



FS18OR18

Cca - s3, d1, a3

According to European Construction Products Regulation CPR (EU) n.305/11

Reaction to fire REGULATION 305/2011/EU and standard EN 50575

Cables suitable for power supply in buildings and other civil engineering works with the aim of limiting the production and spread of fire and smoke according to the class envisaged.

Compliant with the Construction Products Regulation (CPR)

- **Standard: EN 50575:2014+A1:2016**
- **Class: Cca-s3, d1, a3**
- **Classification (IEC UNEL 35016): EN 13501-6**
- **Heat and smoke emission during flame development: EN 50399**
- **Vertical flame spread: EN 60332-1-2**
- **Corrosive and halogenated gases: EN 60754-2**

Reference standards

CEI 20-40
2014/35/UE
2011/65/CE

Cable description

FLEXIBLE cables for power, signalling and control, insulated in PVC of S18 quality, sheathed in PVC of R18 quality, with special reaction to fire characteristics and conforming to the Construction Regulation (CPR)

Conductor

Annealed red copper with flexible round cord CLASS 5

Core isolation

Polyvinyl chloride (PVC) quality S18

Colours

Light blue, white, yellow/green, grey, brown, black, red, orange, pink, purple, dark blue

Outer sheath

Polyvinyl chloride (PVC) sheathing, R18 quality

Colore guaina

Brown

Labeling

Stamping on insulation every 1 m

Technical specifications

Resistant to mechanical stress, fire and flame retardant, very low emission of halogens, fumes, toxic and corrosive gases. Good behaviour at low temperatures, good flexibility, smoothness and excellent peelability. Good resistance to abrasion.

Rated voltage: Uo/U 300/500 V

Maximum operating temperature: 70° C

Minimum operating temperature: -15° C

Maximum short-circuit temperature: 160° C

Laying conditions

Minimum installation temperature: 0° C

Recommended minimum bending radius: 4 times the cable diameter

Maximum recommended tensile stress: 50 N/mm² of section

Packaging

- Hanks 100 metres
- Wooden reel
- Cardboard/plastic reels

Applications

Cables for the transport of energy and transmission of signals, suitable for fixed installation in indoor areas with dry or wet environments and in areas with fire hazards. Temporary laying in outdoor areas is also permissible. For laying in free air in pipes or ducts and in metal structures.

Conductor number N°	Nominal Section	Indicative conductor diameter	Average thickness Insulation	Approximate outside diameter	Indicative weight Kg/km	Electrical resistance at 20° C. Maximum Ω /Km
2 X	0,50	0,9	0,4	4,5	40	39
	0,75	1,1	0,4	5,2	48	26
	1	1,3	0,4	5,6	56	19,5
	1,5	1,5	0,4	6,2	71	13,3
	2,5	1,9	0,5	7,6	106	7,98
3 G	0,50	0,9	0,4	4,7	47	39
	0,75	1,1	0,4	5,5	57	26
	1	1,3	0,4	6,0	67	19,5
	1,5	1,5	0,4	6,6	86	13,3
	2,5	1,9	0,5	8,3	131	7,98
4 G	0,50	0,9	0,4	5,2	55	39
	0,75	1,1	0,4	6,0	65	26
	1	1,3	0,4	6,7	80	19,5
	1,5	1,5	0,4	7,1	101	13,3
	2,5	1,9	0,5	9,0	159	7,98
5 G	0,50	0,9	0,4	5,7	71	39
	0,75	1,1	0,4	6,8	80	26
	1	1,3	0,4	7,3	95	19,5
	1,5	1,5	0,4	8,0	123	13,3
	2,5	1,9	0,5	10,1	196	7,98
7G	0,50	0,9	0,4	6,3	83	39
	0,75	1,1	0,4	7,3	100	26
	1	1,3	0,4	8,1	123	19,5
	1,5	1,5	0,4	8,7	159	13,3
	2,5	1,9	0,5	11,2	257	7,98
10G	0,50	0,9	0,4	8,2	112	39,4
12G	0,50	0,9	0,4	8,5	126	39,4
14G	0,50	0,9	0,4	8,9	143	39,4
16G	0,50	0,9	0,4	9,4	164	39,4