

# Thermocouple extension Cable - 109 CPR EU 305/2011

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

## Technical Specifications n° 109/20 of 30/09/2020 Rev. 0

<b>Type:</b>	F-Kx(Jx)/G16/IS/OS/M16 0,6/1KV - F-Kx(Jx)/G16/OS/M16 0,6/1KV Kx(Jx)FG16XHOHM16 0,6/1 KV – Kx(Jx)FG16XOHM16 0,6/1KV
<b>Conductor:</b>	Flexible Alloy conductor according to IEC60584 or ANSI MC96.1 or DIN43710 Thermocouple extension <b>type Jx</b> : JPX + Fe JNX - CuNi Thermocouple extension <b>type Kx</b> : KPX (T1) + NiCr KNX (T2) - Ni
<b>Insulation:</b>	EPR G16 type extruded compound  Temperature range -40 +90° C Temperature laying -5 +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

<b>Laying up:</b>	Twisted to pair numbered (or to be agreed)
<b>Pair screen: (if necessary)</b>	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.
<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>Outer sheath:</b>	M16 LSZH extruded compound
<b>Marking:</b>	On the outer sheath "Sensitherm – TC FG16XHOHM16 0,6/1 KV Siz. IEC 60332.3 WWW/YY (Batch/Num.) Cca s1b-d1-a1 0001 m"
<b>Performance:</b>	<ul style="list-style-type: none"> <li>- Test voltage core to core 3,5 KV</li> <li>- Flame retardant according to IEC 60332-3-24, CEI 20-22/3</li> <li>- Low smoke and Halogen free as per IEC 60754-2, CEI 20-37/2</li> <li>- Low smoke density emiss. IEC 61034 1/2</li> <li>- Hydrocarbon and UV resistant</li> <li>- This cable is suitable to be used in ATEX area following the EN60079-14 prescription</li> <li>- EN50575 tested for approval</li> </ul>

ITEM	THICKNESS OUTER SHEATH MM	OVERAL DIAMETER MM	WEIGHT KG/KM	BENDING RADIUS MM
TC FG16OHM16 0,6/1KV 1x2x0,75 mm <sup>2</sup>	1,8	8,8	110	70
TC FG16XHOHM16 0,6/1KV 2x2x0,75 mm <sup>2</sup>	1,8	12,9	200	100
TC FG16XHOHM16 0,6/1KV 3x2x0,75 mm <sup>2</sup>	1,8	13,6	250	110
TC FG16XHOHM16 0,6/1KV 4x2x0,75 mm <sup>2</sup>	1,8	14,7	300	120
TC FG16XHOHM16 0,6/1KV 5x2x0,75 mm <sup>2</sup>	1,8	16,1	360	130
TC FG16XHOHM16 0,6/1KV 6x2x0,75 mm <sup>2</sup>	1,8	17,4	400	130
TC FG16XHOHM16 0,6/1KV 7x2x0,75 mm <sup>2</sup>	1,8	17,6	450	140
TC FG16XHOHM16 0,6/1KV 12x2x0,75 mm <sup>2</sup>	2,0	23	700	180
TC FG16XHOHM16 0,6/1KV 16x2x0,75 mm <sup>2</sup>	2,0	25,6	910	200
TC FG16XHOHM16 0,6/1KV 24x2x0,75 mm <sup>2</sup>	2,0	30	1250	240
TC FG16OHM16 0,6/1KV 1x2x1 mm <sup>2</sup>	1,8	9	120	70
TC FG16XHOHM16 0,6/1KV 2x2x1 mm <sup>2</sup>	1,8	13,5	220	110
TC FG16XHOHM16 0,6/1KV 3x2x1 mm <sup>2</sup>	1,8	14	270	110
TC FG16XHOHM16 0,6/1KV 4x2x1 mm <sup>2</sup>	1,8	15,5	330	120
TC FG16XHOHM16 0,6/1KV 5x2x1 mm <sup>2</sup>	1,8	16,8	400	130
TC FG16XHOHM16 0,6/1KV 6x2x1 mm <sup>2</sup>	1,8	18,4	250	140
TC FG16XHOHM16 0,6/1KV 7x2x1 mm <sup>2</sup>	1,8	18,6	500	140
TC FG16XHOHM16 0,6/1KV 12x2x1 mm <sup>2</sup>	2,0	24	800	190
TC FG16XHOHM16 0,6/1KV 16x2x1 mm <sup>2</sup>	2,0	27	1030	210
TC FG16XHOHM16 0,6/1KV 24x2x1 mm <sup>2</sup>	2,0	32,5	1420	250
TC FG16OHM16 0,6/1KV 1x2x1,5 mm <sup>2</sup>	1,8	9,5	130	80
TC FG16XHOHM16 0,6/1KV 2x2x1,5 mm <sup>2</sup>	1,8	14,4	250	120
TC FG16XHOHM16 0,6/1KV 3x2x1,5 mm <sup>2</sup>	1,8	15	320	130
TC FG16XHOHM16 0,6/1KV 4x2x1,5 mm <sup>2</sup>	1,8	16,5	390	130
TC FG16XHOHM16 0,6/1KV 5x2x1,5 mm <sup>2</sup>	1,8	18	470	140
TC FG16XHOHM16 0,6/1KV 6x2x1,5 mm <sup>2</sup>	1,8	19,6	530	160
TC FG16XHOHM16 0,6/1KV 7x2x1,5 mm <sup>2</sup>	1,8	19,8	600	160
TC FG16XHOHM16 0,6/1KV 12x2x1,5 mm <sup>2</sup>	2,0	26	950	210
TC FG16XHOHM16 0,6/1KV 16x2x1,5 mm <sup>2</sup>	2,0	29	1240	230
TC FG16XHOHM16 0,6/1KV 24x2x1,5 mm <sup>2</sup>	2,0	35	1720	280

Weight and diameter are theoretical +/- 10%