

# Instrumentation Cable - 101

# CPR EU 305/2011

**Conductor, G16 INSULATION, INDIVIDUAL (IF REQUIRED) AND OVERALL SCREEN, M16 OUTER SHEATH.  
IEC 60332.1 IEC 60332.3 – HALOGEN FREE**

## Technical Specifications n° 101/18 24/05/2023 Rev. 2

**Type:** FG16XHOHM16 0,6/1 KV - FG16XOHM16 0,6/1KV - FG16OHM16 0,6/1Kv

**Conductor:** Flexible metal conductor according to IEC60228

**Insulation:** EPR G16 type extruded compound

Temperature range -30 +90° C

Temperature laying 0 +70° C

SIZE	THICKNESS
0,75 mm <sup>2</sup>	0,70 ± 0,02 mm
1,0 mm <sup>2</sup>	0,70 ± 0,02 mm
1,5 mm <sup>2</sup>	0,70 ± 0,02 mm
2,5 mm <sup>2</sup>	0,70 ± 0,02 mm

**Laying up:** Twisted to pair, Blue - Black numbered (or to be agreed)

**Pair screen:  
(if necessary)** Applied over the single pair/triad 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 mm size 0,5sqmm, over the screen will be placed a further Mylar tape.

**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.

**Outer sheath:** M16 LSZH extruded compound  
Colour: Blue/Black (or to be agreed)

**Marking:** On the outer sheath "Sensitherm – FG16XHOHM16 0,6/1 KV Siz. IEC 60332.3  
WWW/YY (Batch/Num.) Cca s1b-d1-a1 0001 m"

**Performance:**

- Test voltage core to core 3,5 KV
- Flame retardant according to IEC 60332-3-24, CEI 20-22/3
- 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
- Cable for intrinsically safe application
- Inductance < /= 0,90 mH/Km
- Capacitance /= 0,200 µF/Km
- This cable is suitable to be used in ATEX area following the EN60079-14 prescription (excluding annex E)
- EN50575 tested for approval
- CPR approved Cca s1b,d1,a1

ITEM			THICKNESS OUTER SHEATH MM	OVERAL DIAMETER MM	WEIGHT KG/KM	BENDING RADIUS MM
FG16OHM16	0,6/1KV	1x2x0,75 mm <sup>2</sup>	1,8	8,8	110	88
FG16XHOHM16	0,6/1KV	2x2x0,75 mm <sup>2</sup>	1,8	12,9	200	129
FG16XHOHM16	0,6/1KV	3x2x0,75 mm <sup>2</sup>	1,8	13,6	250	136
FG16XHOHM16	0,6/1KV	4x2x0,75 mm <sup>2</sup>	1,8	14,7	300	147
FG16XHOHM16	0,6/1KV	5x2x0,75 mm <sup>2</sup>	1,8	16,1	360	161
FG16XHOHM16	0,6/1KV	6x2x0,75 mm <sup>2</sup>	1,8	17,4	400	174
FG16XHOHM16	0,6/1KV	7x2x0,75 mm <sup>2</sup>	1,8	17,6	450	176
FG16XHOHM16	0,6/1KV	12x2x0,75 mm <sup>2</sup>	2,0	23	700	230
FG16XHOHM16	0,6/1KV	16x2x0,75 mm <sup>2</sup>	2,0	25,6	910	256
FG16XHOHM16	0,6/1KV	24x2x0,75 mm <sup>2</sup>	2,0	30	1250	300
FG16OHM16	0,6/1KV	1x2x1 mm <sup>2</sup>	1,8	9	120	90
FG16XHOHM16	0,6/1KV	2x2x1 mm <sup>2</sup>	1,8	13,5	220	135
FG16XHOHM16	0,6/1KV	3x2x1 mm <sup>2</sup>	1,8	14	270	140
FG16XHOHM16	0,6/1KV	4x2x1 mm <sup>2</sup>	1,8	15,5	330	155
FG16XHOHM16	0,6/1KV	5x2x1 mm <sup>2</sup>	1,8	16,8	400	168
FG16XHOHM16	0,6/1KV	6x2x1 mm <sup>2</sup>	1,8	18,4	250	184
FG16XHOHM16	0,6/1KV	7x2x1 mm <sup>2</sup>	1,8	18,6	500	186
FG16XHOHM16	0,6/1KV	12x2x1 mm <sup>2</sup>	2,0	24	800	240
FG16XHOHM16	0,6/1KV	16x2x1 mm <sup>2</sup>	2,0	27	1030	270
FG16XHOHM16	0,6/1KV	24x2x1 mm <sup>2</sup>	2,0	32,5	1420	325
FG16OHM16	0,6/1KV	1x2x1,5 mm <sup>2</sup>	1,8	9,5	130	95
FG16XHOHM16	0,6/1KV	2x2x1,5 mm <sup>2</sup>	1,8	14,4	250	144
FG16XHOHM16	0,6/1KV	3x2x1,5 mm <sup>2</sup>	1,8	15	320	150
FG16XHOHM16	0,6/1KV	4x2x1,5 mm <sup>2</sup>	1,8	16,5	390	165
FG16XHOHM16	0,6/1KV	5x2x1,5 mm <sup>2</sup>	1,8	18	470	180
FG16XHOHM16	0,6/1KV	6x2x1,5 mm <sup>2</sup>	1,8	19,6	530	196
FG16XHOHM16	0,6/1KV	7x2x1,5 mm <sup>2</sup>	1,8	19,8	600	198
FG16XHOHM16	0,6/1KV	12x2x1,5 mm <sup>2</sup>	2,0	26	950	260
FG16XHOHM16	0,6/1KV	16x2x1,5 mm <sup>2</sup>	2,0	29	1240	290
FG16XHOHM16	0,6/1KV	24x2x1,5 mm <sup>2</sup>	2,0	35	1720	350
FG16XHM16	0,6/1KV	1x2x2,5 mm <sup>2</sup>	1,8	10,6	170	106
FG16XHOHM16	0,6/1KV	2x2x2,5 mm <sup>2</sup>	1,8	16	320	160
FG16XHOHM16	0,6/1KV	3x2x2,5 mm <sup>2</sup>	1,8	16,8	400	168

FG16XHOHM16	0,6/1KV	4x2x2,5 mm <sup>2</sup>	1,8	18,4	500	184
FG16XHOHM16	0,6/1KV	5x2x2,5 mm <sup>2</sup>	1,8	20,6	630	206
FG16XHOHM16	0,6/1KV	6x2x2,5 mm <sup>2</sup>	2,0	23	720	230
FG16XHOHM16	0,6/1KV	7x2x2,5 mm <sup>2</sup>	2,0	23,4	810	234
FG16XHOHM16	0,6/1KV	12x2x2,5 mm <sup>2</sup>	2,0	29	1260	290
FG16XHOHM16	0,6/1KV	16x2x2,5 mm <sup>2</sup>	2,0	32,6	1650	326
FG16XHOHM16	0,6/1KV	24x2x2,5 mm <sup>2</sup>	2,0	40	2300	400
FG16OHM16	0,6/1KV	1x3x0,75 mm <sup>2</sup>	1,8	9	130	90
FG16XHOHM16	0,6/1KV	2x3x0,75 mm <sup>2</sup>	1,8	15	250	150
FG16XHOHM16	0,6/1KV	3x3x0,75 mm <sup>2</sup>	1,8	15,8	310	158
FG16XHOHM16	0,6/1KV	4x3x0,75 mm <sup>2</sup>	1,8	17,3	380	173
FG16XHOHM16	0,6/1KV	5x3x0,75 mm <sup>2</sup>	1,8	18,9	460	189
FG16XHOHM16	0,6/1KV	6x3x0,75 mm <sup>2</sup>	1,8	21	520	210
FG16XHOHM16	0,6/1KV	7x3x0,75 mm <sup>2</sup>	1,8	21,6	590	216
FG16XHOHM16	0,6/1KV	12x3x0,75 mm <sup>2</sup>	2,0	27	930	270
FG16XHOHM16	0,6/1KV	16x3x0,75 mm <sup>2</sup>	2,0	30,2	1210	302
FG16XHOHM16	0,6/1KV	24x3x0,75 mm <sup>2</sup>	2,0	35	1660	350
FG16OHM16	0,6/1KV	1x3x1 mm <sup>2</sup>	1,8	9,6	140	96
FG16XHOHM16	0,6/1KV	2x3x1 mm <sup>2</sup>	1,8	14,8	280	148
FG16XHOHM16	0,6/1KV	3x3x1 mm <sup>2</sup>	1,8	15,3	350	153
FG16XHOHM16	0,6/1KV	4x3x1 mm <sup>2</sup>	1,8	17	430	170
FG16XHOHM16	0,6/1KV	5x3x1 mm <sup>2</sup>	1,8	20	520	200
FG16XHOHM16	0,6/1KV	6x3x1 mm <sup>2</sup>	1,8	21,8	590	218
FG16XHOHM16	0,6/1KV	7x3x1 mm <sup>2</sup>	1,8	22	670	220
FG16XHOHM16	0,6/1KV	12x3x1 mm <sup>2</sup>	2,0	29	1030	290
FG16XHOHM16	0,6/1KV	16x3x1 mm <sup>2</sup>	2,0	32,4	1380	324
FG16XHOHM16	0,6/1KV	24x3x1 mm <sup>2</sup>	2,0	38	1860	380
FG16XHOHM16	0,6/1KV	27x3x1 mm <sup>2</sup>	2,0	42	2040	430
FG16OHM16	0,6/1KV	1x3x1,5 mm <sup>2</sup>	1,8	10	160	100
FG16XHOHM16	0,6/1KV	2x3x1,5 mm <sup>2</sup>	1,8	16,8	330	168
FG16XHOHM16	0,6/1KV	3x3x1,5 mm <sup>2</sup>	1,8	17,8	420	178
FG16XHOHM16	0,6/1KV	4x3x1,5 mm <sup>2</sup>	1,8	19,5	510	195
FG16XHOHM16	0,6/1KV	5x3x1,5 mm <sup>2</sup>	1,8	21,4	630	214
FG16XHOHM16	0,6/1KV	6x3x1,5 mm <sup>2</sup>	2,0	24	740	240
FG16XHOHM16	0,6/1KV	7x3x1,5 mm <sup>2</sup>	2,0	24,8	840	248

FG16XHOHM16	0,6/1KV	12x3x1,5 mm <sup>2</sup>	2,0	31	1290	310
FG16XHOHM16	0,6/1KV	16x3x1,5 mm <sup>2</sup>	2,0	34,8	1690	348
FG16XHOHM16	0,6/1KV	24x3x1,5 mm <sup>2</sup>	2,0	43	2360	430
FG16OHM16	0,6/1KV	1x3x2,5 mm <sup>2</sup>	1,8	11	210	110
FG16XHOHM16	0,6/1KV	2x3x2,5 mm <sup>2</sup>	1,8	19	420	190
FG16XHOHM16	0,6/1KV	3x3x2,5 mm <sup>2</sup>	1,8	20	540	200
FG16XHOHM16	0,6/1KV	4x3x2,5 mm <sup>2</sup>	1,8	22	670	220
FG16XHOHM16	0,6/1KV	6x3x2,5 mm <sup>2</sup>	2,0	27	980	270
FG16XHOHM16	0,6/1KV	12x3x2,5 mm <sup>2</sup>	2,0	35	1750	350

**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.