

Fire Resistant Instrumentation Cable – 113-4

B2ca s1a-d1-a1

CPR EU 305/2011

Conductor, MGT, G18 INSULATION, INDIVIDUAL (IF REQUIRED) AND OVERALL SCREEN, M16 INNER SHEATH, STEEL WIRE ARMOUR, M16 OUTER SHEATH.

EN50200, IEC 60332.1 IEC 60332.3 – HALOGEN FREE

Technical Specifications n° 113-4/23 10/11/2023 Rev. 0

Type: FTG18XHOHM16FM16 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)

**Pair screen:
(if necessary)** 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.

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: Red/Black (or to be agreed)

Marking: On the outer sheath "Sensitherm – FTG18XHOHM16FM16 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
1134900501	1134300001	FTG18OHM16FM16 0,6/1KV 1x2x1,5 mm ²	1,8	13,8	320	220
1134900502	1134300002	FTG18OHM16FM16 0,6/1KV 1x2x2,5 mm ²	1,8	14	370	230
1134900503	1134300003	FTG18OHM16FM16 0,6/1KV 1x2x4 mm ²	1,8	15	430	240
1134900504	1134300004	FTG18OHM16FM16 0,6/1KV 1x2x6 mm ²	2,0	17,5	520	280
1134900505	1134300005	FTG18OHM16FM16 0,6/1KV 1x3x1,5 mm ²	1,8	14,4	350	230
1134900506	1134300006	FTG18OHM16FM16 0,6/1KV 1x3x2,5 mm ²	1,8	15,7	430	250
1134900507	1134300007	FTG18OHM16FM16 0,6/1KV 1x3x4 mm ²	1,8	16,5	520	270
1134900508	1134300008	FTG18OHM16FM16 0,6/1KV 1x3x6 mm ²	2,0	18,4	640	300
1134900509	1134300009	FTG18OHM16FM16 0,6/1KV 1x3x10 mm ²	2,0	21,3	860	350
1134900510	1134300010	FTG18OHM16FM16 0,6/1KV 1x4x1,5 mm ²	1,8	15	410	240
1134900511	1134300011	FTG18OHM16FM16 0,6/1KV 1x4x2,5 mm ²	1,8	16,5	520	270
1134900512	1134300012	FTG18OHM16FM16 0,6/1KV 1x4x4 mm ²	2,0	17,5	620	280
1134900513	1134300013	FTG18OHM16FM16 0,6/1KV 1x4x6 mm ²	2,0	19,4	770	320
1134900514	1134300014	FTG18OHM16FM16 0,6/1KV 1x5x2,5 mm ²	2,0	17,5	580	280
1134900515	1134300015	FTG18OHM16FM16 0,6/1KV 1x5x4 mm ²	2,0	19	720	320
1134900516	1134300016	FTG18OHM16FM16 0,6/1KV 6x1 mm ²	1,8	16,5	460	270
1134900517	1134300017	FTG18XHOHM16FM16 0,6/1KV 2x2x0,75 mm ²	1,8	17,8	460	290
1134900518	1134300018	FTG18XHOHM16FM16 0,6/1KV 2x2x1 mm ²	1,8	18,4	480	300
1134900519	1134300019	FTG18XHOHM16FM16 0,6/1KV 2x2x1,5 mm ²	1,8	19,8	540	320
1134900520	1134300020	FTG18XHOHM16FM16 0,6/1KV 2x2x2,5 mm ²	1,8	21,3	640	350
1134900521	1134300021	FTG18XHOHM16FM16 0,6/1KV 2x3x0,75 mm ²	2,0	20,4	550	330
1134900522	1134300022	FTG18XHOHM16FM16 0,6/1KV 2x3x1,5 mm ²	1,8	22,7	700	370
1134900523	1134300023	FTG18XHOHM16FM16 0,6/1KV 2x3x2,5 mm ²	2,0	24,6	830	400
1134900524	1134300024	FTG18XHOHM16FM16 0,6/1KV 6x2x1 mm ²	1,8	25	920	400
1134900525	1134300025	FTG18XHOHM16FM16 0,6/1KV 6x2x1,5 mm ²	2,0	26,2	1030	430
1134900526	1134300026	FTG18XHOHM16FM16 0,6/1KV 6x2x2,5 mm ²	2,0	28,6	1270	464
1134900527	1134300027	FTG18XHOHM16FM16 0,6/1KV 6x3x1 mm ²	2,0	29	1180	480
1134900528	1134300028	FTG18XHOHM16FM16 0,6/1KV 6x3x1,5 mm ²	2,0	30,6	1350	490

1134900529	113400029	FTG18XHOHM16FM16 0,6/1KV	6x3x2,5 mm ²	2,0	33,4	1670	540
1134900530	1134300030	FTG18XHOHM16FM16 0,6/1KV	12x2x1 mm ²	2,0	30	1480	490
1134900531	1134300031	FTG18XHOHM16FM16 0,6/1KV	12x2x1,5 mm ²	2,0	32,5	1700	520
1134900532	1134300032	FTG18XHOHM16FM16 0,6/1KV	12x2x2,5 mm ²	2,0	36,5	2140	590
1134900533	1134300033	FTG18XHOHM16FM16 0,6/1KV	12x3x1,5 mm ²	2,0	38,8	2270	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.