

Control and Power Cable - 105

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° 105/18 of 12/01/2018 Rev. 0

Type:	F-Cu/G16/OS/M16/SWA/M16 0,6/1Kv FG16OHM16FM16 0,6/1 KV
Conductor:	Flexible plain copper conductor according to IEC60228 cl.5 or cl.5
Insulation:	EPR G16 type extruded compound
	Temperature range -15 +90° C Temperature laying -5 +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

Laying up:	Twisted to pair, Blue - Black numbered (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 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 – FG16OHM16FM16 0,6/1 KV Siz. IEC 60332.3 WWW/YY (Batch/Num.) Cca s1b-d1-a1 0001mt"
Performance:	<ul style="list-style-type: none"> - 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 - Cable for intrinsically safe application - Inductance <math>\leq 0,90\text{mH/Km}</math> - Capacitance <math>= 0,200\text{microF/Km}</math> - This cable is suitable to be used in ATEX area following the EN60079-14 prescription - EN50575 tested for approval

ITEM	THICK. INNER SHEATH MM	Ø OVER INNER SHEATH MM	THICK. OUTER SHEATH MM	OVERAL DIAMETER MM	WEIGHT KG/KM	BENDING RADIUS MM		
FG160HM16FM16	0,6/1Kv	4x1,5 mm ²	1,0	9,3	1,8	14,9	368	205
FG160HM16FM16	0,6/1Kv	5x1,5 mm ²	1,0	10,1	1,8	15,8	410	220
FG160HM16FM16	0,6/1Kv	6x1,5 mm ²	1,0	10,8	1,8	16,7	440	230
FG160HM16FM16	0,6/1Kv	7x1,5 mm ²	1,0	11,2	1,8	16,6	480	230
FG160HM16FM16	0,6/1Kv	10x1,5 mm ²	1,0	13,6	1,8	19,2	620	260
FG160HM16FM16	0,6/1Kv	12x1,5 mm ²	1,0	14,6	1,8	20,4	730	280
FG160HM16FM16	0,6/1Kv	16x1,5 mm ²	1,0	15,8	1,8	21,8	870	300
FG160HM16FM16	0,6/1Kv	20x1,5 mm ²	1,0	17,6	2,0	23,6	1020	330
FG160HM16FM16	0,6/1Kv	24x1,5 mm ²	1,0	20	2,0	26	1180	360
FG160HM16FM16	0,6/1Kv	48x1,5 mm ²	1,0	26,5	2,0	32,2	1950	440
FG160HM16FM16	0,6/1Kv	4x2,5 mm ²	1,0	10,3	1,8	15,8	440	220
FG160HM16FM16	0,6/1Kv	5x2,5 mm ²	1,0	11,4	1,8	17	510	230
FG160HM16FM16	0,6/1Kv	6x2,5 mm ²	1,0	12,2	1,8	17,6	560	240
FG160HM16FM16	0,6/1Kv	7x2,5 mm ²	1,0	12,4	1,8	18	610	210
FG160HM16FM16	0,6/1Kv	10x2,5 mm ²	1,0	15,6	1,8	21,6	830	290
FG160HM16FM16	0,6/1Kv	12x2,5 mm ²	1,0	16,5	2,0	22,3	940	300
FG160HM16FM16	0,6/1Kv	16x2,5 mm ²	1,0	18	2,0	24	1140	330
FG160HM16FM16	0,6/1Kv	24x2,5 mm ²	1,0	22,8	2,0	28,6	1580	390
FG160HM16FM16	0,6/1Kv	48x2,5 mm ²	1,2	30	2,0	35,8	2730	500
FG160HM16FM16	0,6/1Kv	2x4 mm ²	1,0	10	1,8	15,6	390	210
FG160HM16FM16	0,6/1Kv	3x4 mm ²	1,0	10,5	1,8	16	470	220
FG160HM16FM16	0,6/1Kv	4x4 mm ²	1,0	11,6	1,8	17,2	550	230
FG160HM16FM16	0,6/1Kv	5x4 mm ²	1,0	12,8	1,8	18,3	630	250
FG160HM16FM16	0,6/1Kv	7x4 mm ²	1,0	14	2,0	20	810	280
FG160HM16FM16	0,6/1Kv	2x6 mm ²	1,0	11,4	1,8	17	480	230
FG160HM16FM16	0,6/1Kv	3x6 mm ²	1,0	12	1,8	17,7	580	230

Weight and diameter: Are theoretical + / - 10%

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