FS18OR18 300/500V

(CPR Cca-s3,d1,a3)

Model Product: P50-P51 - 20220915

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

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)

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

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.

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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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

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								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