

Fire Resistant Instrumentation Cable – 113-3

B2ca s1a-d1-a1

CPR EU 305/2011

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

EN50200, IEC 60332.1 IEC 60332.3 – HALOGEN FREE

Technical Specifications n° 113-3/23 10/11/2023 Rev. 0

Type: FTG18XOHM16FM16 0,6/1Kv - FTG18OHM16FM16 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 round wires plus wrapping polyester tape (SWA)

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

Marking: On the outer sheath "Sensitherm – FTG18XOHM16FM16 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 $\leq 0,90$ 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
1133900501	1133300001	FTG18OHM16FM16 0,6/1KV 1x2x1,5 mm ²	1,8	13,8	320	220
1133900502	1133300002	FTG18OHM16FM16 0,6/1KV 1x2x2,5 mm ²	1,8	14	370	230
1133900503	1133300003	FTG18OHM16FM16 0,6/1KV 1x2x4 mm ²	1,8	15	430	240
1133900504	1133300004	FTG18OHM16FM16 0,6/1KV 1x2x6 mm ²	2,0	17,5	520	280
1133900505	1133300005	FTG18OHM16FM16 0,6/1KV 1x3x1,5 mm ²	1,8	14,4	350	230
1133900506	1133300006	FTG18OHM16FM16 0,6/1KV 1x3x2,5 mm ²	1,8	15,7	430	250
1133900507	1133300007	FTG18OHM16FM16 0,6/1KV 1x3x4 mm ²	1,8	16,5	520	270
1133900508	1133300008	FTG18OHM16FM16 0,6/1KV 1x3x6 mm ²	2,0	18,4	640	300
1133900509	1133300009	FTG18OHM16FM16 0,6/1KV 1x3x10 mm ²	2,0	21,3	860	350
1133900510	1133300010	FTG18OHM16FM16 0,6/1KV 1x4x1,5 mm ²	1,8	15	410	240
1133900511	1133300011	FTG18OHM16FM16 0,6/1KV 1x4x2,5 mm ²	1,8	16,5	520	270
1133900512	1133300012	FTG18OHM16FM16 0,6/1KV 1x4x4 mm ²	2,0	17,5	620	280
1133900513	1133300013	FTG18OHM16FM16 0,6/1KV 1x4x6 mm ²	2,0	19,4	770	320
1133900514	1133300014	FTG18OHM16FM16 0,6/1KV 1x5x2,5 mm ²	2,0	17,5	580	280
1133900515	1133300015	FTG18OHM16FM16 0,6/1KV 1x5x4 mm ²	2,0	19	720	320
1133900516	1133300016	FTG18OHM16FM16 0,6/1KV 6x1 mm ²	1,8	16,5	460	270
1133900517	1133300017	FTG18XOHM16FM16 0,6/1KV 2x2x0,75 mm ²	1,8	17	440	290
1133900518	1133300018	FTG18XOHM16FM16 0,6/1KV 2x2x1 mm ²	1,8	17,5	460	300
1133900519	1133300019	FTG18XOHM16FM16 0,6/1KV 2x2x1,5 mm ²	1,8	18,8	520	320
1133900520	1133300020	FTG18XOHM16FM16 0,6/1KV 2x2x2,5 mm ²	1,8	20,2	610	350
1133900521	1133300021	FTG18XOHM16FM16 0,6/1KV 2x3x0,75 mm ²	2,0	19,3	520	330
1133900522	1133300022	FTG18XOHM16FM16 0,6/1KV 2x3x1,5 mm ²	1,8	21,5	660	370
1133900523	1133300023	FTG18XOHM16FM16 0,6/1KV 2x3x2,5 mm ²	2,0	23,4	790	400
1133900524	1133300024	FTG18XOHM16FM16 0,6/1KV 6x2x1 mm ²	1,8	23,7	870	400
1133900525	1133300025	FTG18XOHM16FM16 0,6/1KV 6x2x1,5 mm ²	2,0	24,8	980	430
1133900526	1133300026	FTG18XOHM16FM16 0,6/1KV 6x2x2,5 mm ²	2,0	27	1200	464
1133900527	1133300027	FTG18XOHM16FM16 0,6/1KV 6x3x1 mm ²	2,0	37,6	1120	480
1133900528	1133300028	FTG18XOHM16FM16 0,6/1KV 6x3x1,5 mm ²	2,0	29	1280	490
1133900529	1133300029	FTG18XOHM16FM16 0,6/1KV 6x3x2,5 mm ²	2,0	31,6	1580	540
1133900530	1133300030	FTG18XOHM16FM16 0,6/1KV 12x2x1 mm ²	2,0	28,5	1400	490
1133900531	1133300031	FTG18XOHM16FM16 0,6/1KV 12x2x1,5 mm ²	2,0	31	1600	520

1133900532	1133300032	FTG18XOHM16FM16 0,6/1KV	12x2x2,5 mm ²	2,0	34,5	2000	590
1133900533	1133300033	FTG18XOHM16FM16 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.