

Fire Resistant Instrumentation Cable – 112-1

B2ca s1a-d1-a1

CPR EU 305/2011

**Conductor, MGT, G18 INSULATION, OVERALL SCREEN, M16 OUTER SHEATH.
EN50200, IEC 60332.1 IEC 60332.3 – HALOGEN FREE**

Technical Specifications n° 112-1/23 10/11/2023 Rev. 0

Type: FTG18XOHM16 0,6/1 KV - 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 ²	0,70 ± 0,02 mm
1,0 mm ²	0,70 ± 0,02 mm
1,5 mm ²	0,70 ± 0,02 mm
2,5 mm ²	0,70 ± 0,02 mm
4,0 mm ²	0,70 ± 0,02 mm
6,0 mm ²	0,70 ± 0,02 mm
10,0 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.

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

Marking: On the outer sheath "Sensitherm – FTG18XOHM16 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, IEC60331-1 D.> 20mm
- 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)

CODE OUTER SHEATH RED	CODE OUTER SHEATH BLACK	ITEM	THICKNESS OUTER SHEATH MM	OVERAL DIAMETER MM	WEIGHT KG/KM	BENDING RADIUS MM
1121300001	1121900501	FTG18OHM16 0,6/1KV 1x2x1,5 mm ²	1,8	10,5	150	168
1121300002	1121900502	FTG18OHM16 0,6/1KV 1x2x2,5 mm ²	1,8	10,8	180	172
1121300003	1121900503	FTG18OHM16 0,6/1KV 1x2x4 mm ²	1,8	12,2	230	195
1121300004	1121900504	FTG18OHM16 0,6/1KV 1x2x6 mm ²	2,0	14,6	320	234
1121300005	1121900505	FTG18OHM16 0,6/1KV 1x2x10 mm ²	2,0	16	440	256
1121300006	1121900506	FTG18OHM16 0,6/1KV 1x3x1,5 mm ²	1,8	10,8	180	172
1121300007	1121900507	FTG18OHM16 0,6/1KV 1x3x2,5 mm ²	1,8	11,8	230	188
1121300008	1121900508	FTG18OHM16 0,6/1KV 1x3x4 mm ²	1,8	13,8	320	221
1121300009	1121900509	FTG18OHM16 0,6/1KV 1x3x6 mm ²	2,0	15,5	410	248
1121300010	1121900510	FTG18OHM16 0,6/1KV 1x3x10 mm ²	2,0	19	590	304
1121300011	1121900511	FTG18XOHM16 0,6/1KV 2x2x0,75 mm ²	1,8	13,9	240	256
1121300012	1121900512	FTG18XOHM16 0,6/1KV 2x2x1,5 mm ²	1,8	15,2	290	284
1121300013	1121900513	FTG18XOHM16 0,6/1KV 2x2x2,5 mm ²	1,8	16,9	340	344
1121300014	1121900514	FTG18XOHM16 0,6/1KV 2x3x1,5 mm ²	1,8	18,6	400	313
1121300015	1121900515	FTG18XOHM16 0,6/1KV 2x3x2,5 mm ²	2,0	20,7	490	348
1121300016	1121900516	FTG18XOHM16 0,6/1KV 6x2x1 mm ²	1,8	20,4	520	344
1121300017	1121900517	FTG18XOHM16 0,6/1KV 6x2x1,5 mm ²	2,0	21,4	620	360
1121300018	1121900518	FTG18XOHM16 0,6/1KV 6x2x2,5 mm ²	2,0	24,1	820	406
1121300019	1121900519	FTG18XOHM16 0,6/1KV 6x3x1 mm ²	2,0	24,7	740	416
1121300020	1121900520	FTG18XOHM16 0,6/1KV 6x3x1,5 mm ²	2,0	26,2	860	440
1121300021	1121900521	FTG18XOHM16 0,6/1KV 6x3x2,5 mm ²	2,0	28,9	1110	486
1121300022	1121900522	FTG18XOHM16 0,6/1KV 12x2x1 mm ²	2,0	26,4	960	448
1121300023	1121900523	FTG18XOHM16 0,6/1KV 12x2x1,5 mm ²	2,0	27,4	1120	486
1121300024	1121900524	FTG18XOHM16 0,6/1KV 12x2x2,5 mm ²	2,0	32	1430	540
1121300025	1121900525	FTG18XOHM16 0,6/1KV 12x3x1,5 mm ²	2,0	36	1530	608
1121300026	1121900526	FTG18OHM16 0,6/1KV 1x4x1,5 mm ²	1,8	11,6	220	180
1121300027	1121900527	FTG18OHM16 0,6/1KV 1x4x2,5 mm ²	1,8	12,8	280	200
1121300028	1121900528	FTG18OHM16 0,6/1KV 1x4x4 mm ²	1,8	14,2	360	230
1121300029	1121900529	FTG18OHM16 0,6/1KV 1x4x6 mm ²	2,0	16,2	470	260
1121300030	1121900530	FTG18XOHM16 0,6/1KV 2x2x1 mm ²	1,8	14	260	240

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.