

Multicore Power Cable – 103-1

CPR EU 305/2011

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

Technical Specifications n° 103-1/23 of 10/11/2023 Rev. 0

Type: FG160M16AM16 0,6/1KV
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 wires braid (SWB)
Outer sheath: M16 LSZH extruded compound
 Colour: Grey/Black/Green (or to be agreed)
Marking: On the outer sheath "Sensitherm – FG160M16AM16 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
1031900501	1031703501	FG160M16AM16 0,6/1KV 2x1,5 mm ²	7,9	1,8	13	250	190
1031900502	1031703502	FG160M16AM16 0,6/1KV 3x1,5 mm ²	8,4	1,8	13,4	290	190
1031900503	1031703503	FG160M16AM16 0,6/1KV 4x1,5 mm ²	9	1,8	14,2	330	200
1031900504	1031703504	FG160M16AM16 0,6/1KV 5x1,5 mm ²	10	1,8	15	380	210
1031900505	1031703505	FG160M16AM16 0,6/1KV 6x1,5 mm ²	10,6	1,8	15,9	430	230
1031900506	1031703506	FG160M16AM16 0,6/1KV 7x1,5 mm ²	10,8	1,8	16	450	230
1031900507	1031703507	FG160M16AM16 0,6/1KV 10x1,5 mm ²	13,6	1,8	18,6	600	270
1031900508	1031703508	FG160M16AM16 0,6/1KV 12x1,5 mm ²	14,2	1,8	19,4	650	280
1031900509	1031703509	FG160M16AM16 0,6/1KV 16x1,5 mm ²	15,8	1,8	20,8	800	300
1031900510	1031703510	FG160M16AM16 0,6/1KV 20x1,5 mm ²	17,6	2,0	22,8	990	330
1031900511	1031703511	FG160M16AM16 0,6/1KV 24x1,5 mm ²	20	2,0	24,7	1080	360
1031900512	1031703512	FG160M16AM16 0,6/1KV 48x1,5 mm ²	26	2,0	31	1940	450
1031900513	1031703513	FG160M16AM16 0,6/1KV 2x2,5 mm ²	9	1,8	14	300	200
1031900514	1031703514	FG160M16AM16 0,6/1KV 3x2,5 mm ²	9,4	1,8	14,4	350	210
1031900515	1031703515	FG160M16AM16 0,6/1KV 4x2,5 mm ²	10,2	1,8	15,2	410	220
1031900516	1031703516	FG160M16AM16 0,6/1KV 5x2,5 mm ²	11,2	1,8	16,3	460	230
1031900517	1031703517	FG160M16AM16 0,6/1KV 6x2,5 mm ²	12,4	1,8	17,3	520	250
1031900518	1031703518	FG160M16AM16 0,6/1KV 7x2,5 mm ²	12,2	1,8	17,7	570	260
1031900519	1031703519	FG160M16AM16 0,6/1KV 10x2,5 mm ²	15,8	1,8	21	800	300
1031900520	1031703520	FG160M16AM16 0,6/1KV 12x2,5 mm ²	16	1,8	21,1	840	310
1031900521	1031703521	FG160M16AM16 0,6/1KV 16x2,5 mm ²	18,2	2,0	23	1100	330
1031900522	1031703522	FG160M16AM16 0,6/1KV 20x2,5 mm ²	20,6	2,0	25,2	1310	360
1031900523	1031703523	FG160M16AM16 0,6/1KV 24x2,5 mm ²	23	2,0	27,9	1450	400
1031900524	1031703524	FG160M16AM16 0,6/1KV 48x2,5 mm ²	29	2,0	33	2660	480
1031900525	1031703525	FG160M16AM16 0,6/1KV 2x4 mm ²	9,8	1,8	15	360	220
1031900526	1031703526	FG160M16AM16 0,6/1KV 3x4 mm ²	10,3	1,8	15,5	430	220
1031900527	1031703527	FG160M16AM16 0,6/1KV 4x4 mm ²	11,5	1,8	16,5	500	240
1031900528	1031703528	FG160M16AM16 0,6/1KV 5x4 mm ²	12,5	1,8	17,5	590	250

1031900529	1031703529	FG160M16AM16	0,6/1KV	7x4 mm ²	13,7	1,8	19,1	770	280
1031900530	1031703530	FG160M16AM16	0,6/1KV	2x6 mm ²	11,2	1,8	16,5	440	240
1031900531	1031703531	FG160M16AM16	0,6/1KV	3x6 mm ²	11,8	1,8	16,6	530	250
1031900532	1031703532	FG160M16AM16	0,6/1KV	4x6 mm ²	13	1,8	18	650	260
1031900533	1031703533	FG160M16AM16	0,6/1KV	5x 6 mm ²	14,6	2,0	20	750	290
1031900534	1031703534	FG160M16AM16	0,6/1KV	2x10 mm ²	14,8	1,8	20,2	640	290
1031900535	1031703535	FG160M16AM16	0,6/1KV	3x10 mm ²	15,8	1,8	20,8	800	300
1031900536	1031703536	FG160M16AM16	0,6/1KV	4x10 mm ²	18	1,8	22,8	1020	330
1031900537	1031703537	FG160M16AM16	0,6/1KV	5x10 mm ²	20	2,0	24,8	1200	360
1031900538	1031703538	FG160M16AM16	0,6/1KV	2x16 mm ²	18	1,8	22,7	870	330
1031900539	1031703539	FG160M16AM16	0,6/1KV	3x16mm ²	19	2,0	24,3	1150	350
1031900540	1031703540	FG160M16AM16	0,6/1KV	4x16 mm ²	21	2,0	26	1430	380
1031900541	1031703541	FG160M16AM16	0,6/1KV	5x16 mm ²	23	2,0	28,1	1700	410
1031900542	1031703542	FG160M16AM16	0,6/1KV	2x25 mm ²	22	2,0	25,2	1260	360
1031900543	1031703543	FG160M16AM16	0,6/1KV	3x25 mm ²	22	2,0	27,1	1550	390
1031900544	1031703544	FG160M16AM16	0,6/1KV	4x25 mm ²	24,5	2,0	29,1	1940	420
1031900545	1031703545	FG160M16AM16	0,6/1KV	5x25 mm ²	27	2,0	32	2330	460
1031900546	1031703546	FG160M16AM16	0,6/1KV	3x35 mm ²	25	2,0	29,1	1980	420
1031900547	1031703547	FG160M16AM16	0,6/1KV	3½x35 mm ²	27	2,0	32	2500	460
1031900548	1031703548	FG160M16AM16	0,6/1KV	5x35 mm ²	34	2,0	38,8	3000	560
1031900549	1031703549	FG160M16AM16	0,6/1KV	3x50 mm ²	29	2,0	33	2620	480
1031900550	1031703550	FG160M16AM16	0,6/1KV	3½x50 mm ²	31	2,0	35,9	3320	520
1031900551	1031703551	FG160M16AM16	0,6/1KV	3x70 mm ²	33	2,0	36,9	3420	530
1031900552	1031703552	FG160M16AM16	0,6/1KV	3½x70 mm ²	36	2,0	40,6	4360	590
1031900553	1031703553	FG160M16AM16	0,6/1KV	3x95 mm ²	36	2,0	40,7	4400	590
1031900554	1031703554	FG160M16AM16	0,6/1KV	3½x95 mm ²	41	2,0	44,6	5630	650
1031900555	1031703555	FG160M16AM16	0,6/1KV	3x120 mm ²	42	2,0	45,6	5340	660
1031900556	1031703556	FG160M16AM16	0,6/1KV	3½x120 mm ²	44	2,0	48,5	6870	700
1031900557	1031703557	FG160M16AM16	0,6/1KV	5 G 50 mm ²	35	2,0	38,8	3880	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.