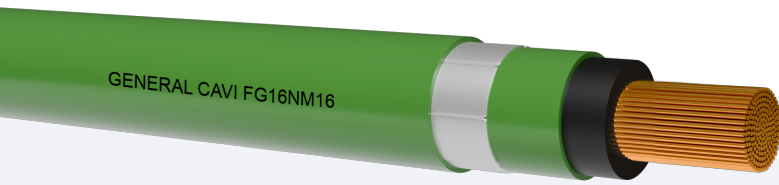


FG16NM16 0,6/1kV

CPR Cca-s1b,d1,a1

Model Product: A66 - 20201123

general
CAVI s.p.a.

Class 5 flexible copper conductor.
Elastomeric mixture insulation (G16 quality).
M16+not fibrous and not hygroscopic filler
Alluminium no-magnetic 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)

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 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 ALUMINUM TAPES ARMOR.

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

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

Test voltage: 4000 V

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

Maximum operating temperature: 90°C

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

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

Minimum installation and laying temperature: 0°C

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

Minimum installation and laying temperature: 0°C

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 length

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

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Cores number (N°)	Cross section (mm²)	Approx conductor diameter (mm)	Insulation medium thickness (mm)	Maximum external diameter (mm)	Approx cable weight (kg/km)	Electric resistance at 20°C (Ohm/km)	Current carrying capacities	
							30°C in air pipe	20°C In ground
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 according 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.).