

Control and Power Cable – 105-1 CPR EU 305/2011

CU, G16 INSULATION, OVERALL SCREEN, M16 INNER SHEATH, STEEL WIRE BRAID ARMOUR, M16 OUTER SHEATH.

IEC 60332.1 IEC 60332.3 - HALOGEN FREE

Technical Specifications n° 105-1/23 of 10/11/2023 Rev. 0

Type: FG16OHM16AM16 0,6/1Kv
Conductor: Flexible copper conductor according to IEC60228 cl.5
Insulation: EPR G16 type extruded compound
 Temperature range -30 +90° C
 Temperature laying 0 +70° C

SIZE	THICKNESS
1,5 mm ²	0,70 ± 0,02 mm
2,5 mm ²	0,70 ± 0,02 mm
4 mm ²	0,70 ± 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

Laying up: Twisted to cores UNEL color (or to be agreed)

Overall screen: Applied over total assembly will be wrapped with polyester tape and shielded with Aluminium/Mylar tape 100% coverage and 25% overlap with metal side in contact with a tinned copper drain wire 7x0,30 size 0,5sqmm.

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 – FG16OHM16AM16 0,6/1 KV Siz. IEC 60332.3 WWW/YY (Batch/Num.) Cca s1b-d1-a1 0001mt"

Performance:

- Test voltage core to core 3,5KV
- Flame retardant according to IEC60332-3-22, CEI20-22/2
- Low smoke and Halogen free as per IEC60754-2, CEI20-37/2
- Low smoke density emiss. IEC61034 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

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
1051900501	1051703501	FG160HM16AM16 0,6/1KV 4x1,5 mm ²	9,3	1,8	14,5	360	205
1051900502	1051703502	FG160HM16AM16 0,6/1KV 5x1,5 mm ²	10,1	1,8	15,3	400	220
1051900503	1051703503	FG160HM16AM16 0,6/1KV 6x1,5 mm ²	10,8	1,8	16,2	450	230
1051900504	1051703504	FG160HM16AM16 0,6/1KV 7x1,5 mm ²	11,2	1,8	16,1	460	230
1051900505	1051703505	FG160HM16AM16 0,6/1KV 10x1,5 mm ²	13,6	1,8	18,6	600	260
1051900506	1051703506	FG160HM16AM16 0,6/1KV 12x1,5 mm ²	14,6	1,8	19,8	710	280
1051900507	1051703507	FG160HM16AM16 0,6/1KV 16x1,5 mm ²	15,8	1,8	21,1	840	300
1051900508	1051703508	FG160HM16AM16 0,6/1KV 20x1,5 mm ²	17,6	2,0	24,8	990	330
1051900509	1051703509	FG160HM16AM16 0,6/1KV 24x1,5 mm ²	20	2,0	27,2	1140	360
1051900510	1051703510	FG160HM16AM16 0,6/1KV 4x2,5 mm ²	10,3	1,8	15,3	430	220
1051900511	1051703511	FG160HM16AM16 0,6/1KV 5x2,5 mm ²	11,4	1,8	16,5	490	230
1051900512	1051703512	FG160HM16AM16 0,6/1KV 6x2,5 mm ²	12,2	1,8	17	540	240
1051900513	1051703513	FG160HM16AM16 0,6/1KV 7x2,5 mm ²	12,4	1,8	17,5	590	210
1051900514	1051703514	FG160HM16AM16 0,6/1KV 10x2,5 mm ²	15,6	1,8	21	800	290
1051900515	1051703515	FG160HM16AM16 0,6/1KV 12x2,5 mm ²	16,5	2,0	21,6	910	300
1051900516	1051703516	FG160HM16AM16 0,6/1KV 16x2,5 mm ²	18	2,0	23,3	1000	330
1051900517	1051703517	FG160HM16AM16 0,6/1KV 24x2,5 mm ²	22,8	2,0	28,6	1530	390
1051900518	1051703518	FG160HM16AM16 0,6/1KV 2x4 mm ²	10	1,8	15,1	380	210
1051900519	1051703519	FG160HM16AM16 0,6/1KV 3x4 mm ²	10,5	1,8	15,2	450	220
1051900520	1051703520	FG160HM16AM16 0,6/1KV 4x4 mm ²	11,6	1,8	16,5	530	230
1051900521	1051703521	FG160HM16AM16 0,6/1KV 5x4 mm ²	12,8	1,8	17,8	610	250
1051900522	1051703522	FG160HM16AM16 0,6/1KV 7x4 mm ²	14	2,0	19,4	780	280
1051900523	1051703523	FG160HM16AM16 0,6/1KV 2x6 mm ²	11,4	1,8	16,5	470	230
1051900524	1051703524	FG160HM16AM16 0,6/1KV 3x6 mm ²	12	1,8	17,2	560	230
1051900525	1051703525	FG160HM16AM16 0,6/1KV 4x6 mm ²	14,8	1,8	18,6	710	270
1051900526	1051703526	FG160HM16AM16 0,6/1KV 5x6 mm ²	17	2,0	20,4	810	290
1051900527	1051703527	FG160HM16AM16 0,6/1KV 2x10 mm ²	17,5	2,0	21,3	700	310
1051900528	1051703528	FG160HM16AM16 0,6/1KV 3x10 mm ²	17,8	2,0	21,3	870	310
1051900529	1051703529	FG160HM16AM16 0,6/1KV 2x16 mm ²	19	2,0	23,3	910	340
1051900530	1051703530	FG160HM16AM16 0,6/1KV 3x16 mm ²	19,6	2,0	24	1160	350
1051900531	1051703531	FG160HM16AM16 0,6/1Kv 2x25 mm ²	20,2	2,0	24,3	1200	350
1051900532	1051703532	FG160HM16AM16 0,6/1Kv 3x25 mm ²	21	2,0	25,7	1570	370

Weight and diameter: Are theoretical + / - 10%

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