7I1-7L1-7M1-7N1-7O1-7P1-7Q1-7R1 - 20201120

Uo/U : 8,7/15 kV - U max : 17,5 kV(EX GRADO 24)

Conductor Number	Nominal Section	Approx conductor diameter	Approx insulation diameter	Approx external production diameter	Approx cable weight	Minimum radius bending
(N°)	(mmq)	(mm)	(mm)	(mm)	(kg/km)	(mm)
Three cores						
3x	16	4.8	17.4	45.5	2567	600
3x	25	6.0	17.4	48.0	3025	630
3x	35	7.0	18.4	51.2	3512	670
3x	50	8.1	19.5	53.5	4109	710
3x	70	9.9	21.3	58.0	5035	760
3x	95	11.5	22.9	61.5	6119	820
3x	120	12.9	24.3	65.0	7094	870
3x	150	14.2	25.6	68.2	8199	900
3x	185	15.9	27.4	72.5	9652	960
3x	240	18.3	29.8	78.2	11860	1040
3x	300	20.7	32.2	78.6	14189	1110

Formation	Electric resistance at 20°C	Capacities 50 Hz	Apparent resistance at 90°C and 50 Hz	Phase Reactance	Current carrying capacities	
					In air	In ground
(N° x mmq)	(Ohm/km)	(microF/km)	(Ohm/km)	(Ohm/km)	(A)	(A)
Three cores						
3x16	1,15	0.15	1,47	0,14	98	101
3x25	0.727	0.18	0.927	0.13	145	145
3x35	0.524	0.19	0.669	0.12	177	173
3x50	0.387	0.21	0.494	0.12	210	204
3x70	0.268	0.24	0.342	0.11	262	250
3x95	0.193	0.26	0.247	0.10	315	298
3x120	0.153	0.29	0.197	0.10	361	339
3x150	0.124	0.31	0.159	0.097	407	378
3x185	0.0991	0.34	0.129	0.094	470	429
3x240	0.0754	0.37	0.0990	0.090	550	500
3x300	0.0601	0.42	0.0807	0.088	630	565

RG16H1OR12 da 1,8/3 kV a 26/45 kV

(TRIPOLARI) CPR Eca

Model Product: 7I1-7L1-7M1-7N1-7O1-7P1-7Q1-7R1 - 20201120

Uo/U : 12/20 kV - U max : 24 kV(EX GRADO 32)

Conductor Number	Nominal Section	Approx conductor diameter	Approx insulation diameter	Approx external production diameter	Approx cable weight	Minimum radius bending
(N°)	(mmq)	(mm)	(mm)	(mm)	(kg/km)	(mm)
Three cores						
3x	25	6.0	20.4	54.8	3532	720
3x	35	7.0	20.4	57.6	4050	740
3x	50	8.1	21.5	60.1	4637	770
3x	70	9.9	23.3	64.5	5652	830
3x	95	11.5	24.9	69.5	6786	880
3x	120	12.9	26.3	74.8	7791	920
3x	150	14.2	27.6	75.0	8925	970
3x	185	15.9	29.4	80.3	10428	1030
3x	240	18.3	31.8	84.0	12627	1100
3x	300	20.7	34.2	91.5	15094	1180

Formation	Elettric Resistace 20°C	Capacities 50 Hz	Apparent resistance at 90°C and 50 Hz	Phase Reactance	Current carrying capacities	
					In air	In ground
(N° x mmq)	(Ohm/km)	(microF/km)	(Ohm/km)	(Ohm/km)	(A)	(A)
Three cores						
3x25	0.727	0.15	0.927	0.14	145	148
3x35	0.524	0.17	0.669	0.13	177	175
3x50	0.387	0.18	0.494	0.12	210	207
3x70	0.268	0.21	0.342	0.11	262	253
3x95	0.193	0.23	0.247	0.10	315	301
3x120	0.153	0.25	0.197	0.10	361	342
3x150	0.124	0.27	0.159	0.10	407	381
3x185	0.0991	0.29	0.129	0.098	470	431
3x240	0.0754	0.32	0.0990	0.094	550	500
3x300	0.0601	0.35	0.0807	0.092	630	562

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RG16H1OR12 da 1,8/3 kV a 26/45 kV

(TRIPOLARI) CPR Eca

Model Product: 7I1-7L1-7M1-7N1-7O1-7P1-7Q1-7R1 - 20201120

Uo/U : 18/30 kV - U max : 36 kV(EX GRADO 47)

Conductor Number	Nominal Section	Approx conductor diameter	Approx insulation diameter	Approx external production diameter	Approx cable weight	Minimum radius bending
(N°)	(mmq)	(mm)	(mm)	(mm)	(kg/km)	(mm)
Three cores						
3x	35	7.0	28.0	70.6	5910	920
3x	50	8.1	27.1	72.0	6420	940
3x	70	9.9	28.9	75.9	7500	1000
3x	95	11.5	30.5	80.1	8740	1050
3x	120	12.9	31.9	83.2	9840	1090
3x	150	14.2	33.2	86.9	11070	1140
3x	185	15.9	35.0	91.0	12730	1200
3x	240	18.3	37.4	96.3	15060	1270

Formation	Electric resistance at 20°C	Capacities 50 Hz	Apparent resistance at 90°C and 50 Hz	Phase Reactance	Current carrying capacities	
					In air	In ground
(N° x mmq)	(Ohm/km)	(microF/km)	(Ohm/km)	(Ohm/km)	(A)	(A)
Three cores						
3x35	0.524	0.14	0.669	0.14	177	174
3x50	0.387	0.15	0.494	0.13	210	205
3x70	0.268	0.16	0.342	0.13	260	250
3x95	0.193	0.18	0.247	0.12	315	300
3x120	0.153	0.19	0.197	0.12	360	340
3x150	0.124	0.20	0.159	0.11	405	380
3x185	0.0991	0.22	0.129	0.11	465	430
3x240	0.0754	0.24	0.0990	0.10	545	496

RG16H1OR12 da 1,8/3 kV a 26/45 kV

(TRIPOLARI) CPR Eca

Model Product: 7I1-7L1-7M1-7N1-7O1-7P1-7Q1-7R1 - 20201120

ALTA TENSIONE Uo/U : 26/45 kV - U max : 52 kV (EX GRADO 67)

Conductor Number	Nominal Section	Approx conductor diameter	Approx insulation diameter	Approx external production diameter	Approx cable weight	Minimum radius bending
(N°)	(mmq)	(mm)	(mm)	(mm)	(kg/km)	(mm)
Three cores						
3x	70	9.9	33.3	86.0	9130	1160
3x	95	11.5	34.9	91.0	10450	1210
3x	120	12.9	36.5	94.3	11650	1260
3x	150	14.2	36.85	92.7	12000	1230
3x	185	15.9	38.85	97.0	13570	1290

Formation	Elettric Resistace 20°C	Capacities 50 Hz	Apparent resistance at 90°C and 50 Hz	Phase Reactance	Current carrying capacities	
					In air	In ground
(N° x mmq)	(Ohm/km)	(microF/km)	(Ohm/km)	(Ohm/km)	(A)	(A)
Three cores						
3x70	0.268	0.15	0.342	0.14	255	241
3x95	0.193	0.16	0.247	0.13	308	288
3x120	0.153	0.17	0.196	0.13	353	327
3x150	0.124	0.19	0.160	0.12	398	366
3x185	0.0991	0.21	0.129	0.12	457	416

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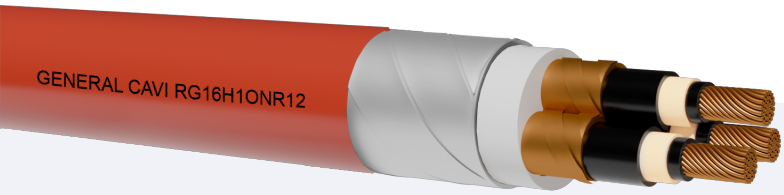
RG16H1ONR12 da 1,8/3 kV a 26/45 kV

(TRIPOLARI ARMATI)CPR Eca

Model Product: 7I2-7L2-7M2-7N2-7O2-7P2-7Q2-7R2 - 20201120



Rigid class 2 red copper conductor.
Inner semi-conducting layer
Elastomeric mixture insulation (G16 quality).
Outer semi-conducting layer special high module hepr for 1.8 / 3 kV only on request
Two alternaded copper tapes screen
PVC+not fibruous and not hygroscopic filler
Galvanized steel tapes armour.
Sheath of PVC R12 type. For MT

STANDARDS

CEI 20-13, IEC 60502 CEI 20-16 (IEC 60840 per 26/45 kV)
EN 50575:2014 + EN 50575/A1:2016 (IEC 60332-1-2)

COMMON FEATURES

Suitable for the transport of energy between the substations and large users. For free-hanging, tube or channel. Also allowed for laying underground unprotected.

EMPLOYMENT

Minimum bending radius per D cable diameter (in mm): 16 D

Maximum pulling stress: 60 N/mmq

MEDIUM VOLTAGE CABLE RUBBER INSULATED HEPR QUALITY G16 ARMOUR TO STRIP STEEL GALVANIZED PVC SHEATHEDB R12

Nominal voltage U0: da 1,8kV a 26 kV
Nominal voltage U: da 3 kV a 45 kV
Maximun voltage Um: da 3,6 kV a 52 kV
Maximun operating temperature: +90°C
Maximun short circuit temperature: +250°C
Minimum installation and laying temperature: 0°C
Min. operating temperature (without mechanical shocks): -15°C

CORE COLOURS

Three cores: Identification of phases: colored ribbons or wires

SHEATH COLOUR

Red

INK MARKING

GENERAL CAVI Eca RG16H1ONR12(VOLTAGE INSULATION) 3x (SECTION) YEAR BUILT LOT OF WORK

RG16H1ONR12 da 1,8/3 kV a 26/45 kV

(TRIPOLARI ARMATI)CPR Eca

Model Product: 7I2-7L2-7M2-7N2-7O2-7P2-7Q2-7R2 - 20201120

Uo/U : 1,8/3 kV - U max : 3,6 kV (EX GRADO 8)

Conductor Number	Nominal Section	Approx conductor diameter	Approx insulation diameter	Approx external production diameter	Approx cable weight	Minimum radius bending
(N°)	(mmq)	(mm)	(mm)	(mm)	(kg/km)	(mm)
Three cores						
3x	10	4.0	8.0	30.5	1343	488
3x	16	4.8	8.8	32.7	1642	523
3x	25	6.0	10.0	35.7	1990	571
3x	35	7.0	11.0	37.7	2388	603
3x	50	8.1	12.1	40.4	2985	646
3x	70	9.9	13.9	44.5	3861	712
3x	95	11.5	15.5	48.2	4876	771
3x	120	12.9	16.9	51.9	5871	830
3x	150	14.2	18.2	55.4	6915	886
3x	185	15.9	19.9	59.7	8278	955
3x	240	18.3	22.3	64.8	10398	1037
3x	300	20.7	24.7	70.5	13154	1128
3x	400	23.5	27.5	77.4	15821	1238

Formation	Elettric Resistace 20°C	Capacities 50 Hz	Apparent resistance at 90°C and 50 Hz	Phase Reactance	Current carrying capacities	
					In air	In ground
(N° x mmq)	(Ohm/km)	(microF/km)	(Ohm/km)	(Ohm/km)	(A)	(A)
Three cores						
3x10	1.83	0.19	2.34	0.11	81	89
3x16	1,15	0.23	1.47	0.10	105	115
3x25	0.727	0.27	0.927	0.097	138	148
3x35	0.524	0.30	0.669	0.093	166	175
3x50	0.387	0.34	0.494	0.088	200	208
3x70	0.268	0.40	0.342	0.084	250	255
3x95	0.193	0.45	0.247	0.081	305	303
3x120	0.153	0.50	0.197	0.079	351	345
3x150	0.124	0.55	0.159	0.077	398	385
3x185	0.0991	0.60	0.129	0.076	455	435
3x240	0.0754	0.68	0.0990	0.074	540	505
3x300	0.0601	0.75	0.0807	0.072	615	565
3x400	0.0470	0.83	0.0651	0.071	715	645

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RG16H1ONR12 da 1,8/3 kV a 26/45 kV

(TRIPOLARI ARMATI)CPR Eca

Model Product: 7I2-7L2-7M2-7N2-7O2-7P2-7Q2-7R2 - 20201120

Uo/U : 3,6/6 kV - U max : 7,2 kV (EX GRADO 11)

Conductor Number	Nominal Section	Approx conductor diameter	Approx insulation diameter	Approx external production diameter	Approx cable weight	Minimum radius bending
(N°)	(mmq)	(mm)	(mm)	(mm)	(kg/km)	(mm)
Three cores						
3x	10	4.0	11.6	36.0	1525	576
3x	16	4.8	12.4	37.6	1812	602
3x	25	6.0	13.6	40.6	2267	650
3x	35	7.0	14.6	42.9	2723	686
3x	50	8.1	15.7	45.8	3544	733
3x	70	9.9	17.5	49.5	4455	792
3x	95	11.5	19.1	53.5	4554	856
3x	120	12.9	20.5	57.4	6336	918
3x	150	14.2	21.8	60.5	7623	968
3x	185	15.9	23.6	64.6	9009	1034
3x	240	18.3	26.0	70.0	11187	1120
3x	300	20.7	28.4	76.1	13662	1218
3x	400	23.5	32.4	82.5	16731	1320

Formation	Electrc Resistance	Capacities 50 Hz	Apparent resistance at 90°C and 50 Hz	Phase Reactance	Current carrying capacities	
					In air	In ground
(N° x mmq)	(Ohm/km)	(microF/km)	(Ohm/km)	(Ohm/km)	(A)	(A)
Three cores						
3x10	1,83	0.15	2.34	0.12	78	85
3x16	1.15	0.17	1.47	0.12	103	108
3x25	0,727	0.20	0.927	0.11	130	138
3x35	0.524	0.23	0.669	0.10	160	165
3x50	0.387	0.26	0.494	0.097	190	195
3x70	0.268	0.30	0.342	0.092	235	240
3x95	0.193	0.33	0.247	0.089	285	285
3x120	0.153	0.37	0.197	0.086	330	330
3x150	0.124	0.40	0.159	0.084	373	365
3x185	0.0991	0.44	0.129	0.082	430	415
3x240	0.0754	0.49	0.0990	0.079	503	480
3x300	0.0601	0.54	0.0807	0.077	577	540
3x400	0.0470	0.60	0.0651	0.075	670	620

RG16H1ONR12 da 1,8/3 kV a 26/45 kV

(TRIPOLARI ARMATI)CPR Eca

Model Product: 7I2-7L2-7M2-7N2-7O2-7P2-7Q2-7R2 - 20201120

Uo/U : 6/10 kV - U max : 12 kV (EX GRADO 17)

Conductor Number	Nominal Section	Approx conductor diameter	Approx insulation diameter	Approx external production diameter	Approx cable weight	Minimum radius bending
(N°)	(mmq)	(mm)	(mm)	(mm)	(kg/km)	(mm)
Three cores						
3x	10	4.0	14.2	39.4	2607	630
3x	16	4.8	14.2	41.7	2965	667
3x	25	6.0	15.4	44.3	3453	709
3x	35	7.0	16.4	47.6	4040	762
3x	50	8.1	17.5	50.1	4617	802
3x	70	9.9	19.3	54.6	5622	874
3x	95	11.5	20.9	58.5	6746	936
3x	120	12.9	22.3	62.1	7831	994
3x	150	14.2	23.6	65.4	8965	1046
3x	185	15.9	25.4	69.2	10408	1107
3x	240	18.3	27.8	75.5	12756	1208
3x	300	20.7	30.2	81.5	15258	1304
3x	400	23.9	33.5	88.3	18810	1412

Formation	Electric resistance at 20°C	Capacities 50 Hz	Apparent resistance at 90°C and 50 Hz	Phase Reactance	Current carrying capacities	
					In air	In ground
(N° x mmq)	(Ohm/km)	(microF/km)	(Ohm/km)	(Ohm/km)	(A)	(A)
Three cores						
3x16	1.15	0.15	1.47	0.14	95	98
3x25	0.727	0.18	0.927	0.13	142	140
3x35	0.524	0.19	0.669	0.12	171	168
3x50	0.387	0.21	0.494	0.12	205	200
3x70	0.268	0.24	0.342	0.11	252	245
3x95	0.193	0.26	0.247	0.10	303	290
3x120	0.153	0.29	0.197	0.10	347	327
3x150	0.124	0.31	0.159	0.097	390	365
3x185	0.0991	0.34	0.129	0.094	446	413
3x240	0.0754	0.37	0.0990	0.090	520	476
3x300	0.0601	0.42	0.0807	0.088	595	535
3x400	0.0470	0.44	0.0651	0.086	675	620

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RG16H1ONR12 da 1,8/3 kV a 26/45 kV

(TRIPOLARI ARMATI)CPR Eca

Model Product: 7I2-7L2-7M2-7N2-7O2-7P2-7Q2-7R2 - 20201120

Uo/U : 8,7/15 kV - U max : 17,5 kV (EX GRADO 24)

Conductor Number	Nominal Section	Approx cond. diameter	Approx insulation diameter	Approx external diameter	Approx cable weight	Minimum radius bending
(N°)	(mmq)	(mm)	(mm)	(mm)	(kg/km)	(mm)
Three cores						
3x	16	4.8	17.4	49.5	3632	670
3x	25	6.0	17.4	50.5	4189	710
3x	35	7.0	18.4	52.5	4746	750
3x	50	8.1	19.5	55.5	5343	780
3x	70	9.9	21.3	60.0	6487	840
3x	95	11.5	22.9	63.0	7671	900
3x	120	12.9	24.3	67.0	8726	940
3x	150	14.2	25.6	70.0	9980	990
3x	185	15.9	27.4	73.5	11464	1040
3x	240	18.3	29.8	80.0	13811	1120

Formation	Electric resistance at 20°C	Capacities 50 Hz	Apparent resistance at 90°C and 50 Hz	Phase Reactance	Current carrying capacities	
					Flat in air	In ground
(N°xmmq)	(Ohm/km)	(microF/km)	(Ohm/km)	(Ohm/km)	(A)	(A)
Three cores						
3x16	1.15	0.15	1.47	0.14	95	98
3x25	0.727	0.18	0.927	0.13	142	140
3x35	0.524	0.19	0.669	0.12	171	168
3x50	0.387	0.21	0.494	0.12	205	200
3x70	0.268	0.24	0.342	0.11	252	245
3x95	0.193	0.26	0.247	0.10	303	290
3x120	0.153	0.29	0.197	0.10	347	327
3x150	0.124	0.31	0.159	0.097	390	365
3x185	0.0991	0.34	0.129	0.094	446	413
3x240	0.0754	0.37	0.0990	0.090	520	476

RG16H1ONR12 da 1,8/3 kV a 26/45 kV

(TRIPOLARI ARMATI)CPR Eca

Model Product: 7I2-7L2-7M2-7N2-7O2-7P2-7Q2-7R2 - 20201120

Uo/U : 12/20 kV - U max : 24 kV (EX GRADO 32)

Conductor Number	Nominal Section	Approx conductor diameter	Approx insulation diameter	Approx external production diameter	Approx cable weight	Minimum radius bending
(N°)	(mmq)	(mm)	(mm)	(mm)	(kg/km)	(mm)
Three cores						
3x	25	6.0	20.4	57.6	4826	921
3x	35	7.0	20.4	58.3	5393	933
3x	50	8.1	21.5	61.2	6099	979
3x	70	9.9	23.3	65.6	7214	1050
3x	95	11.5	24.9	69.7	8448	1115
3x	120	12.9	26.3	73.2	9602	1173
3x	150	14.2	27.6	76.5	10826	1218
3x	185	15.9	29.4	80.5	12338	1288
3x	240	18.3	31.8	86.8	14510	1389
3x	300	20.7	34.2	93.5	17300	1496

Formation	Electric resistance at 20°C	Capacities 50 Hz	Apparent resistance at 90°C and 50 Hz	Phase Reactance	Current carrying capacities	
					In air	In ground
(N° x mmq)	(Ohm/km)	(microF/km)	(Ohm/km)	(Ohm/km)	(A)	(A)
Three cores						
3x25	0.727	0.18	0.927	0.14	141	150
3x35	0.524	0.17	0.0669	0.13	173	177
3x50	0.387	0.19	0.494	0.12	203	208
3x70	0.268	0.21	0.342	0.11	251	255
3x95	0.193	0.23	0.247	0.11	303	301
3x120	0.153	0.25	0.197	0.10	348	342
3x150	0.124	0.27	0.159	0.10	393	381
3x185	0.0991	0.29	0.129	0.098	448	431
3x240	0.0754	0.33	0.0990	0.094	520	495
3x300	0.0601	0.36	0.0807	0.092	595	555

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RG16H1ONR12 da 1,8/3 kV a 26/45 kV

(TRIPOLARI ARMATI)CPR Eca

Model Product: 7I2-7L2-7M2-7N2-7O2-7P2-7Q2-7R2 - 20201120

Uo/U : 18/30 kV - U max : 36 kV (EX GRADO 47)

Conductor Number	Nominal Section	Approx conductor diameter	Approx insulation diameter	Approx external production diameter	Approx cable weight	Minimum radius bending
(N°)	(mmq)	(mm)	(mm)	(mm)	(kg/km)	(mm)
Three cores						
3x	35	7.0	28.0	75.5	7760	1208
3x	50	8.1	27.1	76.0	8210	1216
3x	70	9.9	28.9	78.0	9460	1248
3x	95	11.5	30.5	81.0	10810	1296
3x	120	12.9	31.9	84.5	12080	1352
3x	150	14.2	33.2	89.0	13420	1424
3x	185	15.9	35.0	93.0	15070	1488
3x	240	18.3	37.4	98.0	17550	1568

Formation	Electric resistance at 20°C	Capacities 50 Hz	Apparent resistance at 90°C and 50 Hz	Phase Reactance	Current carrying capacities	
					In air	In ground
(N° x mmq)	(Ohm/km)	(microF/km)	(Ohm/km)	(0hm/km)	(A)	(A)
Three cores						
3x35	0.524	0.14	0.669	0.14	172	175
3x50	0.387	0.15	0.494	0.13	202	205
3x70	0.268	0.16	0.342	0.13	250	252
3x95	0.193	0.18	0.247	0.12	302	300
3x120	0.153	0.19	0.197	0.12	345	340
3x150	0.124	0.20	0.159	0.11	390	378
3x185	0.0991	0.22	0.129	0.11	445	428
3x240	0.0754	0.24	0.0990	0.10	520	491

RG16H1ONR12 da 1,8/3 kV a 26/45 kV

(TRIPOLARI ARMATI)CPR Eca

Model Product: 7I2-7L2-7M2-7N2-7O2-7P2-7Q2-7R2 - 20201120

Uo/U : 26/45 kV - U max : 52 kV (EX GRADO 67)

Conductor Number	Nominal Section	Approx conductor diameter	Approx insulation diameter	Approx external production diameter	Approx cable weight	Minimum radius bending
(N°)	(mmq)	(mm)	(mm)	(mm)	(kg/km)	(mm)
Three cores						
3x	70	9.9	33.3	92.7	9157	1483
3x	95	11.6	34.9	95.6	10500	1530
3x	120	13.1	36.9	98.7	11980	1579
3x	150	14.4	36.8	100,3	12450	1605
3x	185	16.1	38.8	103.9	13990	1662

Formation	Electric resistance at 20°C	Capacities 50 Hz	Apparent resistance at 90°C and 50 Hz	Phase Reactance	Current carrying capacities	
					In air	In ground
(N°xmmq)	(Ohm/km)	(microF/km)	(Ohm/km)	(Ohm/km)	(A)	(A)
Three cores						
3x70	0.268	0.21	0.343	0.14	255	241
3x95	0.193	0.20	0.247	0.13	308	288
3x120	0.153	0.19	0.196	0.13	353	327
3x150	0.124	0.18	0.160	0.12	398	366
3x185	0.0991	0.18	0.129	0.12	457	416

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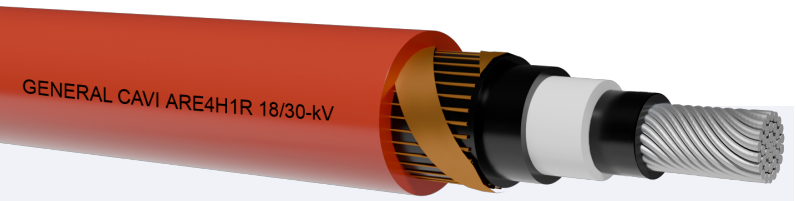
ARE4H1R 18/30 kV

Model Product: - 20151203



Aluminium rigid compact conductor, class 2.
Inner semi-conducting layer
XLPE Crosslinked polyethylene insulation(no dry cool).
Outer semi-conducting layer special high module hepr for 1.8 / 3 kV only on request
Red copper wire shield.
PVC sheath in RZ/ST2 quality

STANDARDS

CEI 20-13, HD 620

COMMON FEATURES

Suitable for the transport of energy between the substations and large users. Laying underground in accordance with Art. 4.3.11 of IEC 11-17.Storage is recommended where high risk of theft.

EMPLOYMENT

Minimum bending radius per D cable diameter (in mm): 12D

Maximum pulling stress: 50 N/mmq

PACKING

Drums to agree.

Cables with aluminum conductor for connections between substations and large users

Nominal voltage U0: 18 kV

Nominal voltage U: 30 kV

Test voltage: 63 kV

Maximun voltage Um: 36 kV

Maximun operating temperature: +90°C

Maximun short circuit temperature: +250°C

Minimum installation and laying temperature: 0°C

Min. operating temperature (without mechanical shocks): -15°C

CORE COLOURS

Single core: White

SHEATH COLOUR

Red

NOTE

The cable meets the requirements according to HD 620 for insulation, for all other characteristics compared to CEI 20-13
The cable can be supplied in the visible pole helical RE4H1RX

ARE4H1R 18/30kV

Conductor Number	Nominal Section	Approx cond. diameter	Approx insulation diameter	Approx external diameter	Approx cable weight	Minimum radius bending
(N°)	(mmq)	(mm)	(mm)	(mm)	(kg/km)	(mm)
Single core						
1x	50	8.2	24.45	33	880	396
1x	70	9.7	26.05	35	1020	420
1x	95	11.4	27.75	36	1155	432
1x	120	12.9	29.50	38	1320	456
1x	150	14.0	30.80	40	1450	480
1x	185	15.8	32.65	42	1620	508
1x	240	18.2	34.80	45	1860	540
1x	300	20.8	37.10	48	2100	576
1x	400	23.8	40.00	51	2645	612
1x	500	26.7	42.90	54	2978	648
1x	630	30.5	46.50	58	3549	696

Cond.xSec	Elettric Resistace 20°C	Capacities 50 Hz	Apparent resistance at 90°C and 50 Hz		Phase Reactance		Current carrying capacities			
			Trefoil formation	Flat	Trefoil formation	Flat	Trefoil formation in air	Flat in air	Trefoil formation in ground	Flat in ground
(N°x mmq)	(Ohm/km)	(microF/km)	(Ohm/km)	(Ohm/km)	(Ohm/km)	(Ohm/km)	(A)	(A)	(A)	(A)
Single core										
1x50	0.641	0.14	0.832	0.832	0.15	0.20	185	222	152	157
1x70	0.433	0.16	0.580	0.580	0.14	0.20	230	278	186	192
1x95	0.320	0.17	0.416	0.416	0.13	0.19	280	338	221	229
1x120	0.253	0.19	0.333	0.333	0.13	0.18	323	391	252	260
1x150	0.206	0.20	0.270	0.270	0.12	0.18	368	440	281	288
1x185	0.164	0.22	0.218	0.218	0.12	0.18	424	504	317	324
1x240	0.125	0.24	0.168	0.165	0.11	0.17	502	593	367	373
1x300	0.100	0.26	0.136	0.132	0.11	0.17	577	677	414	419
1x400	0.0778	0.29	0.109	0.105	0.11	0.16	673	769	470	466
1x500	0.0605	0.32	0.0890	0.0828	0.10	0.16	781	890	550	540
1x630	0.0469	0.36	0.0739	0.0662	0.099	0.16	909	1030	710	700

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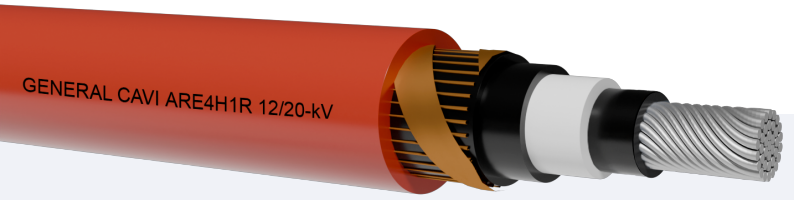
ARE4H1R 12/20 kV

Model Product: 745 - 20160412



Aluminium rigid compact conductor, class 2.
Inner semi-conducting layer
XLPE Crosslinked polyethylene insulation(no dry cool).
Outer semi-conducting layer special high module hepr for 1.8 / 3 kV only on request
Red copper wire shield.
PVC sheath in RZ/ST2 quality

STANDARDS

CEI 20-13, HD 620

COMMON FEATURES

Suitable for the transport of energy between the substations and large users. Laying underground in accordance with Art. 4.3.11 of IEC 11-17.Storage is recommended where high risk of theft.

EMPLOYMENT

Minimum bending radius per D cable diameter (in mm): 12D

Maximum pulling stress: 50 N/mmq

PACKING

Drums to agree.

Cables with aluminum conductor for connections between substations and large users

Nominal voltage U0: 12 kV

Nominal voltage U: 20 kV

Test voltage: 42 kV

Maximun voltage Um: 24 kV

Maximun operating temperature: +90°C

Maximun short circuit temperature: +250°C

Minimum installation and laying temperature: 0°C

Min. operating temperature (without mechanical shocks): -15°C

CORE COLOURS

Single core: White

SHEATH COLOUR

Red

NOTE

The cable meets the requirements according to HD 620 for insulation, for all other characteristics compared to CEI 20-13
The cable can be supplied in the visible pole helical RE4H1RX

ARE4H1R 12/20kV

Conductor Number	Nominal Section	Approx cond. diameter	Approx insulation diameter	Approx external diameter	Approx cable weight	Minimum radius bending
(N°)	(mmq)	(mm)	(mm)	(mm)	(kg/km)	(mm)
Single core						
1x	35	7	17,80	24.7	640	213
1x	50	8.2	18.9	26	710	312
1x	70	9.7	20.4	28	820	336
1x	95	11.4	22.2	30	940	360
1x	120	12.9	23.8	33	1080	396
1x	150	14.0	25	35	1180	420
1x	185	15.8	27	37	1360	444
1x	240	18.2	29	40	1600	480
1x	300	20.8	31.5	42	1890	504
1x	400	23.8	35	46	2270	552
1x	500	26.7	37	47	2685	564
1x	630	30.5	40	52	3280	624

Cond.xSec	Elettric Resistace 20°C	Capacities 50 Hz	Apparent resistance at 90°C and 50 Hz		Phase Reactance		Current carrying capacities			
			Trefoil formation	Flat	Trefoil formation	Flat	Trefoil formation in air	Flat in air	Trefoil formation in ground	Flat in ground
(N°x mmq)	(Ohm/km)	(microF/km)	(Ohm/km)	(Ohm/km)	(Ohm/km)	(Ohm/km)	(A)	(A)	(A)	(A)
Single core										
1x35	0.868	0.17	1.13	1.130	0.14	0.20	154	162	147	151
1x50	0.641	0.19	0.832	0.832	0.13	0.19	185	199	174	198
1x70	0.433	0.21	0.580	0.580	0.13	0.19	230	244	212	222
1x95	0.320	0.23	0.416	0.416	0.12	0.18	280	290	253	267
1x120	0.253	0.25	0.333	0.333	0.12	0.18	323	340	288	299
1x150	0.206	0.27	0.270	0.270	0.11	0.17	365	394	322	330
1x185	0.164	0.29	0.218	0.218	0.11	0.17	421	441	365	375
1x240	0.125	0.33	0.168	0.165	0.10	0.16	498	533	423	438
1x300	0.100	0.36	0.136	0.132	0.10	0.16	576	623	478	488
1x400	0.0778	0.40	0.109	0.105	0.099	0.16	673	722	545	563
1x500	0.0605	0.44	0.0890	0.0828	0.095	0.15	781	846	620	632
1x630	0.0469	0.50	0.0739	0.0662	0.093	0.15	909	946	704	710

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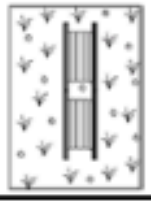
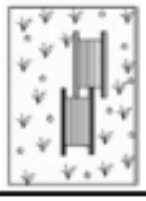
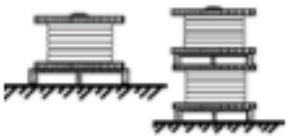
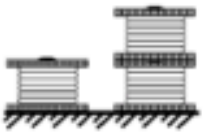
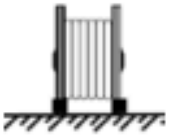
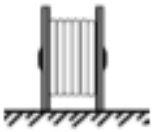
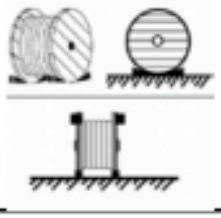
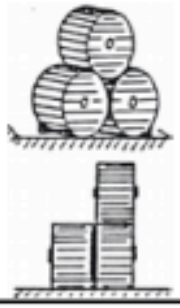
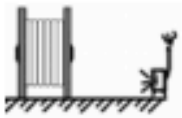
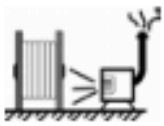
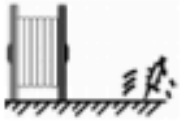
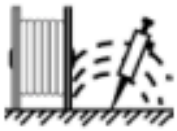
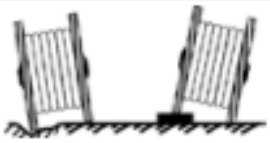
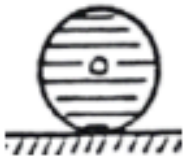
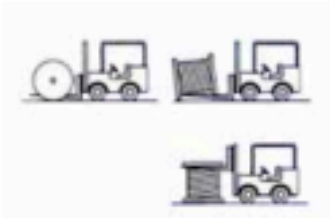
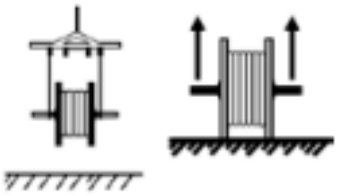
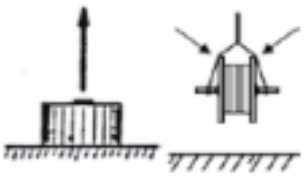
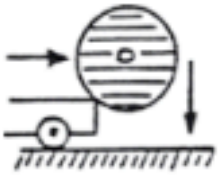
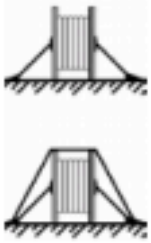
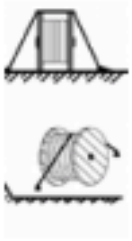
general cavi s.p.a.

Criteri per il deposito delle bobine per cavi elettrici

Criteria for storage of the wooden drums for electric cables

20190515

	Corretto/correct	Non corretto/ not correct
Accostamento tra bobine *Drums approach*		
Posizionamento *Placement*	 Cavi Bassa Tensione	 Cavi Bassa Tensione
Posizionamento *Placement*	 Cavi Media Tensione	 Cavi Media Tensione
Bloccaggio *Locking*		
Impilaggio tra bobine *Drums stacking*		
È vietato lo stoccaggio In vicinanza di fonti di calore *Storage is prohibited* *Near heat sources*		
È vietato lo stoccaggio in vicinanza di fonti sorgenti di vibrazioni *Storage is prohibited* *Near sources of vibration*		
È vietato lo stoccaggio su superfici irregolari *Storage is prohibited* *on uneven surfaces*		
È vietato lo stoccaggio Su aree soggette ad allagamenti durante le piogge *Storage is prohibited* *in flooding areas during rains*		

general cavi s.p.a.	**Criteri per la Movimentazione e trasporto delle bobine per cavi elettrici** ***Criteria for transort of the wooden drums for electric cables*** 20190515	
	Corretto/*correct*	Non corretto/ *not correct*
Movimentazione manuale *Manual handling*		
Movimentazione meccanica *Mechanical handling*		
Movimentazione meccanica sollevamento tramite gru *Mechanical handling crane lifting*		
Fissaggio delle estremità libere del cavo alla bobina *Fixing the free ends of the cable to the coil*		
Bloccaggio *Locking*		 Senza cunei
Scarico e carico *Unloading and loading*		
Rizzaggio/*Lashing*		

Disposal
The reel is made of recyclable materials and must not be thrown into the environment after use. At the end of the life, the reel must be sent to collection centers for disposal.

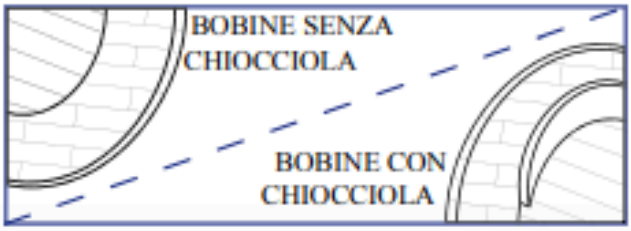
For further information see GUIDE CEI 20-92.

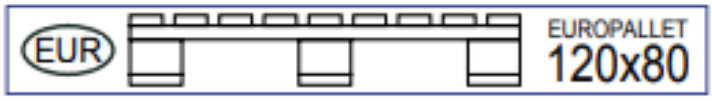
TABELLA CONTENUTO BOBINE IN METRI (INDICATIVO)

(CON E SENZA CHIOCCIOLA, VEDERE LEGENDA)

DIAMETRO ESTERNO CAVO [mm]	DIAMETRO FLANGIA BOBINA [mm] E PORTATA MASSIMA (kg)									
	600 (UNI06)	800 (UNI08)	1000 (UNI10)	1200 (UNI12)	1400 (UNI14)	1600 (UNI16)	1800 (UNI18)	2000 (UNI20)	2200 (UNI22)	2500 (UNI25)
	250	600	1300	1700	2500	4000	5000	6000	6500	7000
8.0	1000	2120	4080							
8.5	880	1900	3690							
9.0	780	1700	3210 / 2870	5410						
9.5	690	1520	2900	4780						
10.0	660	1370	2640	4370						
10.5	580	1230	2390	4000						
11.0	510	1100	2170 / 1920	3670 / 3140						
11.5	490	980	1960	3360	5420					
12.0	420	930	1750	3080	5000					
12.5	410	840	1710	2790	4610					
13.0	360	800	1540 / 1350	2580 / 2290	4200 / 3790					
13.5	340	710	1390	2370	3910	5840				
14.0	330	690	1340	2160	3770	5370				
14.5	290	610	1210	2080	3470	4960				
15.0	280	590	1170 / 1010	1900 / 1670	3200 / 2830	4800				
16.0	230	500	1020	1680	2840	4070	5950			
17.0	220	470	880 / 760	1480 / 1290	2540 / 2230	3630 / 3200	5000			
18.0	170	400	760	1290	2230	3240	4450	5590		
19.0	160	370	710 / 610	1130 / 1070	2000 / 1760	2880 / 2520	4210 / 3700	5000		
20.0	160	310	630	1090	1770	2570	3760	4750	5680	
21.0	130	300	580 / 500	940 / 820	1570 / 1490	2450 / 2130	3340 / 2900	4250 / 3680	5100	
22.0	120	250	510	910	1520	2180	2960	3810	4590	
23.0	120	240	490 / 400	800 / 680	1350 / 1160	1940 / 1800	2820 / 2440	3390 / 2910	4110 / 3520	
24.0		230	410	770	1200	1860	2500	3250	3950	5570
25.0		190	400 / 360	670 / 630	1150 / 980	1640 / 1530	2400 / 2060	2900 / 2470	3530 / 3010	5060
26.0		180	380	640	1010	1580	2110	2790	3390	4590
27.0		180	320 / 300	560 / 500	970 / 820	1390 / 1300	2030 / 1730	2480 / 2090	3040 / 2570	4420 / 3780
28.0		170	310	540	940	1340	1790	2390	2930	4010
29.0			300 / 240	520 / 430	820 / 750	1180 / 1100	1720 / 1610	2120 / 1780	2610 / 2190	3880 / 3300
30.0			290	440	800	1140	1670	2040	2527	3510
31.0			240 / 220	430 / 400	770 / 650	1100 / 930	1450 / 1360	1800 / 1660	2230 / 1860	3390 / 2880
32.0			230	410	670	960	1400	1740	2170	3070
33.0			220 / 210	400 / 330	650 / 540	930 / 840	1360 / 1130	1690 / 1400	2100 / 1750	2980 / 2510
34.0			220	340	630	900	1170	1640	1850	2680
35.0			210	330 / 310	540 / 510	880 / 730	1140 / 1060	1430 / 1320	1800 / 1480	2600 / 2190
36.0			170	320	530	760	1100	1390	1570	2330
37.0			160	270 / 250	510 / 420	730 / 690	1070 / 950	1350 / 1100	1530 / 1400	2270 / 1890
38.0			160	260	430	710	910	1170	1490	2210
39.0			160	250 / 240	420 / 400	610 / 570	890 / 840	1140 / 1050	1450 / 1180	1970 / 1800
40.0			150	250	410	590	870	1110	1260	1920
41.0			150	240 / 230	400 / 380	580 / 540	850 / 800	1080 / 900	1220 / 1120	1880 / 1560
42.0			110	230	390	560	830	920	1190	1660
43.0				230	380 / 300	550 / 440	690 / 700	900 / 840	1170 / 1000	1630 / 1480
44.0				190	320	540	680	880	1140	1590
45.0				180	310 / 280	450 / 420	660 / 620	860 / 800	970 / 900	1550 / 1277
46.0				170	300	440	650	840	950	1360
47.0				170	300 / 280	430 / 400	630 / 590	820 / 650	930 / 860	1330 / 1220
48.0				170	290	410	620	690	910	1310
49.0				170	290 / 260	410 / 390	600 / 470	680 / 630	890 / 750	1280 / 1100
50.0				160	280	410	500	660	880	1260
51.0				160	230	400 / 350	480 / 450	650 / 600	860 / 680	1090 / 1000
52.0				120	230	320	480	640	720	1070

DIAMETRO ESTERNO CAVO [mm]	DIAMETRO FLANGIA BOBINA [mm] E PORTATA MASSIMA (kg)									
	600 (UNI06)	800 (UNI08)	1000 (UNI10)	1200 (UNI12)	1400 (UNI14)	1600 (UNI16)	1800 (UNI18)	2000 (UNI20)	2200 (UNI22)	2500 (UNI25)
	250	600	1300	1700	2500	4000	5000	6000	6500	7000
53.0				120	220	320 / 300	470 / 440	630 / 480	710 / 650	1050 / 960
54.0				120	200	310	460	610	700	1030
55.0					200	300 / 290	450 / 420	600 / 460	680 / 630	1010 / 920
56.0					200	300	440	490	670	990
57.0					200	290 / 280	430 / 400	480 / 450	660 / 500	980 / 800
58.0					200	290	430	480	650	840
59.0					200	280 / 270	420 / 350	470 / 430	640 / 490	830 / 750
60.0					200	280	330	460	520	810
61.0					150	280	320 / 300	450 / 420	510 / 470	800 / 730
62.0					150	220	320	440	500	780
63.0					150	210	310 / 290	440 / 400	490 / 460	770 / 650
64.0					150	210	310	430	490	760
65.0					140	200	300 / 280	420 / 370	480 / 440	750 / 580
66.0					140	200	300	420	470	630
67.0					140	200	290 / 280	330 / 320	470 / 430	620 / 570
68.0					140	200	290	320	460	610
69.0						190	280 / 270	320 / 300	450 / 400	600 / 550
70.0						190	280	310	440	590
71.0						180	200 / 260	300 / 280	350 / 350	580 / 530
72.0						180	200	300	340	570
73.0						130	200	300 / 280	340 / 310	570 / 520
74.0						130	200	290	330	470
75.0						130	190	290 / 270	330 / 300	460 / 470
76.0						130	190	290	320	450
77.0						130	190	280 / 260	320 / 300	450 / 420
78.0						130	190	280	320	440
79.0						120	180	200 / 190	310 / 290	440 / 400
80.0						120	180	200	310	430
81.0						120	180	200 / 190	300 / 280	420 / 390
82.0						120	180	200	300	420
83.0						110	170	190	300 / 270	410 / 380
84.0						110	170	190	290	410
85.0						110	170	190	290 / 270	400 / 370
86.0							170	190	210	400
87.0							170	190	210 / 190	400 / 360
88.0							160	180	210	390
89.0							160	180	210 / 190	310 / 280
90.0							160	180	200	300
91.0							160	180	200 / 190	300 / 280
92.0							160	170	200	300
93.0										270
95.0										260
97.0										260
99.0										250
101.0										250
103.0										240
105.0										240





PACKAGING

100m Harmonized cables.

n x mm²	H05V-U [bxh / m] (TERMOFOIL)	H07V-U/R [bxh / m] (CARDBOX)	H07V-U/R [bxh / m] (TERMOFOIL)	H05V-K H07V-K [bxh / m] (CARDBOX)	H07V-K [bxh / m] (TERMOFOIL)	H05Z-K H07Z-K [bxh / m] (TERMOFOIL)	H05Z-K H07Z-K [bxh / m] (CARDBOX)	H1Z2Z2-K [bxh / m] (TERMOFOIL)
1x0.50	24x10 / 24000m			24x10 / 24000m			24x10 / 24000m	
1x0.75	24x10 / 24000m			24x10 / 24000m			24x10 / 24000m	
1 x 1	24x10 / 24000m			24x10 / 24000m			24x10 / 24000m	
1 x 1.5		24x10 / 24000m		24x10 / 24000m			24x10 / 24000m	
1 x 2.5		24x8 / 19200m		24x8 / 19200m			24x8 / 19200m	
1 x 4		15x8/ 12000m		15x8 / 12000m			15x8 / 12000m	11x8 / 8800m
1 x 6			15x8 / 12000m	12x5 / 6000m			12x5 / 6000m	8x8 / 6400m
1 x 10			8x6 / 4800m		8x6 / 4800m	8x6 / 4800m		
1 x 16			8x6 / 4800m		8x6 / 4800m	6x5 / 3000m		
1 x 25			6x5 / 3000m		6x5 / 3000m	6x5 / 3000m		
1 x 35			6x5 / 3000m		6x5 / 3000m	6x5 / 3000m		

100m Italian national cables.

n x mm²	FS17 N07V-K [bxh / m] (CARDBOX)	FS17 N07V-K [bxh / m] (TERMOFOIL)	FG17 N07G9-K [bxh / m] (TERMOFOIL)
1x0.50			
1x0.75			
1 x 1			
1 x 1.5	24x10 / 24000m	15x17 / 25500m	15x17 / 25500m
1 x 2.5	24x8 / 19200m	15x13 / 19500m	15x13 / 19500m
1 x 4	15x8 / 12000m	15x8 / 12000m	15x8 / 12000m
1 x 6	12x5 / 6000m	15x8 / 12000m	15x8 / 12000m
1 x 10		8x6 / 4800m	8x6 / 4800m
1 x 16		8x6 / 4800m	8x6 / 4800m
1 x 25		6x5 / 3000m	6x5 / 3000m
1 x 35		6x5 / 3000m	6x5 / 3000m

Note 1: **b**= N° of coils on the base.
h= N° of coils in vertical.
m= total quantity.
n= N° of cores.
mm²= nominal section.

Note 2: maximum high 95cm.

5x100m pack

n x mm²	H07V-U [bxh / m] (TERMOFOIL)
1 x 1.5	15x15 / 22500m
1 x 2.5	15x15 / 22500m

200m

n x mm²	H05V-K FS17 N07V-K [bxh / m] (TERMOFOIL)
1x0.50	15x12 / 36000m
1x0.75	15x12 / 36000m
1 x 1	15x8 / 24000m

500m

n x mm²	H07V-U [bxh / m] (TERMOFOIL)
1 x 1.5	11x6 / 33000m
1 x 2.5	8x6 / 24000m

100m

n x mm²	FROR [bxh / m]	FG7OR [bxh / m]	FG16OR16 FG16OM16 [bxh / m]	H03VV-F H05VV-F [bxh / m]	H05RR-F H05RN-F H07RN-F H07BQ-F [bxh / m]	U-1000 R2V [bxh / m]	YSLY (bxh / m)	NHXMH [bxh / m]
2 x 0.50				11x8 / 8800m				
2 x 0.75				11x7 / 7700m	11x7 / 7700m			
2 x 1	6x7 / 4200m			6x7 / 4200m	6x7 / 4200m			
2 x 1.5	6x7 / 4200m	6x6 / 3600m	6x5 / 3000m	6x7 / 4200m	6x6 / 3600m	6 x7 / 4200m		
2 x 2.5	6x6 / 3600m	6x6 / 3600m	6x5 / 3000m	6x6 / 3600m	6x6 / 3600m	6 x6 / 3600m		
2 x 4	6x5 / 3000m	6x5 / 3000m	6x4 / 2400m	6x5 / 3000m	6x5 / 3000m	6x5 / 3000m		
2 x 6	4x5 / 2000m	6x4 / 2400m	6x3 / 1800m	6x4 / 2400m	6x4 / 2400m	6x4 / 2400m		
3 x 0.50				8x8 / 6400m				
3 x 0.75				8x7 / 5600m	8x6 / 4800m			
3 x 1	6x7 / 4200m			6x7 / 4200m	6x7 / 4200m		8x6 / 4800m	
3 x 1.5	6x7 / 4200m	6x6 / 3600m	6x5 / 3000m	6x7 / 4200m	6x7 / 4200m	6x6 / 3600m	8x6 / 4800m	6x6 / 3600m
3 x 2.5	6x6 / 3600m	6x5 / 3000m	6x4 / 2400m	6x6 / 3600m	6x5 / 3000m	6x5 / 3000m	7x6 / 4200m	6x5 / 3000m
3 x 4	6x5 / 3000m	6x4 / 2400m	6x3 / 1800m	6x5 / 3000m	6x5 / 3000m	6x5 / 3000m		
3 x6	4x4 / 1600m	4x4 / 1600m	4x3 / 1200m	4x4 / 1600m	4x4 / 1600m	4x4 / 1600m		
4 x 0.50				7x8 / 5600m				
4 x 0.75				7x8 / 5600m	7x6 / 4200m			
4 x 1	6x6 / 3600m			6x6 / 3600m	6x6 / 3600m			
4 x 1.5	6x6 / 3600m	6x5 / 3000m	6x4 / 2400m	6x6 / 3600m	6x6 / 3600m	6x5 / 3000m	7x6 / 4200m	
4 x 2.5	6x5 / 3000m	6x4 / 2400m	6x4 / 2400m	6x5 / 3000m	6x5 / 3000m	6x5 / 3000m	6/6 3600m	
4 x4	4x4 / 1600m	4x4 / 1600m	4x4 / 1600m	4x4 / 1600m	4x4 / 1600m	4x4 / 1600m		
4 x 6	4x4 / 1600m	3x4 / 1200m	3x4 / 1200m	3x4 / 1200m	3x4 / 1200m	3x4 / 1200m		
5 x 0.50				6x7 / 4200m				
5 x0.75				6x7 7 4200m				
5 x 1	6x6 / 3600m			6x6 / 3600m	6x6 / 3600m			
5 x 1.5	6x5 / 3000m	6x4 / 2400m	4x4 / 1600m	6x5 / 3000m	6x6 / 3600m	6x5 / 3000m	7x6 / 4200m	6x5 / 3000m
5 x 2.5	6x4 / 2400m	4x4 / 1600m	4x4 / 1600m	5x4 / 2000m	4x4 / 1600m	4x6 / 2400m	6x6 / 3600m	4x6 / 2400m
5 x 4	3x4 / 1200m	3x4 / 1200m	3x4 / 1200m	3x4 / 1200m	3x4 / 1200m	3x4 / 1200m		
5 x 6	3x4 / 1200m	2x4 / 800m	2x4 / 800m	2x4 / 800m	2x4 / 800m	2x4 / 800m		
7 x 1	6x5 / 3000m							
7 x 1.5	6x5 / 3000m							
10 x 1	4x4 / 1600							

50m

n x mm²	H03VV-F H05VV-F [bxh / m]	H07BQ-F [bxh / m]	H05RR-F H05RN-F H07RN-F [bxh / m]	U-1000 R2V [bxh / m]	H07V-K [bxh / m]
1 x 25					8x6 / 2400m
1 x 35					7x6 / 2100m
1 x 50					7x5 / 1750m
2 x 0.50	15x11 / 8250m				
2 x 0.75	12x9 / 5400m		15x11 / 8250m		
2 x 1	11x9 / 4950m		11x9 / 4950m		
2 x 1.5	11x8 / 4400m		11x8 / 4400m	8x7 / 2800m	
2 x 2.5	7x8 / 2800m		11x8 / 4400m	7x7 / 2450m	
3 x 0.50	15x7 / 5250m				
3 x 0.75	11x8 / 4400m	11x8 / 4400m	11x8 / 4400m		
3 x 1	11x8 / 4400m		12x7 / 4200m		
3 x 1.5	11x8 / 4400m	8x7 / 2800m	11x8 / 4400m	8x7 / 2800m	
3 x 2.5	8x7 / 2800m	7x6 / 2100m	6x8 / 2400m	7x7 / 2450m	
4 x 0.50	12x7 / 4200m				
4 x 0.75	11x8 4400m		12x7 / 4200m		
4 x 1	11x8 / 4400m		12x7 / 4200m		
4 x 1.5	8x7 / 2800m		11x7 / 3850m	7x7 / 2450m	
4 x 2.5	7x7 / 2450m		7x7 / 2450m	7x7 / 2450m	
5 x 0.50	11x7 / 3850m				
5 x0.75	11x7 / 3850m				
5 x 1	11x6 / 3300m		11x7 / 3850m		
5 x 1.5	7x7 / 2450m	6x6 / 1800m	8x6 / 2400m	7x7 / 2450m	
5 x 2.5	6x5 / 1500m		6x7 / 2100m	7x7 / 2450m	
5 x 4	6x5 / 1500m		6x5 / 1500m		
5 x 6			4x5 / 1000m		
5 x 10			4x4 / 800m		

25m

n x mm²	FG16OR16 FG16OM16 [bxh / m]	U1000 H05VV-F [bxh / m]	H07RN-F [bxh / m]	(N)YM(St) [bxh / m]
2 x 1,5	11x8 / 2200m			
2 x 2,5	11x8 / 2200m			
3 x 1,5	11x8 / 2200m	12x8 / 2400m	8x7 / 1400m	8x7 / 2800m
3 x 2,5	8X8 / 1600m	11x8 / 2200m	8x7 / 1400m	
5 x 1,5			8x7 / 1400m	
5 x 2,5			8x7 / 1400m	

100m on pallet 110x110

n x mm²	FROR [bxh / m]	Unipolari senza guaina harmonizzati e nazionali In Scatole [bxh / m]	In Termoretraibile [bxh / m]
1 x 1		25x15 / 37500m	20x25 / 48000m
1 x 1.5		25x14 / 35000m	20x24 /48000m
1 x 2.5		25x11 / 27500m	20x18 / 36000m
1 x 4		16x11 / 27500m	20x11 / 22000m
1 x 6		25x15 / 17600m	20x9 / 18000m
2 x 2.5	9x8 / 7200m		
2 x 4	7x8 / 5600m		
2 x 6	6x7 / 4200m		
3 x 1.5	9x9 / 8100m		
3 x 2.5	8x8 / 6400m		
3 x 4	6x7 / 4200m		
4 x 1.5	9x9 / 8100m		
4 x 2.5	6x7 / 4200m		

1000m

n x mm²	H1Z2Z2-K [bxh / m]		NHXMH N2XH U1000 FR-N1X1G1 XGB [bxh / m]		H05RR-F H05RN-F [bxh / m]		YSLY HSLH [bxh / m]	
1x4	2x2 / 4000m	Diam.600 8009083						
1x6	2x2 / 4000m	Diam.600 8009083						
3 x 1.5			2x2 / 4000m	Diam.600ALTE 8009159	2x2 / 4000m	Diam.600 8009083	2x2 / 4000m	Diam.600 8009083
3 x 2.5			1x2 / 2000m	Diam.750 8009045	2x2 / 4000m	Diam.600 8009083	2x2 / 4000m	Diam.600 8009083
4 x 1.5			2x2 / 4000m	Diam.600ALTE 8009159	2x2 / 4000m	Diam.600 8009083	2x2 / 4000m	Diam.600 8009083
4 x 2.5			1x2 / 2000m	Diam.750 8009045			2x2 / 4000m	Diam.600ALTE 8009159
5 x 1.5			1x2 / 2000m	Diam.750 8009045			2x2 / 4000m	Diam.600ALTE 8009159
5 x 2.5			1x2 / 2000m	Diam.750 8009045			1x2 / 2000m	Diam.750 8009045

n x mm²	H1Z2Z2-K [bxh / m]		FR-N1X1G1 XGB N2XH [bxh / m]		H05RR-F H05RN-F [bxh / m]		NHXMH U1000 R2V [bxh / m]		YSLY HSLH [bxh / m]	
1x4	6x2 / 6000m	Diam.400 8009043								
1x6	6x2 / 6000m	Diam.400 8009043								
3 x 1.5			6x2 / 6000m	Diam.400 Alte 8009046	6x2 / 6000m	Diam.400 Alte 8009046	6x2 / 6000m	Diam.400 Alte 8009046	6x2 / 6000m	Diam.400 8009043
3 x 2.5			2x2 / 2000m	Diam.600 8009083	2x2 / 2000m	Diam.600 8009083	6x2 / 6000m	Diam.400 Alte 8009046	6x2 / 6000m	Diam.400 8009043
4 x 0.75					6x2 / 6000m	Diam.400 8009043				
4 x 1.5							6x2 / 6000m	Diam.400 Alte 8009046	6x2 / 6000m	Diam.400 8009043
4 x 2.5							2x2 / 2000m	Diam.600 8009083	2x2 / 2000m	Diam.600 8009083
5 x 1.5			2x2 / 2000m	Diam.600 8009083			2x2 / 2000m	Diam.600 8009083	2x2 / 2000m	Diam.600 8009083
5 x 2.5			2x2 / 2000m	Diam.600 Alte 8009159			2x2 / 2000m	Diam.600 Alte 8009159	2x2 / 2000m	Diam.600 8009083

Diam.400mm 8009046, Diam.600mm 8009159, pallet high 120cm.

Singlecore cable calss 5

	DIN400		Ø 400 PLYWOOD	Ø 600 WOOD ANIE	Ø 800 WOOD ANIE	Ø 1000 WOOD ANIE	BARREL 800		BARREL 400	
n x mm²	[m]	[m totali]	[m]	[m]	[m]	[m]	[m]	[m tot]	[m]	[m tot]
1 x 0,50	3500	42000	6000	6000		40000	7000	42000	3500	42000
1 x 0,75	3000	36000	5000	5000		40000	6000	36000	3000	36000
1 x 1	2000	24000	4000	4500		30000	5000	30000	2500	30000
1 x 1,5	1500	18000	3000	4000	15000	20000	3500	21000	1500	18000
1 x 2,5	1000	12000	2000	3000	10000	20000	2500	15000	1000	12000
1 x 4	600	7200	1500	2500	6000		1500	9000	900	10800
1 x 6	500	6000	1000	2000	4000		1500	9000	750	9000

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