

Multicore Power Cable - 103

CPR EU 305/2011

**CU, G16 INSULATION, M16 INNER SHEATH, STEEL WIRE ARMOUR, M16 OUTER SHEATH.
IEC 60332.1 IEC 60332.3 - HALOGEN FREE**

Technical Specifications n° 103/18 of 24/01/2022 Rev. 1

Type: FG160M16AM16 0,6/1KV - FG160M16FM16 0,6/1 KV
Conductor: Flexible copper conductor according to IEC 60228 cl.5
Insulation: EPR G16 type extruded compound
 Temperature range -30 +90° C
 Temperature laying 0 +70° C

SIZE	THICKNESS
1,50 mm ²	0,70 ± 0,02 mm
2,5 mm ²	0,70 ± 0,02 mm
4 mm ²	0,7 ± 0,02 mm
6 mm ²	0,70 ± 0,02 mm
10 mm ²	0,70 ± 0,02 mm
16 mm ²	0,70 ± 0,02 mm
25 mm ²	0,90 ± 0,02 mm
35 mm ²	0,90 ± 0,02 mm
50 mm ²	1,00 ± 0,02 mm
70 mm ²	1,10 ± 0,02 mm
95 mm ²	1,10 ± 0,02 mm
120 mm ²	1,20 ± 0,02 mm

Laying up: Twisted to core, UNEL (or to be agreed)
Inner sheath: M16 LSZH extruded compound
Armour: Galvanized steel round wires plus wrapping polyester tape (SWA) or Galvanized steel wires braid (SWB)
Outer sheath: M16 LSZH extruded compound
 Colour: Grey/Black (or to be agreed)
Marking: On the outer sheath "Sensitherm – FG160M16FM16 0,6/1 KV Siz. IEC 60332.3
 WWW/YY (Batch/Num.) Cca s1b-d1-a1 0001 m"

- Performance:**
- Test voltage core to core 3,5KV
 - Flame retardant according to IEC60 332-3-22, CEI 20-22/2
 - Low smoke and Halogen free as per IEC 60754-2, CEI 20-37/2
 - Low smoke density emiss. IEC 61034 1/2
 - Hydrocarbon and UV resistant
 - Rodent resistant
 - Fit for direct burial
 - Cable for intrinsically safe application
 - Inductance $\leq 0,90\text{mH/Km}$
 - Capacitance $\leq 0,200\mu\text{F/Km}$
 - This cable is suitable to be used in ATEX area following the EN60079-14 prescription (excluding annex E)
 - EN50575 tested for approval, Cca s1b,d1,a1

ITEM	THICK. INNER SHEATH MM	Ø OVER INNER SHEATH MM	THICK. OUTER SHEATH MM	OVERAL DIAMETER MM	WEIGHT KG/KM		
FG160M16FM16	0,6/1KV	2x1,5 mm ²	1,0	7,9	1,8	13,4	260
FG160M16FM16	0,6/1KV	3x1,5 mm ²	1,0	8,4	1,8	13,8	300
FG160M16FM16	0,6/1KV	4x1,5 mm ²	1,0	9	1,8	14,6	340
FG160M16FM16	0,6/1KV	5x1,5 mm ²	1,0	10	1,8	15,5	390
FG160M16FM16	0,6/1KV	6x1,5 mm ²	1,0	10,6	1,8	16,4	440
FG160M16FM16	0,6/1KV	7x1,5 mm ²	1,0	10,8	1,8	16,5	460
FG160M16FM16	0,6/1KV	10x1,5 mm ²	1,0	13,6	1,8	19,2	620
FG160M16FM16	0,6/1KV	12x1,5 mm ²	1,0	14,2	1,8	20	670
FG160M16FM16	0,6/1KV	16x1,5 mm ²	1,0	15,8	1,8	21,5	830
FG160M16FM16	0,6/1KV	20x1,5 mm ²	1,0	17,6	2,0	23,5	1020
FG160M16FM16	0,6/1KV	24x1,5 mm ²	1,0	20	2,0	25,5	1110
FG160M16FM16	0,6/1KV	48x1,5 mm ²	1,0	26	2,0	32	2000
FG160M16FM16	0,6/1KV	2x2,5 mm ²	1,0	9	1,8	14,4	310
FG160M16FM16	0,6/1KV	3x2,5 mm ²	1,0	9,4	1,8	14,8	360
FG160M16FM16	0,6/1KV	4x2,5 mm ²	1,0	10,2	1,8	15,7	420
FG160M16FM16	0,6/1KV	5x2,5 mm ²	1,0	11,2	1,8	16,8	480
FG160M16FM16	0,6/1KV	6x2,5 mm ²	1,0	12,4	1,8	17,8	560
FG160M16FM16	0,6/1KV	7x2,5 mm ²	1,0	12,2	1,8	18,2	610
FG160M16FM16	0,6/1KV	10x2,5 mm ²	1,0	15,8	1,8	21,6	830
FG160M16FM16	0,6/1KV	12x2,5 mm ²	1,0	16	1,8	21,8	870
FG160M16FM16	0,6/1KV	16x2,5 mm ²	1,0	18,2	2,0	23,8	1140
FG160M16FM16	0,6/1KV	20x2,5 mm ²	1,0	20,6	2,0	26	1350
FG160M16FM16	0,6/1KV	24x2,5 mm ²	1,2	23	2,0	28,8	1500
FG160M16FM16	0,6/1KV	48x2,5 mm ²	1,2	29	2,0	34	2740

FG160M16FM16	0,6/1KV	2x4 mm ²	1,0	9,8	1,8	15,4	370
FG160M16FM16	0,6/1KV	3x4 mm ²	1,2	10,3	1,8	16	440
FG160M16FM16	0,6/1KV	4x4 mm ²	1,0	11,5	1,8	17	520
FG160M16FM16	0,6/1KV	5x4 mm ²	1,0	12,5	1,8	18	610
FG160M16FM16	0,6/1KV	7x4 mm ²	1,0	13,7	1,8	19,7	790
FG160M16FM16	0,6/1KV	2x6 mm ²	1,0	11,2	1,8	17	450
FG160M16FM16	0,6/1KV	3x6 mm ²	1,0	11,8	1,8	17,5	550
FG160M16FM16	0,6/1KV	4x6 mm ²	1,0	13	1,8	18,6	670
FG160M16FM16	0,6/1KV	5x 6 mm ²	1,2	14,6	2,0	20,6	780
FG160M16FM16	0,6/1KV	2x10 mm ²	1,0	14,8	1,8	20,8	660
FG160M16FM16	0,6/1KV	3x10 mm ²	1,0	15,8	1,8	21,4	830
FG160M16FM16	0,6/1KV	4x10 mm ²	1,2	18	1,8	23,5	1050
FG160M16FM16	0,6/1KV	5x10 mm ²	1,2	20	2,0	25,6	1240
FG160M16FM16	0,6/1KV	2x16 mm ²	1,0	18	1,8	23,4	900
FG160M16FM16	0,6/1KV	3x16mm ²	1,2	19	2,0	25	1190
FG160M16FM16	0,6/1KV	4x16 mm ²	1,2	21	2,0	26,8	1470
FG160M16FM16	0,6/1KV	5x16 mm ²	1,2	23	2,0	29	1760
FG160M16FM16	0,6/1KV	2x25 mm ²	1,2	22	2,0	26	1300
FG160M16FM16	0,6/1KV	3x25 mm ²	1,2	22	2,0	28	1600
FG160M16FM16	0,6/1KV	4x25 mm ²	1,2	24,5	2,0	30	2000
FG160M16FM16	0,6/1KV	5x25 mm ²	1,2	27	2,0	33	2400
FG160M16FM16	0,6/1KV	3x35 mm ²	1,2	25	2,0	30	2040
FG160M16FM16	0,6/1KV	3½x35 mm ²	1,2	27	2,0	33	2580
FG160M16FM16	0,6/1Kv	5x35 mm ²	1,2	34	2,0	40	3100
FG160M16FM16	0,6/1KV	3x50 mm ²	1,2	29	2,0	34	2700
FG160M16FM16	0,6/1KV	3½x50 mm ²	1,2	31	2,0	37	3420
FG160M16FM16	0,6/1KV	3x70 mm ²	1,2	33	2,0	38	3530
FG160M16FM16	0,6/1KV	3½x70 mm ²	1,4	36	2,0	42	4500
FG160M16FM16	0,6/1Kv	3x95 mm ²	1,4	36	2,0	42	4540
FG160M16FM16	0,6/1KV	3½x95 mm ²	1,4	41	2,0	46	5800
FG160M16FM16	0,6/1KV	3x120 mm ²	1,4	42	2,0	47	5500
FG160M16FM16	0,6/1KV	3½x120 mm ²	1,4	44	2,0	50	7080
FG160M16FM16	0,6/1KV	5 G 50 mm ²	1,2	35	2,0	40	3990

Weight and diameter: Are theoretical +/- 10%

Intended use: Multicore power cable in buildings and other civil engineering works with the objective of limiting the generation and spread of fire and smoke.