

Fire Resistant Instrumentation Cable – 112

B2ca s1a-d1-a1

CPR EU 305/2011

Conductor, MGT, G18 INSULATION, INDIVIDUAL (IF REQUIRED) AND OVERALL SCREEN, M16 OUTER SHEATH. EN50200 PH120, IEC 60332.1 IEC 60332.3 – HALOGEN FREE

Technical Specifications n° 112/22 12/04/2023 Rev. 1

Type:	FTG18XOHM16 0,6/1 KV - FTG18XHOHM16 0,6/1KV - 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)
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.
Outer sheath:	M16 LSZH extruded compound Colour: Blue/Black (or to be agreed)
Marking:	On the outer sheath "Sensitherm – FTG18XHOHM16 0,6/1 KV Siz. IEC 60332.3 EN50200 PH120 WWW/YY (Batch/Num.) B2ca s1a-d1-a1 0001 m"
Performance:	<ul style="list-style-type: none"> - 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 </= 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)

ITEM	THICKNESS OUTER SHEATH MM	OVERAL DIAMETER MM	WEIGHT KG/KM	BENDING RADIUS MM
FTG180HM16 0,6/1KV 1x2x1,5 mm ²	1,8	10,5	150	168
FTG180HM16 0,6/1KV 1x2x2,5 mm ²	1,8	10,8	180	172
FTG180HM16 0,6/1KV 1x2x4 mm ²	1,8	12,2	230	195
FTG180HM16 0,6/1KV 1x2x6 mm ²	2,0	14,6	320	234
FTG180HM16 0,6/1KV 1x2x10 mm ²	2,0	16	440	256
FTG180HM16 0,6/1KV 1x3x1,5 mm ²	1,8	10,8	180	172
FTG180HM16 0,6/1KV 1x3x2,5 mm ²	1,8	11,8	230	188
FTG180HM16 0,6/1KV 1x3x4 mm ²	1,8	13,8	320	221
FTG180HM16 0,6/1KV 1x3x6 mm ²	2,0	15,5	410	248
FTG180HM16 0,6/1KV 1x3x10 mm ²	2,0	19	590	304
FTG18XHOHM16 0,6/1KV 2x2x0,75 mm ²	1,8	14,6	250	256
FTG18XHOHM16 0,6/1KV 2x2x1,5 mm ²	1,8	16	310	284
FTG18XHOHM16 0,6/1KV 2x2x2,5 mm ²	1,8	17,8	360	344
FTG18XHOHM16 0,6/1KV 2x3x1,5 mm ²	1,8	19,6	420	313
FTG18XHOHM16 0,6/1KV 2x3x2,5 mm ²	2,0	21,8	520	348
FTG18XHOHM16 0,6/1KV 6x2x1 mm ²	1,8	21,5	550	344
FTG18XHOHM16 0,6/1KV 6x2x1,5 mm ²	2,0	22,5	650	360
FTG18XHOHM16 0,6/1KV 6x2x2,5 mm ²	2,0	25,4	860	406
FTG18XHOHM16 0,6/1KV 6x3x1 mm ²	2,0	26	780	416
FTG18XHOHM16 0,6/1KV 6x3x1,5 mm ²	2,0	27,6	910	440
FTG18XHOHM16 0,6/1KV 6x3x2,5 mm ²	2,0	30,4	1170	486
FTG18XHOHM16 0,6/1KV 12x2x1 mm ²	2,0	27,8	1010	448
FTG18XHOHM16 0,6/1KV 12x2x1,5 mm ²	2,0	28,8	1180	486
FTG18XHOHM16 0,6/1KV 12x2x2,5 mm ²	2,0	33,7	1510	540
FTG18XHOHM16 0,6/1KV 12x3x1,5 mm ²	2,0	38	1610	608
FTG180HM16 0,6/1KV 1x4x1,5 mm ²	1,8	11,6	220	180
FTG180HM16 0,6/1KV 1x4x2,5 mm ²	1,8	12,8	280	200
FTG180HM16 0,6/1KV 1x4x4 mm ²	1,8	14,2	360	230
FTG180HM16 0,6/1KV 1x4x6 mm ²	2,0	16,2	470	260
FTG18XHOHM16 0,6/1KV 2x2x1 mm ²	1,8	14,8	270	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.