



FG16(O)-R16 0,6 / 1 kV

Cca - s3, d1, a3

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

Reaction to fire REGULATION 305/2011/EU

- **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 - 13
CEI UNEL 35375
CEI 20 – 22 II
CEI EN 60332 -1-2
CEI EN 50267 -2-1
2014/35/UE
2011/65/CE
IEC 60502

Cable description

Flexible energy cables insulated with rubber of G16 quality and PVC sheathing of R16 quality, flame retardant and low emission of corrosive gases.

Conductor

Annealed red copper with flexible round cord CLASS 5

Core isolation

High-modulus ethylpropylene rubber G16 quality

Core colour*

2x Brown / Light Blue
3x Yellow-Green / Brown / Light Blue
4x Yellow-Green / Black / Grey / Brown
5x Yellow-Green / Black / Light Blue / Brown / Grey
Subsequent formations with numbered cores
*Also available without G/V

Filling

Compound of non-hygroscopic material

Sheath

Polyvinyl chloride (PVC) coating in R16 quality

Sheath colour

Grey RAL 7035

Labeling

Impression/ink stamping on sheathing depending on cross section every 1 m

Technical specifications

Good resistance to industrial oils and greases, good behaviour at high temperatures, very low emission of fumes, toxic and corrosive gases.

Nominal voltage: Uo/U: 0.6/1 kV a.c. - 1,500 V d.c.

Industrial test voltage: 4,000 V

Maximum operating temperature: 90° C

Minimum operating temperature: -15° C

Maximum short-circuit temperature: 250° C

Installation conditions

Minimum installation temperature: 0°C

Recommended minimum bending radius: 4 times the outer diameter

Maximum recommended tensile stress: 50 N/mm² of copper section

Packaging

- Hanks 100 metres
- Wooden reel

Applications

Cables used for supplying and transporting energy in residential buildings, construction sites and industry. Suitable for fixed installation both indoors and outdoors, can be buried either directly or indirectly.

BIPOLAR						
Conductor number N	Nominal section mmq	Approximate conductor diameter mm	Average insulation thickness mm	Approximate production diameter mm	Indicative weight Kg/km	Electrical resistance at 20° C. Maximum Ω/Km
2 x	1,5	1,5	0,7	9,6	127	13,3
	2,5	2	0,7	10,6	168	7,98
	4	2,5	0,7	11,7	215	4,95
	6	3	0,7	12,7	270	3,3
	10	4	0,7	14,8	390	1,91
	16	5	0,7	16,6	520	1,21
	25	6,2	0,9	20,8	850	0,78
	35	7,4	0,9	23,0	1090	0,554

TRIPOLAR						
Conductor number N	Nominal section mmq	Approximate conductor diameter mm	Average insulation thickness mm	Approximate production diameter mm	Indicative weight Kg/km	Electrical resistance at 20° C. Maximum Ω/Km
3 G	1,5	1,5	0,7	10,1	146	13,3
	2,5	2	0,7	11,2	190	7,98
	4	2,5	0,7	12,3	250	4,95
	6	3	0,7	13,4	320	3,3
	10	4	0,7	15,7	470	1,91
	16	5	0,7	17,6	695	1,21
	25	6,2	0,9	22,1	1000	0,78
	35	7,4	0,9	24,5	1350	0,554
	50	8,9	1	28,4	1870	0,386
	70	10,5	1,1	31,9	2620	0,272
	95	12,2	1,1	35,4	3319	0,206
	120	13,8	1,2	39,0	4130	0,161
	150	15,4	1,4	43,6	5200	0,129
	185	16,9	1,6	51,7	6650	0,106
240	19,5	1,7	59,0	8700	0,0801	
300	23	1,8	65,4	10900	0,0641	

QUADRIPOlar						
Conductor number N	Nominal section mmq	Approximate conductor diameter mm	Average insulation thickness mm	Approximate production diameter mm	Indicative weight Kg/km	Electrical resistance at 20° C. Maximum Ω/Km
4 G	1,5	1,5	0,7	10,8	168	13,3
	2,5	2	0,7	12,0	220	7,98
	4	2,5	0,7	13,3	295	4,95
	6	3	0,7	14,5	385	3,3
	10	4	0,7	17,0	575	1,91
	16	5	0,7	19,2	795	1,21
	25	6,2	0,9	24,1	1205	0,78

PENTAPOLAR						
Conductor number N	Nominal section mmq	Approximate conductor diameter mm	Average insulation thickness mm	Approximate production diameter mm	Indicative weight Kg/km	Electrical resistance at 20° C. Maximum Ω/Km
5 G	1,5	1,5	0,7	11,7	195	13,3
	2,5	2	0,7	13,0	260	7,98
	4	2,5	0,7	14,5	345	4,95
	6	3	0,7	15,8	455	3,3
	10	4	0,7	18,6	690	1,91
	16	5	0,7	21,2	970	1,21
	25	6,2	0,9	26,5	1470	0,78
	35	7,4	0,9	29,5	1990	0,554
	50	8,9	1	34,8	3100	0,386

MULTIPOLAR (numbered cores)							
Nominal section mmq		Approximate conductor diameter mm	Average insulation thickness mm	Approximate production diameter mm	Indicative weight Kg/km	Electrical resistance at 20° C. Maximum Ω/Km	
7	G	1,5	1,5	0,7	13,4	260	13,3
7	G	2,5	2	0,7	14,9	360	7,98
10	G	1,5	1,5	0,7	16,3	390	13,4
10	G	2,5	2	0,7	18,3	525	8,06
12	G	1,5	1,5	0,7	16,8	425	13,4
12	G	2,5	2	0,7	18,9	575	8,06
16	G	1,5	1,5	0,7	18,3	500	13,4
16	G	2,5	2	0,7	20,8	700	8,06
19	G	1,5	1,5	0,7	19,3	565	13,4
19	G	2,5	2	0,7	21,8	780	8,06
24	G	1,5	1,5	0,7	22,2	730	13,5
24	G	2,5	2	0,7	25,2	995	8,1