

# Fire Resistant Instrumentation Cable – 112-2

B2ca s1a-d1-a1      CPR EU 305/2011      EN50200 PH120

**Conductor, MGT, G18 INSULATION, INDIVIDUAL (IF REQUIRED) AND OVERALL SCREEN, M16 OUTER SHEATH. EN50200 PH120, IEC 60332.1 IEC 60332.3 – HALOGEN FREE**

Technical Specifications n° 112-2/23    10/11/2023 Rev. 0

**Type:**                    FTG18XHOHM16 0,6/1KV - FTG18OHM16 0,6/1Kv

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

**Insulation:**            Mica glass tape plus FR-HEPR G18 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
4,0 mm <sup>2</sup>	0,70 ± 0,02 mm
6,0 mm <sup>2</sup>	0,70 ± 0,02 mm
10,0 mm <sup>2</sup>	0,70 ± 0,02 mm

- Laying up:** Twisted to pair, Blue - Black numbered (or to be agreed)
- Pair screen:** 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.  
**(if necessary)**
- 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: Red/Black (or to be agreed)
- Marking:** On the outer sheath "Sensitherm – FTG18XHOHM16 0,6/1 KV Siz. IEC 60332.3 EN50200 PH120 WWW/YY (Batch/Num.) B2ca s1a-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
  - Fire resistant EN50200 PH120
  - Cable for intrinsically safe application
  - Inductance <math>\leq 0,90 \text{ mH/Km}</math>
  - Capacitance <math>\leq 0,200 \text{ }\mu\text{F/Km}</math>
  - This cable is suitable to be used in ATEX area following the EN60079-14 prescription (excluding annex E)

CODE OUTER SHEATH RED	CODE OUTER SHEATH BLACK	ITEM			THICKNESS OUTER SHEATH MM	OVERAL DIAMETER MM	WEIGHT KG/KM	BENDING RADIUS MM
1122300001	1122900501	FTG18OHM16	0,6/1KV	1x2x1,5 mm <sup>2</sup>	1,8	10,5	150	168
1122300002	1122900502	FTG18OHM16	0,6/1KV	1x2x2,5 mm <sup>2</sup>	1,8	10,8	180	172
1122300003	1122900503	FTG18OHM16	0,6/1KV	1x2x4 mm <sup>2</sup>	1,8	12,2	230	195
1122300004	1122900504	FTG18OHM16	0,6/1KV	1x2x6 mm <sup>2</sup>	2,0	14,6	320	234
1122300005	1122900505	FTG18OHM16	0,6/1KV	1x2x10 mm <sup>2</sup>	2,0	16	440	256
1122300006	1122900506	FTG18OHM16	0,6/1KV	1x3x1,5 mm <sup>2</sup>	1,8	10,8	180	172
1122300007	1122900507	FTG18OHM16	0,6/1KV	1x3x2,5 mm <sup>2</sup>	1,8	11,8	230	188
1122300008	1122900508	FTG18OHM16	0,6/1KV	1x3x4 mm <sup>2</sup>	1,8	13,8	320	221
1122300009	1122900509	FTG18OHM16	0,6/1KV	1x3x6 mm <sup>2</sup>	2,0	15,5	410	248
1122300010	1122900510	FTG18OHM16	0,6/1KV	1x3x10 mm <sup>2</sup>	2,0	19	590	304
1122300011	1122900511	FTG18XHOHM16	0,6/1KV	2x2x0,75 mm <sup>2</sup>	1,8	14,6	250	256
1122300012	1122900512	FTG18XHOHM16	0,6/1KV	2x2x1,5 mm <sup>2</sup>	1,8	16	310	284
1122300013	1122900513	FTG18XHOHM16	0,6/1KV	2x2x2,5 mm <sup>2</sup>	1,8	17,8	360	344
1122300014	1122900514	FTG18XHOHM16	0,6/1KV	2x3x1,5 mm <sup>2</sup>	1,8	19,6	420	313
1122300015	1122900515	FTG18XHOHM16	0,6/1KV	2x3x2,5 mm <sup>2</sup>	2,0	21,8	520	348
1122300016	1122900516	FTG18XHOHM16	0,6/1KV	6x2x1 mm <sup>2</sup>	1,8	21,5	550	344
1122300017	1122900517	FTG18XHOHM16	0,6/1KV	6x2x1,5 mm <sup>2</sup>	2,0	22,5	650	360
1122300018	1122900518	FTG18XHOHM16	0,6/1KV	6x2x2,5 mm <sup>2</sup>	2,0	25,4	860	406
1122300019	1122900519	FTG18XHOHM16	0,6/1KV	6x3x1 mm <sup>2</sup>	2,0	26	780	416
1122300020	1122900520	FTG18XHOHM16	0,6/1KV	6x3x1,5 mm <sup>2</sup>	2,0	27,6	910	440
1122300021	1122900521	FTG18XHOHM16	0,6/1KV	6x3x2,5 mm <sup>2</sup>	2,0	30,4	1170	486
1122300022	1122900522	FTG18XHOHM16	0,6/1KV	12x2x1 mm <sup>2</sup>	2,0	27,8	1010	448
1122300023	1122900523	FTG18XHOHM16	0,6/1KV	12x2x1,5 mm <sup>2</sup>	2,0	28,8	1180	486
1122300024	1122900524	FTG18XHOHM16	0,6/1KV	12x2x2,5 mm <sup>2</sup>	2,0	33,7	1510	540
1122300025	1122900525	FTG18XHOHM16	0,6/1KV	12x3x1,5 mm <sup>2</sup>	2,0	38	1610	608
1122300026	1122900526	FTG18OHM16	0,6/1KV	1x4x1,5 mm <sup>2</sup>	1,8	11,6	220	180
1122300027	1122900527	FTG18OHM16	0,6/1KV	1x4x2,5 mm <sup>2</sup>	1,8	12,8	280	200
1122300028	1122900528	FTG18OHM16	0,6/1KV	1x4x4 mm <sup>2</sup>	1,8	14,2	360	230
1122300029	1122900529	FTG18OHM16	0,6/1KV	1x4x6 mm <sup>2</sup>	2,0	16,2	470	260
1122300030	1122900530	FTG18XHOHM16	0,6/1KV	2x2x1 mm <sup>2</sup>	1,8	14,8	270	240

**Weight and diameter:** Are theoretical + / - 10%