



FG16OM16

Power cable 0,6/1 kV with Cu conductors, rubber G16 insulated and HFFR sheathed

APPLICATION

Reference Guidance CEI 20-67:

Particularly suitable for places where there is a risk of fire and high presence of people where it is essential to guarantee the preservation and preservation of plants and equipment from the attack of corrosive gases (offices, schools, supermarkets, cinemas, theaters, discos etc.). Suitable to be used indoor or outdoor, even in wet environments; it can be fixed on walls or metal structures, free in air, inside pipes or similar system. Suitable also for laying underground.

CONSTRUCTION

Conductors: Cu, class 5 according to EN 60228

Insulation: Rubber compound G16 quality

Sheath: LSOH compound M16 quality, green

CORE IDENTIFICATION

According to HD 308 S2

Insulation Color:

2-core: ● Brown ● Blue

3-core (a): ● Green/Yellow ● Brown ● Blue

3-core (b): ● Black ● Brown ● Grey

4-core (a): ● Green/Yellow ● Brown ● Black ● Grey

4-core (b): ● Blue ● Brown ● Black ● Grey

5-core: ● Green/Yellow ● Blue ● Brown ● Black ● Grey

Outer Sheath Colour:

● Green

Other colours available on request

TECHNICAL CHARACTERISTICS

CPR class: Cca – s1b,d1,a1

Test voltage: 4 kV

Rated voltage: 0,6/1 kV

Bending radius (min): single-core- 4D

Min. installation temperature: 0°C

Min. working temperature: -15°C

Max. working temperature: 90°C

Max. short-circuit temperature: 250°C

Max. tensile stress: 50 N/mm²

STANDARD

CEI 20-13, CEI-UNEL 35324,

CEI-UNEL 35328

CERTIFICATION



International
Electrotechnical
Commission



NOMINAL CROSS-SECTION	MAX. RESISTANCE AT 20°C	APPROX. CONDUCTOR Ø	AVERAGE INSULATION THICKNESS	AVERAGE SHEATH THICKNESS	CURRENT CAPACITY UNDERGROUND IN PIPE, 20°C	CURRENT CAPACITY IN PIPE IN AIR, 30°C	APPROX. OUTER DIAMETER	CABLE WEIGHT (APPROX.)
mm ²	Ω/km	mm	mm	mm	A	A	mm	kg/km
2x1,5	13,30	1,6	0,7	1,8	23	22	10,2	160
2x2,5	7,98	1,9	0,7	1,8	30	30	11,2	198
2x4	4,95	2,5	0,7	1,8	39	40	12,3	260
2x6	3,30	3,0	0,7	1,8	49	51	13,3	320
2x10	1,91	4,0	0,7	1,8	66	69	15,5	435
2x16	1,21	5,0	0,7	1,8	86	91	17,3	585
2x25	0,780	6,2	0,9	1,8	111	119	20,8	860
2x35	0,554	7,6	0,9	1,8	136	140	23,0	1115
2x50	0,386	8,9	1,0	1,8	168	175	26,6	1520
2x70	0,272	10,5	1,1	1,8	207	221	29,6	2020
2x95	0,206	12,5	1,1	2,0	245	265	34,0	2680
2x120	0,161	13,7	1,2	2,1	284	305	37,4	3320
2x150	0,129	15,0	1,4	2,2	324	334	41,6	4150

NOMINAL CROSS-SECTION	MAX. RESISTANCE AT 20°C	APPROX. CONDUCTOR Ø	AVERAGE INSULATION THICKNESS	AVERAGE SHEATH THICKNESS	CURRENT CAPACITY UNDERGROUND IN PIPE, 20°C	CURRENT CAPACITY IN PIPE IN AIR, 30°C	APPROX. OUTER DIAMETER	CABLE WEIGHT (APPROX.)
mm ²	Ω/km	mm	mm	mm	A	A	mm	kg/km
3x1,5	13,30	1,6	0,7	1,8	19	19,5	10,7	186
3x2,5	7,98	1,9	0,7	1,8	25	26	11,8	235
3x4	4,95	2,5	0,7	1,8	32	35	12,9	295
3x6	3,30	3,0	0,7	1,8	41	44	14,0	370
3x10	1,91	4,0	0,7	1,8	55	60	16,4	520
3x16	1,21	5,0	0,7	1,8	72	80	18,3	715
3x25	0,780	6,2	0,9	1,8	93	105	22,1	1065
3x35	0,554	7,6	0,9	1,8	114	128	24,5	1395
3x50	0,386	8,9	1,0	1,8	141	154	28,4	1905
3x70	0,272	10,5	1,1	1,9	174	194	31,9	2585
3x95	0,206	12,5	1,1	2,0	206	233	35,4	3320
3x120	0,161	13,7	1,2	2,1	238	268	39,0	4125
3x150	0,129	15,0	1,4	2,3	272	300	43,6	5210
3x185	0,106	17,7	1,6	2,4	306	340	51,7	6640
3x240	0,0801	19,9	1,7	2,6	360	398	59,0	8710
3x300	0,0641	22,4	1,8	2,8	-	455	65,4	10920

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mm ²	Ω/km	mm	mm	mm	A	A	mm	kg/km
5G1,5	13,30	1,6	0,7	1,8	19	19,5	12,3	245
5G2,5	7,98	1,9	0,7	1,8	25	26	13,6	320
5G4	4,95	2,5	0,7	1,8	32	35	15,1	415
5G6	3,30	3,0	0,7	1,8	41	44	16,4	525
5G10	1,91	4,0	0,7	1,8	55	60	19,3	750
5G16	1,21	5,0	0,7	1,8	72	80	21,9	1060
5G25	0,780	6,2	0,9	1,8	93	105	26,5	1590
5G35	0,554	7,6	0,9	1,8	114	128	29,5	2100
5G50	0,386	8,9	1,0	2,0	141	154	34,8	2920

Permissible current rating values are according to:

- three-phase circuit
- laying depth of 0,8 m for buried cables

K = 1 - resistivity of the ground equal to 1,0 K-m/W

K = 1,5 - resistivity of the ground equal to 1,5 K-m/W

