

# RG18M16 0,6/1 kV

CPR B2ca-s1a,d1,a1

Model Product: A53 - 20191014



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)

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  $U_0/U$  0,6/1 kV

Nominal voltage  $U_0$ : 600V(AC) 1800V(DC)

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

Test voltage: 4000 V

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

Maximum operating temperature: 90°C

Maximum short circuit temperature for sections up to 240mm<sup>2</sup>: +250°C

Maximum short circuit temperature for sections over 240mm<sup>2</sup>: +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 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. 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/mm<sup>2</sup>

Static stress = 15 N/mm<sup>2</sup>

## 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 length

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Cores number	Cross section	Approx conductor diameter	Insulation medium thickness	Max external 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 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.).