

Multicore Power Cable – 103-2

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° 103-2/23 of 10/11/2023 Rev. 0

Type: FG16OM16FM16 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 0,9 mm plus wrapping polyester tape (SWA)
Outer sheath: M16 LSZH extruded compound
Colour: Grey/Black/Green (or to be agreed)
Marking: On the outer sheath "Sensitherm – FG16OM16FM16 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

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

CODE OUTER SHEATH BLACK	CODE OUTER SHEATH GREY	ITEM	Ø OVER INNER SHEATH MM	THICK. OUTER SHEATH MM	OVERAL DIAMETER MM	WEIGHT KG/KM	BENDING RADIUS MM
1032900501	1032703501	FG160M16FM16 0,6/1KV 2x1,5 mm ²	7,9	1,8	13,4	260	190
1032900502	1032703502	FG160M16FM16 0,6/1KV 3x1,5 mm ²	8,4	1,8	13,8	300	190
1032900503	1032703503	FG160M16FM16 0,6/1KV 4x1,5 mm ²	9	1,8	14,6	340	200
1032900504	1032703504	FG160M16FM16 0,6/1KV 5x1,5 mm ²	10	1,8	15,5	390	210
1032900505	1032703505	FG160M16FM16 0,6/1KV 6x1,5 mm ²	10,6	1,8	16,4	440	230
1032900506	1032703506	FG160M16FM16 0,6/1KV 7x1,5 mm ²	10,8	1,8	16,5	460	230
1032900507	1032703507	FG160M16FM16 0,6/1KV 10x1,5 mm ²	13,6	1,8	19,2	620	270
1032900508	1032703508	FG160M16FM16 0,6/1KV 12x1,5 mm ²	14,2	1,8	20	670	280
1032900509	1032703509	FG160M16FM16 0,6/1KV 16x1,5 mm ²	15,8	1,8	21,5	830	300
1032900510	1032703510	FG160M16FM16 0,6/1KV 20x1,5 mm ²	17,6	2,0	23,5	1020	330
1032900511	1032703511	FG160M16FM16 0,6/1KV 24x1,5 mm ²	20	2,0	25,5	1110	360
1032900512	1032703512	FG160M16FM16 0,6/1KV 48x1,5 mm ²	26	2,0	32	2000	450
1032900513	1032703513	FG160M16FM16 0,6/1KV 2x2,5 mm ²	9	1,8	14,4	310	200
1032900514	1032703514	FG160M16FM16 0,6/1KV 3x2,5 mm ²	9,4	1,8	14,8	360	210
1032900515	1032703515	FG160M16FM16 0,6/1KV 4x2,5 mm ²	10,2	1,8	15,7	420	220
1032900516	1032703516	FG160M16FM16 0,6/1KV 5x2,5 mm ²	11,2	1,8	16,8	480	230
1032900517	1032703517	FG160M16FM16 0,6/1KV 6x2,5 mm ²	12,4	1,8	17,8	560	250
1032900518	1032703518	FG160M16FM16 0,6/1KV 7x2,5 mm ²	12,2	1,8	18,2	610	260
1032900519	1032703519	FG160M16FM16 0,6/1KV 10x2,5 mm ²	15,8	1,8	21,6	830	300
1032900520	1032703520	FG160M16FM16 0,6/1KV 12x2,5 mm ²	16	1,8	21,8	870	310
1032900521	1032703521	FG160M16FM16 0,6/1KV 16x2,5 mm ²	18,2	2,0	23,8	1140	330
1032900522	1032703522	FG160M16FM16 0,6/1KV 20x2,5 mm ²	20,6	2,0	26	1350	360
1032900523	1032703523	FG160M16FM16 0,6/1KV 24x2,5 mm ²	23	2,0	28,8	1500	400
1032900524	1032703524	FG160M16FM16 0,6/1KV 48x2,5 mm ²	29	2,0	34	2740	480
1032900525	1032703525	FG160M16FM16 0,6/1KV 2x4 mm ²	9,8	1,8	15,4	370	220
1032900526	1032703526	FG160M16FM16 0,6/1KV 3x4 mm ²	10,3	1,8	16	440	220
1032900527	1032703527	FG160M16FM16 0,6/1KV 4x4 mm ²	11,5	1,8	17	520	240
1032900528	1032703528	FG160M16FM16 0,6/1KV 5x4 mm ²	12,5	1,8	18	610	250

1032900529	1032703529	FG160M16FM16	0,6/1KV	7x4 mm ²	13,7	1,8	19,7	790	280
1032900530	1032703530	FG160M16FM16	0,6/1KV	2x6 mm ²	11,2	1,8	17	450	240
1032900531	1032703531	FG160M16FM16	0,6/1KV	3x6 mm ²	11,8	1,8	17,5	550	250
1032900532	1032703532	FG160M16FM16	0,6/1KV	4x6 mm ²	13	1,8	18,6	670	260
1032900533	1032703533	FG160M16FM16	0,6/1KV	5x 6 mm ²	14,6	2,0	20,6	780	290
1032900534	1032703534	FG160M16FM16	0,6/1KV	2x10 mm ²	14,8	1,8	20,8	660	290
1032900535	1032703535	FG160M16FM16	0,6/1KV	3x10 mm ²	15,8	1,8	21,4	830	300
1032900536	1032703536	FG160M16FM16	0,6/1KV	4x10 mm ²	18	1,8	23,5	1050	330
1032900537	1032703537	FG160M16FM16	0,6/1KV	5x10 mm ²	20	2,0	25,6	1240	360
1032900538	1032703538	FG160M16FM16	0,6/1KV	2x16 mm ²	18	1,8	23,4	900	330
1032900539	1032703539	FG160M16FM16	0,6/1KV	3x16mm ²	19	2,0	25	1190	350
1032900540	1032703540	FG160M16FM16	0,6/1KV	4x16 mm ²	21	2,0	26,8	1470	380
1032900541	1032703541	FG160M16FM16	0,6/1KV	5x16 mm ²	23	2,0	29	1760	410
1032900542	1032703542	FG160M16FM16	0,6/1KV	2x25 mm ²	22	2,0	26	1300	360
1032900543	1032703543	FG160M16FM16	0,6/1KV	3x25 mm ²	22	2,0	28	1600	390
1032900544	1032703544	FG160M16FM16	0,6/1KV	4x25 mm ²	24,5	2,0	30	2000	420
1032900545	1032703545	FG160M16FM16	0,6/1KV	5x25 mm ²	27	2,0	33	2400	460
1032900546	1032703546	FG160M16FM16	0,6/1KV	3x35 mm ²	25	2,0	30	2040	420
1032900547	1032703547	FG160M16FM16	0,6/1KV	3½x35 mm ²	27	2,0	33	2580	460
1032900548	1032703548	FG160M16FM16	0,6/1KV	5x35 mm ²	34	2,0	40	3100	560
1032900549	1032703549	FG160M16FM16	0,6/1KV	3x50 mm ²	29	2,0	34	2700	480
1032900550	1032703550	FG160M16FM16	0,6/1KV	3½x50 mm ²	31	2,0	37	3420	520
1032900551	1032703551	FG160M16FM16	0,6/1KV	3x70 mm ²	33	2,0	38	3530	530
1032900552	1032703552	FG160M16FM16	0,6/1KV	3½x70 mm ²	36	2,0	42	4500	590
1032900553	1032703553	FG160M16FM16	0,6/1KV	3x95 mm ²	36	2,0	42	4540	590
1032900554	1032703554	FG160M16FM16	0,6/1KV	3½x95 mm ²	41	2,0	46	5800	650
1032900555	1032703555	FG160M16FM16	0,6/1KV	3x120 mm ²	42	2,0	47	5500	660
1032900556	1032703556	FG160M16FM16	0,6/1KV	3½x120 mm ²	44	2,0	50	7080	700
1032900557	1032703557	FG160M16FM16	0,6/1KV	5 G 50 mm ²	35	2,0	40	3990	560

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.