

Fire Resistant Instrumentation Cable – 113-1

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

Conductor, MGT, G18 INSULATION, OVERALL SCREEN, M16 INNER SHEATH, STEEL WIRE BRAID ARMOUR, M16 OUTER SHEATH.

EN50200 PH120, IEC 60332.1 IEC 60332.3 – HALOGEN FREE

Technical Specifications n° 113-1/23 10/11/2023 Rev. 0

Type: FTG18XOHM16AM16 0,6/1Kv - FTG18OHM16AM16 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 cores, Blue - Black numbered, UNEL (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.

Inner sheath M16 LSZH extruded compound

Armour Galvanized steel wires braid (SWB)

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

Marking: On the outer sheath "Sensitherm – FTG18XOHM16AM16 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 $\leq 0,90$ mH/Km
- Capacitance $\leq 0,200$ μ F/Km
- This cable is suitable to be used in ATEX area following the EN60079-14 prescription (excluding annex E)

CODE OUTER SHEATH BLACK	CODE OUTER SHEATH RED	ITEM	THICKNESS OUTER SHEATH MM	OVERAL DIAMETER MM	WEIGHT KG/KM	BENDING RADIUS MM
1131900501	1131300001	FTG18OHM16AM16 0,6/1KV 1x2x1,5 mm ²	1,8	13,8	320	220
1131900502	1131300002	FTG18OHM16AM16 0,6/1KV 1x2x2,5 mm ²	1,8	14	370	230
1131900503	1131300003	FTG18OHM16AM16 0,6/1KV 1x2x4 mm ²	1,8	15	430	240
1131900504	1131300004	FTG18OHM16AM16 0,6/1KV 1x2x6 mm ²	2,0	17,5	520	280
1131900505	1131300005	FTG18OHM16AM16 0,6/1KV 1x3x1,5 mm ²	1,8	14,4	350	230
1131900506	1131300006	FTG18OHM16AM16 0,6/1KV 1x3x2,5 mm ²	1,8	15,7	430	250
1131900507	1131300007	FTG18OHM16AM16 0,6/1KV 1x3x4 mm ²	1,8	16,5	520	270
1131900508	1131300008	FTG18OHM16AM16 0,6/1KV 1x3x6 mm ²	2,0	18,4	640	300
1131900509	1131300009	FTG18OHM16AM16 0,6/1KV 1x3x10 mm ²	2,0	21,3	860	350
1131900510	1131300010	FTG18OHM16AM16 0,6/1KV 1x4x1,5 mm ²	1,8	15	410	240
1131900511	1131300011	FTG18OHM16AM16 0,6/1KV 1x4x2,5 mm ²	1,8	16,5	520	270
1131900512	1131300012	FTG18OHM16AM16 0,6/1KV 1x4x4 mm ²	2,0	17,5	620	280
1131900513	1131300013	FTG18OHM16AM16 0,6/1KV 1x4x6 mm ²	2,0	19,4	770	320
1131900514	1131300014	FTG18OHM16AM16 0,6/1KV 1x5x2,5 mm ²	2,0	17,5	580	280
1131900515	1131300015	FTG18OHM16AM16 0,6/1KV 1x5x4 mm ²	2,0	19	720	320
1131900516	1131300016	FTG18OHM16AM16 0,6/1KV 6x1 mm ²	1,8	16,5	460	270
1131900517	1131300017	FTG18XOHM16AM16 0,6/1KV 2x2x0,75 mm ²	1,8	17	440	290
1131900518	1131300018	FTG18XOHM16AM16 0,6/1KV 2x2x1 mm ²	1,8	17,5	460	300
1131900519	1131300019	FTG18XOHM16AM16 0,6/1KV 2x2x1,5 mm ²	1,8	18,8	520	320
1131900520	1131300020	FTG18XOHM16AM16 0,6/1KV 2x2x2,5 mm ²	1,8	20,2	610	350
1131900521	1131300021	FTG18XOHM16AM16 0,6/1KV 2x3x0,75 mm ²	2,0	19,3	520	330
1131900522	1131300022	FTG18XOHM16AM16 0,6/1KV 2x3x1,5 mm ²	1,8	21,5	660	370
1131900523	1131300023	FTG18XOHM16AM16 0,6/1KV 2x3x2,5 mm ²	2,0	23,4	790	400
1131900524	1131300024	FTG18XOHM16AM16 0,6/1KV 6x2x1 mm ²	1,8	23,7	870	400
1131900525	1131300025	FTG18XOHM16AM16 0,6/1KV 6x2x1,5 mm ²	2,0	24,8	980	430
1131900526	1131300026	FTG18XOHM16AM16 0,6/1KV 6x2x2,5 mm ²	2,0	27	1200	464
1131900527	1131300027	FTG18XOHM16AM16 0,6/1KV 6x3x1 mm ²	2,0	37,6	1120	480
1131900528	1131300028	FTG18XOHM16AM16 0,6/1KV 6x3x1,5 mm ²	2,0	29	1280	490
1131900529	1131300029	FTG18XOHM16AM16 0,6/1KV 6x3x2,5 mm ²	2,0	31,6	1580	540
1131900530	1131300030	FTG18XOHM16AM16 0,6/1KV 12x2x1 mm ²	2,0	28,5	1400	490

1131900531	1131300031	FTG18XOHM16AM16 0,6/1KV	12x2x1,5 mm ²	2,0	31	1600	520
1131900532	1131300032	FTG18XOHM16AM16 0,6/1KV	12x2x2,5 mm ²	2,0	34,5	2000	590
1131900533	1131300033	FTG18XOHM16AM16 0,6/1KV	12x3x1,5 mm ²	2,0	37,3	2150	640

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.