FG16(O)M16 - 0,6 / 1kV

Cca - s1b, d1, a1

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

Reaction to fire REGULATION 305/2011/EU

- **Standard: EN 50575:2014+A1:2016 and EN 13501-6:2014**
- **Class: Cca-s1b, d1, a1**
- **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**
- **Smoke density: EN 61034-2**

Reference standards

Construction Products Regulation (CPR)
CEI 20 - 13
CEI 20 - 67
CEI UNEL 35324
CEI EN 60332 -1-2
2014/35/EU
2011/65/EU

Cable description

Flexible energy cables insulated with HEPR rubber of G16 quality under special thermoplastic sheathing of M16 quality fire retardant and low emission of corrosive gases, halogen free.

Conductor

Annealed red copper with flexible round cord CLASS 5

Core isolation

High-modulus ethylpropylene rubber (HEPR) 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

Thermoplastic material compound LS0H (Low Smoke 0 Halogen)

Sheath

LS0H (Low Smoke 0 Halogen) thermoplastic coating in M16 quality

Sheath colour

Green

Labeling

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

Technical specifications

Good behaviour at high temperatures, very low emission of fumes, toxic and corrosive gases, flame retardant, fire retardant and zero halogen.
Rated voltage: Uo/U: 0.6/1 kV a.c. - 1.5 kV d.c.
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 cable 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, places with a high number of people (schools, subways, discos, theatres, shopping centres, etc.), construction sites and industry.
Suitable for installation on walls, metal structures, ducts, pipes and similar, for use indoors, even in wet rooms, and outdoors. It can also be directly and indirectly buried.

BIPOLAR						
Conductor number N	**Nominal section mmq**	**Approximate conductor diameter mm**	**Average insulation thickness mm**	**Maximum external diameter mm**	**Indicative weight Kg/km**	**Electrical resistance at 20° C. Maximum Ω/Km**
2 x	1,5	1,5	0,7	12	145	13,30
	2,5	1,9	0,7	13	185	7,98
	4	2,5	0,7	14,20	235	4,95
	6	3	0,7	15,40	290	3,30
	10	4	0,7	17,30	420	1,91
	16	5	0,7	19,40	600	1,21
	25	6,20	0,9	23	870	0,78
	35	7,40	0,9	25,70	1135	0,554
	50	8,90	1	29,30	1525	0,386

TRIPOLAR						
Conductor number N	**Nominal section mmq**	**Approximate conductor diameter mm**	**Average insulation thickness mm**	**Maximum external diameter mm**	**Indicative weight Kg/km**	**Electrical resistance at 20° C. Maximum Ω/Km**
3 G	1,5	1,5	0,7	12	146	13,30
	2,5	2	0,7	13,50	191	7,98
	4	2,5	0,7	14,90	250	4,95
	6	3	0,7	16,20	320	3,30
	10	4	0,7	18,20	480	1,91
	16	5	0,7	20,60	705	1,21
	25	6,20	0,9	24,50	1060	0,78
	35	7,40	0,9	27,30	1400	0,554
	50	8,90	1	31,20	1910	0,386
	70	10,50	1,1	35,60	2590	0,272
	95	12,20	1,1	40	3320	0,206
	120	13,80	1,2	44,50	4130	0,161
	150	15,40	1,4	49,50	5200	0,129
	185	16,90	1,6	55,20	6650	0,106
	240	19,50	1,7	61,90	8700	0,0801
	300	22	1,8	68	10900	0,0641

QUADRIPOLAR						
Conductor number N	**Nominal section mmq**	**Approximate conductor diameter mm**	**Average insulation thickness mm**	**Maximum external diameter mm**	**Indicative weight Kg/km**	**Electrical resistance at 20° C. Maximum Ω/Km**
4 G	1,5	1,5	0,7	13,40	168	13,30
	2,5	2	0,7	14,60	220	7,98
	4	2,5	0,7	16	300	4,95
	6	3	0,7	17,50	390	3,30
	10	4	0,7	19,80	590	1,91
	16	5	0,7	22,40	865	1,21
	25	6,20	0,9	26,80	1310	0,78

PENTAPOLAR						
Conductor number N	**Nominal section mmq**	**Approximate conductor diameter mm**	**Average insulation thickness mm**	**Maximum external diameter mm**	**Indicative weight Kg/km**	**Electrical resistance at 20° C. Maximum Ω/Km**
5 G	1,5	1,5	0,7	14,40	200	13,30
	2,5	2	0,7	15,60	265	7,98
	4	2,5	0,7	17,30	355	4,95
	6	3	0,7	18,90	470	3,30
	10	4	0,7	21,50	710	1,91
	16	5	0,7	24,40	1050	1,21
	25	6,20	0,9	29,30	1590	0,78
	35	7,40	0,9	32,80	2110	0,554
	50	8,90	1	38,20	3210	0,386

MULTIPOLAR (numbered cores)							
Nominal section mmq			**Approximate conductor diameter mm**	**Average insulation thickness mm**	**Maximum external diameter mm mm**	**Indicative weight Kg/km**	**Electrical resistance at 20° C. Maximum Ω/Km**
7	G	1,5	1,5	0,7	15,40	305	13,30
7	G	2,5	2	0,7	16,80	420	7,98
10	G	1,5	1,5	0,7	18,70	395	13,40
10	G	2,5	2	0,7	20,60	525	8,06
12	G	1,5	1,5	0,7	19,30	440	13,40
12	G	2,5	2	0,7	21,30	595	8,06
16	G	1,5	1,5	0,7	21,10	545	13,40
16	G	2,5	2	0,7	23,30	750	8,06
19	G	1,5	1,5	0,7	22,10	620	13,40
19	G	2,5	2	0,7	24,50	845	8,06
24	G	1,5	1,5	0,7	25,40	765	13,50
24	G	2,5	2	0,7	28,30	1040	8,10