

## 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° 105/22 of 21/01/2022 Rev. 0

<b>Type:</b>	FG16OHM16AM16 0,6/1Kv FG16OHM16FM16 0,6/1 KV
<b>Conductor:</b>	Flexible copper conductor according to IEC60228 cl.5
<b>Insulation:</b>	EPR G16 type extruded compound
	Temperature range -30 +90° C Temperature laying 0 +70° C

SIZE	THICKNESS
1,5 mm <sup>2</sup>	0,70 ± 0,02 mm
2,5 mm <sup>2</sup>	0,70 ± 0,02 mm
4 mm <sup>2</sup>	0,70 ± 0,02 mm
6 mm <sup>2</sup>	0,70 ± 0,02 mm
10 mm <sup>2</sup>	0,70 ± 0,02 mm
16 mm <sup>2</sup>	0,70 ± 0,02 mm
25 mm <sup>2</sup>	0,90 ± 0,02 mm

<b>Laying up:</b>	Twisted to cores UNEL color (or to be agreed)
<b>Overall screen:</b>	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.
<b>Inner sheath:</b>	M16 LSZH extruded compound
<b>Armour:</b>	Galvanized steel round wires plus wrapping polyester tape (SWA) or Galvanized steel wires braid (SWB)
<b>Outer sheath:</b>	M16 LSZH extruded compound Colour: Grey/Black (or to be agreed)
<b>Marking:</b>	On the outer sheath "Sensitherm – FG16OHM16FM16 0,6/1 KV Siz. IEC 60332.3 WWW/YY (Batch/Num.) Cca s1b-d1-a1 0001mt"
<b>Performance:</b>	<ul style="list-style-type: none"> <li>- Test voltage core to core 3,5KV</li> <li>- Flame retardant according to IEC60332-3-22, CEI20-22/2</li> <li>- Low smoke and Halogen free as per IEC60754-2, CEI20-37/2</li> <li>- Low smoke density emiss. IEC61034 1/2</li> <li>- Hydrocarbon and UV resistant</li> <li>- Rodent resistant</li> <li>- Fit for direct burial</li> <li>- This cable is suitable to be used in ATEX area following the EN60079-14 prescription (excluding annex E)</li> <li>- EN50575 tested for approval</li> </ul>

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 <sup>2</sup>	1,0	9,3	1,8	14,9	368	205
FG160HM16FM16 0,6/1Kv 5x1,5 mm <sup>2</sup>	1,0	10,1	1,8	15,8	410	220
FG160HM16FM16 0,6/1Kv 6x1,5 mm <sup>2</sup>	1,0	10,8	1,8	16,7	440	230
FG160HM16FM16 0,6/1Kv 7x1,5 mm <sup>2</sup>	1,0	11,2	1,8	16,6	480	230
FG160HM16FM16 0,6/1Kv 10x1,5 mm <sup>2</sup>	1,0	13,6	1,8	19,2	620	260
FG160HM16FM16 0,6/1Kv 12x1,5 mm <sup>2</sup>	1,0	14,6	1,8	20,4	730	280
FG160HM16FM16 0,6/1Kv 16x1,5 mm <sup>2</sup>	1,0	15,8	1,8	21,8	870	300
FG160HM16FM16 0,6/1Kv 20x1,5 mm <sup>2</sup>	1,0	17,6	2,0	25,6	1020	330
FG160HM16FM16 0,6/1Kv 24x1,5 mm <sup>2</sup>	1,0	20	2,0	28	1180	360
FG160HM16FM16 0,6/1Kv 4x2,5 mm <sup>2</sup>	1,0	10,3	1,8	15,8	440	220
FG160HM16FM16 0,6/1Kv 5x2,5 mm <sup>2</sup>	1,0	11,4	1,8	17	510	230
FG160HM16FM16 0,6/1Kv 6x2,5 mm <sup>2</sup>	1,0	12,2	1,8	17,6	560	240
FG160HM16FM16 0,6/1Kv 7x2,5 mm <sup>2</sup>	1,0	12,4	1,8	18	610	210
FG160HM16FM16 0,6/1Kv 10x2,5 mm <sup>2</sup>	1,0	15,6	1,8	21,6	830	290
FG160HM16FM16 0,6/1Kv 12x2,5 mm <sup>2</sup>	1,0	16,5	2,0	22,3	940	300
FG160HM16FM16 0,6/1Kv 16x2,5 mm <sup>2</sup>	1,0	18	2,0	24	1140	330
FG160HM16FM16 0,6/1Kv 24x2,5 mm <sup>2</sup>	1,0	22,8	2,0	29,5	1580	390
FG160HM16FM16 0,6/1Kv 2x4 mm <sup>2</sup>	1,0	10	1,8	15,6	390	210
FG160HM16FM16 0,6/1Kv 3x4 mm <sup>2</sup>	1,0	10,5	1,8	16	470	220
FG160HM16FM16 0,6/1Kv 4x4 mm <sup>2</sup>	1,0	11,6	1,8	17,2	550	230
FG160HM16FM16 0,6/1Kv 5x4 mm <sup>2</sup>	1,0	12,8	1,8	18,3	630	250
FG160HM16FM16 0,6/1Kv 7x4 mm <sup>2</sup>	1,0	14	2,0	20	810	280
FG160HM16FM16 0,6/1Kv 2x6 mm <sup>2</sup>	1,0	11,4	1,8	17	480	230
FG160HM16FM16 0,6/1Kv 3x6 mm <sup>2</sup>	1,0	12	1,8	17,7	580	230
FG160HM16FM16 0,6/1Kv 4x6 mm <sup>2</sup>	1,0	14,8	1,8	19,2	730	270
FG160HM16FM16 0,6/1Kv 5x6 mm <sup>2</sup>	1,0	17	2,0	21	840	290
FG160HM16FM16 0,6/1Kv 2x10 mm <sup>2</sup>	1,0	17,5	2,0	22	720	310
FG160HM16FM16 0,6/1Kv 3x10 mm <sup>2</sup>	1,0	17,8	2,0	22	900	310
FG160HM16FM16 0,6/1Kv 2x16 mm <sup>2</sup>	1,0	19	2,0	24	940	340
FG160HM16FM16 0,6/1Kv 3x16 mm <sup>2</sup>	1,0	19,6	2,0	24,8	1200	350
FG160HM16FM16 0,6/1Kv 2x25 mm <sup>2</sup>	1,0	20,2	2,0	25	1240	350
FG160HM16FM16 0,6/1Kv 3x25 mm <sup>2</sup>	1,0	21	2,0	26,5	1620	370

**Weight and diameter:**

Are theoretical + / - 10%