

Fire Resistant Instrumentation Cable – 113

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 PH120, IEC 60332.1 IEC 60332.3 – HALOGEN FREE

Technical Specifications n° 113/22 14/04/2023 Rev. 1

Type: FTG18XOHM16FM16 0,6/1 KV - FTG18XHOHM16FM16 0,6/1KV - FTG18OHM16FM16 0,6/1Kv
FTG18XOHM16AM16 0,6/1Kv - FTG18XHOHM16AM16 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)

**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, or galvanized steel wires braid

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

Marking: On the outer sheath "Sensitherm – FTG18XHOHM16AM16 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)

ITEM	THICKNESS OUTER SHEATH MM	OVERAL DIAMETER MM	WEIGHT KG/KM	BENDING RADIUS MM
FTG180HM16FM16 0,6/1KV 1x2x1,5 mm ²	1,8	14,2	330	220
FTG180HM16FM16 0,6/1KV 1x2x2,5 mm ²	1,8	14,4	380	230
FTG180HM16FM16 0,6/1KV 1x2x4 mm ²	1,8	15,4	440	240
FTG180HM16FM16 0,6/1KV 1x2x6 mm ²	2,0	18	540	280
FTG180HM16FM16 0,6/1KV 1x3x1,5 mm ²	1,8	14,8	360	230
FTG180HM16FM16 0,6/1KV 1x3x2,5 mm ²	1,8	16,2	440	250
FTG180HM16FM16 0,6/1KV 1x3x4 mm ²	1,8	17	540	270
FTG180HM16FM16 0,6/1KV 1x3x6 mm ²	2,0	19	660	300
FTG180HM16FM16 0,6/1KV 1x3x10 mm ²	2,0	22	890	350
FTG180HM16FM16 0,6/1KV 1x4x1,5 mm ²	1,8	15,5	420	240
FTG180HM16FM16 0,6/1KV 1x4x2,5 mm ²	1,8	17	530	270
FTG180HM16FM16 0,6/1KV 1x4x4 mm ²	2,0	18	640	280
FTG180HM16FM16 0,6/1KV 1x4x6 mm ²	2,0	20	790	320
FTG180HM16FM16 0,6/1KV 1x5x2,5 mm ²	2,0	18	600	280
FTG180HM16FM16 0,6/1KV 1x5x4 mm ²	2,0	19,6	740	320
FTG180HM16FM16 0,6/1KV 6x1 mm ²	1,8	17	470	270
FTG18XHOHM16FM16 0,6/1KV 2x2x0,75 mm ²	1,8	18,4	480	290
FTG18XHOHM16FM16 0,6/1KV 2x2x1 mm ²	1,8	19	500	300
FTG18XHOHM16FM16 0,6/1KV 2x2x1,5 mm ²	1,8	20,4	560	320
FTG18XHOHM16FM16 0,6/1KV 2x2x2,5 mm ²	1,8	22	660	350
FTG18XHOHM16FM16 0,6/1KV 2x3x0,75 mm ²	2,0	21	570	330
FTG18XHOHM16FM16 0,6/1KV 2x3x1,5 mm ²	1,8	23,4	720	370
FTG18XHOHM16FM16 0,6/1KV 2x3x2,5 mm ²	2,0	25,4	860	400
FTG18XHOHM16FM16 0,6/1KV 6x2x1 mm ²	1,8	25,8	950	400
FTG18XHOHM16FM16 0,6/1KV 6x2x1,5 mm ²	2,0	27	1060	430
FTG18XHOHM16FM16 0,6/1KV 6x2x2,5 mm ²	2,0	29,5	1310	464
FTG18XHOHM16FM16 0,6/1KV 6x3x1 mm ²	2,0	30	1220	480

FTG18XHOHM16FM16 0,6/1KV	6x3x1,5 mm ²	2,0	31,6	1400	490
FTG18XHOHM16FM16 0,6/1KV	6x3x2,5 mm ²	2,0	34,4	1720	540
FTG18XHOHM16FM16 0,6/1KV	12x2x1 mm ²	2,0	31	1530	490
FTG18XHOHM16FM16 0,6/1KV	12x2x1,5 mm ²	2,0	33,5	1740	520
FTG18XHOHM16FM16 0,6/1KV	12x2x2,5 mm ²	2,0	37,6	2200	590
FTG18XHOHM16FM16 0,6/1KV	12x3x1,5 mm ²	2,0	40,5	2340	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.