

FG16M16 - 0,6/1 kV Power



POWER CABLE, HEPR INSULATED (G16), THERMOPLASTIC SHEATHED (M16), WITH SPECIAL REQUIREMENTS OF REACTION TO FIRE PERFORMANCE ACCORDING TO CONSTRUCTION PRODUCTS REGULATION(CPR)



DoP 00019 - Class: Cca-s1b,d1,a1

REACTION TO FIRE SPECIFICATION:

Cables for general applications in construction work subject to reaction to fire requirements with reference to EU regulation 305/2011 and EN 50575:2014+A1:2016

SUITABLE FOR:

Halogen-free and low smoke and acid cables used in buildings and other civil engineering works in order to limit the generation and spread of fire and smoke toxic to humans and the environment. Possibility of being directly buried. Use also in wet rooms or outdoors (AD7). For other details, it is advisable to refer to CEI 20-67 "Guide to the use of 0.6/1 kV cables" for other details.

TECHNICAL FEATURE

Rated Voltage	Max operating temperature	Min temperature of installation	Max stocking temperature	Max temperature of short circuit	Min internal bending radius	Max mechanical stress
600/1000 V	90°C	0°C	40°C	250°C	4xD	50 N/mm ²

CONSTRUCTION FEATURES

CONDUCTORS:

Flexible annealed bare copper, class 5 according to CEI EN 60228

INSULATION:

High modulus ethylene propylene rubber-based HEPR insulation compound with low smoke and acidity according to CEI 20-11/0/1;V1 (G16 quality)

SHEATH:

Thermoplastic sheathing compound with low smoke and acidity according to CEI 20-11/0/1;V1 (M16 quality)

IDENTIFICATION COLOURS:

Black core

MARKING: Ink Jet

MN FG16M16 0,6/1 KV (SECTION) CEI-UNEL 35324 IEMMEQU EFP
ECOPECSO LINE - Cca-s1b,d1,a1 CE WW/YY (METER MARKING)

FEATURES:

Minimum operating temperature: -15°C

GUIDE TO USE

Power supply energy cables suitable for limiting fire spread, production and diffusion of opaque smoke and acid gases. Suitable for bundled installations in environments at higher risk in case of fire due to high crowding density or high time of displacement in case of fire or high damage to animals and property such as health care facilities (IEC 64-56), public entertainment venues, shopping malls, hotel facilities. Suitable indoors or outdoors even in wet environments, for fixed installation in free air, in pipe or duct, on masonry and metal structures or suspended.

STANDARDS:

CEI EN 60228;
CEI 20-11/0-1;V1;
CEI 20-13;
CEI UNEL 35324;
CEI 20-67;

electricables

DIMENSIONAL FEATURES AND ELETTRICAL PROPERTY

n° x mm²	number and nominal cross-sectional area of conductors	Ø Max diameter (mm)	CONDUCTOR		INSULATION thickness (mm)	SHEATH thickness (mm)	WEIGHT Indicative weight of cable (g/m)
			Ø diameter max. of wires (mm)	max resistance res. el. (ohm/km) redcu			
	1x10	10,9	0,41	1.91	0,70	1,50	202,00
						ARTICLE CODE	CM1601100
	1x16	11,4	0,41	1.21	0,70	1,50	264,00
						ARTICLE CODE	CM1601160
	1x25	13,2	0,41	0.78	0,90	1,50	370,00
						ARTICLE CODE	CM1601250
	1x35	14,6	0,41	0.554	0,90	1,50	478,00
						ARTICLE CODE	CM1601350
	1x50	16,4	0,41	0.386	1,00	1,50	645,00
						ARTICLE CODE	CM1601500
	1x70	18,3	0,51	0.272	1,10	1,50	850,00
						ARTICLE CODE	CM1601700
	1x95	20,4	0,51	0.206	1,10	1,60	1.090,00
						ARTICLE CODE	CM1601950
	1x120	22,4	0,51	0.161	1,20	1,60	1.351,00
						ARTICLE CODE	CM1611200
	1x150	24,8	0,51	0.129	1,40	1,70	1.686,00
						ARTICLE CODE	CM1611500
	1x185	27,2	0,51	0.106	1,60	1,70	2.009,00
						ARTICLE CODE	CM1611850
	1x240	30,4	0,51	0.0801	1,70	1,80	2.548,00
						ARTICLE CODE	UM1612400