

Control and Power Cable – 105-2 CPR EU 305/2011

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

Technical Specifications n° 105-2/23 of 10/11/2023 Rev. 0

Type: FG16OHM16FM16 0,6/1 KV
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 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 – FG16OHM16FM16 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	FG160HM16FM16 0,6/1Kv 4x1,5 mm ²	9,3	1,8	14,9	368	205
1052900502	1052703502	FG160HM16FM16 0,6/1Kv 5x1,5 mm ²	10,1	1,8	15,8	410	220
1052900503	1052703503	FG160HM16FM16 0,6/1Kv 6x1,5 mm ²	10,8	1,8	16,7	440	230
1052900504	1052703504	FG160HM16FM16 0,6/1Kv 7x1,5 mm ²	11,2	1,8	16,6	480	230
1052900505	1052703505	FG160HM16FM16 0,6/1Kv 10x1,5 mm ²	13,6	1,8	19,2	620	260
1052900506	1052703506	FG160HM16FM16 0,6/1Kv 12x1,5 mm ²	14,6	1,8	20,4	730	280
1052900507	1052703507	FG160HM16FM16 0,6/1Kv 16x1,5 mm ²	15,8	1,8	21,8	870	300
1052900508	1052703508	FG160HM16FM16 0,6/1Kv 20x1,5 mm ²	17,6	2,0	25,6	1020	330
1052900509	1052703509	FG160HM16FM16 0,6/1Kv 24x1,5 mm ²	20	2,0	28	1180	360
1052900510	1052703510	FG160HM16FM16 0,6/1Kv 4x2,5 mm ²	10,3	1,8	15,8	440	220
1052900511	1052703511	FG160HM16FM16 0,6/1Kv 5x2,5 mm ²	11,4	1,8	17	510	230
1052900512	1052703512	FG160HM16FM16 0,6/1Kv 6x2,5 mm ²	12,2	1,8	17,6	560	240
1052900513	1052703513	FG160HM16FM16 0,6/1Kv 7x2,5 mm ²	12,4	1,8	18	610	210
1052900514	1052703514	FG160HM16FM16 0,6/1Kv 10x2,5 mm ²	15,6	1,8	21,6	830	290
1052900515	1052703515	FG160HM16FM16 0,6/1Kv 12x2,5 mm ²	16,5	2,0	22,3	940	300
1052900516	1052703516	FG160HM16FM16 0,6/1Kv 16x2,5 mm ²	18	2,0	24	1140	330
1052900517	1052703517	FG160HM16FM16 0,6/1Kv 24x2,5 mm ²	22,8	2,0	29,5	1580	390
1052900518	1052703518	FG160HM16FM16 0,6/1Kv 2x4 mm ²	10	1,8	15,6	390	210
1052900519	1052703519	FG160HM16FM16 0,6/1Kv 3x4 mm ²	10,5	1,8	16	470	220
1052900520	1052703520	FG160HM16FM16 0,6/1Kv 4x4 mm ²	11,6	1,8	17,2	550	230
1052900521	1052703521	FG160HM16FM16 0,6/1Kv 5x4 mm ²	12,8	1,8	18,3	630	250
1052900522	1052703522	FG160HM16FM16 0,6/1Kv 7x4 mm ²	14	2,0	20	810	280
1052900523	1052703523	FG160HM16FM16 0,6/1Kv 2x6 mm ²	11,4	1,8	17	480	230
1052900524	1052703524	FG160HM16FM16 0,6/1Kv 3x6 mm ²	12	1,8	17,7	580	230
1052900525	1052703525	FG160HM16FM16 0,6/1Kv 4x6 mm ²	14,8	1,8	19,2	730	270
1052900526	1052703526	FG160HM16FM16 0,6/1Kv 5x6 mm ²	17	2,0	21	840	290
1052900527	1052703527	FG160HM16FM16 0,6/1Kv 2x10 mm ²	17,5	2,0	22	720	310
1052900528	1052703528	FG160HM16FM16 0,6/1Kv 3x10 mm ²	17,8	2,0	22	900	310
1052900529	1052703529	FG160HM16FM16 0,6/1Kv 2x16 mm ²	19	2,0	24	940	340
1052900530	1052703530	FG160HM16FM16 0,6/1Kv 3x16 mm ²	19,6	2,0	24,8	1200	350
1052900531	1052703531	FG160HM16FM16 0,6/1Kv 2x25 mm ²	20,2	2,0	25	1240	350
1052900532	1052703532	FG160HM16FM16 0,6/1Kv 3x25 mm ²	21	2,0	26,5	1620	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.