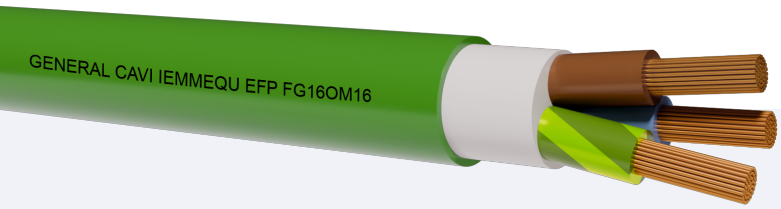
FOR ITALIAN MARKET

FG16M16 / FG16OM16 0,6/1 kV

CPR Cca-s1b,d1,a1

Model Product: A60-A61 - 20220222



POWER AND CONTROL CABLES INSULATED IN G16 HIGH QUALITY HEPR NOT PROPAGATING FIRE, HALOGEN FREE AND WITH LOW EMISSION OF SMOKES, TOXIC AND CORROSIVE GASES.(CPR)UE 305/11

Class 5 flexible copper conductor.
Elastomeric mixture insulation (G16 quality).
Not fibrous and not hygroscopic filler
LSZH thermoplastic sheath, M16.

STANDARDS

CEI 20-13 CEI 20-38 pqa IEC 60502-1 CEI UNEL 35324 -35328-35016
EN 50575:2014+A1:2016(EN 50399/EN 60332-1-2/EN 60754)

Accordingly to the standards BT 2014/35/UE- 2011/65/EU (RoHS 3)

Nominal voltage U0: 600V(AC) 1800V(DC)
Nominal voltage U: 1kV(AC)1,8kV(DC)
Test voltage: 4000 V
Maximun voltage Um: 1,2kV(AC)1,8kV(DC)
Maximun operating temperature: 90°C
Maximun short circuit temperature for sections up to 240mm²: +250°C
Maximun short circuit temperature for sections over 240mm²: +220°C
Minimum installation and laying temperature: 0°C
Min. operating temperature (without mechanical shocks): -15°C
Minimum installation and laying temperature: 0°C

COMMON FEATURES

For electrical power system in constructions alnd other civil engineering bulginngs,in order to limit fire and smoke production and spread,in accordance with the CPR. Suitable for fixed installations at open air, in tube or canals, masonry, metals structures, overhead wire and for direct or indirect underground wiring. The most important property of this kind of cable is its protection against smokes, toxic and corrosive gases in case of fire.Power and control use outdoor applications, even wet AD7.

EMPLOYMENT

Minimum bending radius per D cable diameter (in mm):
Power flexible cables, class 5 = 4D
Control flexible cables, class 5 = 6D

Maximum pulling stress: During installation= 50 N/mm²
Static stress = 15 N/mm²

PACKING

Drums to agree.

CORE COLOURS

Single core: Black

Two cores: blue-brown

Three cores: brown-black-gray (or blue-brown-Y/G)

Four cores: blue-brown-black-gray (or Y/G instead blue)

Five cores: Y/G-blue-brown-black-gray (or black instead Y/G)

Multicores: black with numbers

SHEATH COLOUR

Preferably Green

INK MARKING

GENERALCAVI -Cca-s1b,d1,a1- IEMMEQU EFP - year - FG16(O)M16-0,6/1 kV - form x sect. - inner work order - progressive lenght

NOTE

Special features on request:RI (Hydrocarbon Resistant) CEI 20-34 / 0-1 and PQA to OIL & GAS specifications Preferably Black Sheath

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Cores number	Cross section	Approx conductor diameter	Insulation medium thickness	Max exsternal production diameter	Approx cable weight	Electric resistance at 20°C	Current carrying capacities	
							30° In pipe	20°C In ground
(N°)	(mm²)	(mm)	(mm)	(mm)	(kg/km)	(Ohm/km)	(A)	(A)
Single core								
1x	6*	3.4	0.7	9.90	110	3.3	48	44
1x	10	4.4	0.7	10.9	131	1.91	66	59
1x	16	5.7	0.7	11.4	175	1.21	88	77
1x	25	6.9	0.9	13.2	325	0.78	117	100
1x	35	8.1	0.9	14.6	424	0.554	144	121
1x	50	9.8	1.0	16.4	577	0.386	175	150
1x	70	11.6	1.1	18.3	778	0.272	222	184
1x	95	13.3	1.1	20.4	997	0.206	269	217
1x	120	15.1	1.2	22.4	1236	0.161	312	259
1x	150	16.8	1.4	24.8	1511	0.129	355	287
1x	185	18.6	1.6	27.0	1812	0.106	417	323
1x	240	21.4	1.7	30.2	2331	0.0801	490	379
1x	300	23.9	1.8	33.0	2924	0.0641	-	429
1x	400*	27.5	2	37.7	3875	0.0486	-	541
1x	500*	28.5	2.1	45.0	4953	0.0384	-	599
1x	630*	32.8	2.3	51.1	6558	0.0287	-	683
Two cores								
2x	1.5	1.6	0.7	12.0	151	13.3	22	23
2x	2.5	2.0	0.7	13.0	196	7.98	30	30
2x	4	2.6	0.7	14.2	258	4.95	40	39
2x	6	3.4	0.7	15.4	326	3.3	51	49
2x	10	4.4	0.7	17.3	503	1.91	69	66
2x	16	5.7	0.7	19.4	689	1.21	91	86
2x	25	6.9	0.9	23.0	976	0.78	119	111
2x	35	8.1	0.9	25.7	1363	0.554	146	136
2x	50	9.8	1.0	29.3	1888	0.386	175	168
2x	70	11.6	1.1	33.1	2658	0.272	221	207
2x	95	13.3	1.1	37.4	3389	0.206	265	245
2x	120	15.1	1.2	41.5	4285	0.161	305	284
2x	150	16.8	1.4	46.1	5284	0.129	-	324
2x	185*	18.6	1.6	48.77	6546	0.106	-	380
2x	240*	21.4	1.7	57,73	8556	0.0801	-	430
Three cores								
3x	1.5	1.6	0.7	12.5	151	13.3	19.5	19

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							30° In pipe	20°C In ground
(N°)	(mm²)	(mm)	(mm)	(mm)	(kg/km)	(Ohm/km)	(A)	(A)
3x	2.5	2.0	0.7	13.6	196	7.98	26	25
3x	4	2.6	0.7	14.9	258	4.95	35	32
3x	6	3.4	0.7	16.2	326	3.3	44	41
3x	10	4.4	0.7	18.2	503	1.91	60	55
3x	16	5.7	0.7	20.6	689	1.21	80	72
3x	25	6.9	0.9	24.5	976	0.78	105	93
3x	35	8.1	0.9	27.3	1362	0.554	128	114
3x	50	9.8	1.0	31.2	1888	0.368	154	141
3x	70	11.6	1.1	35.6	2658	0.272	194	174
3x	95	13.3	1.1	40.0	3389	0.206	233	206
3x	120	15.1	1.2	44.4	4285	0.161	268	238
3x	150	16.8	1.4	49.5	5284	0.129	300	272
3x	185	18.6	1.6	55.2	6546	0.106	340	306
3x	240	21.4	1.7	61.9	10814	0.0801	398	360
3x	300	22.5	1.8	68.0	14510	0.0641	-	429
Four cores								
4x	1.5	1.6	0.7	13.4	180	13.3	19.5	19
4x	2.5	2.0	0.7	14.6	224	7.98	26	25
4x	4	2.6	0.7	16.0	309	4.95	35	32
4x	6	3.4	0.7	17.5	409	3.3	44	41
4x	10	4.4	0.7	19.8	620	1.91	60	55
4x	16	5.7	0.7	22.4	881	1.21	80	72
4x	25	6.9	0.9	26.8	1235	0.78	105	93
4x	35*	8.1	0.9	30.5	1707	0.554	128	114
4x	50*	9.8	1.0	33.5	2361	0.386	154	141
4x	70*	11.6	1.1	38.5	3351	0.272	194	174
4x	95*	13.3	1.1	43.5	4356	0.206	233	206
4x	185*	18.6	1.7	60.3	8930	0.106	340	306
4x	240*	21.4	1.7	70.5	10821	0.0801	398	360
3x35+1x25		8.1	0.9	29.2	1569	0.554	120	114
3x50+1x25		9.8	1.0	32.4	2184	0.386	154	141
3x70+1x35		11.6	1.1	37.0	3108	0.272	194	174
3x95+1x50		13.3	1.1	42.0	4119	0.206	233	206
3x120+1x70		15.1	1.2	46.9	5354	0.161	268	238
3x150+1x95		16.8	1.4	52.5	6679	0.129	300	272
3x185+1x95		18.6	1.6	57.3	8155	0.106	340	306

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							30° In pipe	20°C In ground
(N°)	(mm²)	(mm)	(mm)	(mm)	(kg/km)	(Ohm/km)	(A)	(A)
3x240+1x150		21.4	1.7	65.5	10334	0.0801	398	360
3x300+1x150		22.5	1.8	70.8	13078	0.0641	455	429
Five cores								
5x	1.5	1.6	0.7	14.4	201	13.3	19.5	19
5x	2.5	2.0	0.7	15.6	261	7.98	26	25
5x	4	2.6	0.7	17.3	364	4.95	35	32
5x	6	3.4	0.7	18.9	469	3.3	44	41
5x	10	4.4	0.7	21.5	744	1.91	60	56
5x	16	5.7	0.7	24.4	1100	1.21	80	72
5x	25	6.9	0.9	29.3	1554	0.78	105	93
5x	35	8.1	0.9	32.8	2148	0.554	130	114
5x	50	9.8	1.0	38.2	3027	0.386	155	141
5x	70*	11.6	1.1	44.58	4321	0.272	194	174
5x	95*	13.3	1.1	49,28	5562	0.206	235	206
5x	120*	15.1	1.2	55.06	6920	0.161	267	238
Multicores								
7x	1.5	1.6	0.7	15.4	261	13.3	11.5	16
7x	2.5	2.0	0.7	16.8	348	7.98	15.5	21
10x	1.5	1.6	0.7	18.7	303	13.3	11.5	16
10x	2.5	2.0	0.7	20.8	401	7.98	15.5	21
12x	1.5	1.6	0.7	19.3	358	13.3	12.5	9.5
12x	2.5	2.0	0.7	21.3	497	7.98	17.5	12
16x	1.5	1.6	0.7	21.1	535	13.3	12.5	9.5
16x	2.5	2.0	0.7	23.3	731	7.98	17.5	12
19x	1.5	1.6	0.7	22.1	593	13.3	11.5	8.0
19x	2.5	2.0	0.7	24.5	824	7.98	14.0	10.5
24x	1.5	1.6	0.7	25.4	677	13.3	11.5	8.0
24x	2.5	2.0	0.7	28.3	1020	7.98	14.0	10.5

Three, four, five and multicores cables can be produced also with Y/G core. Current carrying capacities for single core cables are calculated on 3 close cables, for two core cables with two charged conductors and for three core cables with three charged conductors. .
Current Carrying capacities acording to UNEL 35026 with underground laying standard CEI 64-8-61 (ground temp=20°C, depth=0.8m, ground resistivity=1.5 k m/W.).
The sections marked with (*) appear in the UNEL tables, not subject to the IMQ EFP mark, but comply with EU Regulation 305/11 (CPR)