

Instrumentation Cable - 104

CPR EU 305/2011

Conductor, G16 INSULATION, INDIVIDUAL ALUMINIUM SCREEN AND COPPER WIRE BRAID OVERALL SCREEN, M16 OUTER SHEATH
IEC 60332.1 IEC 60332.3 - HALOGEN FREE

Technical Specifications n° 104/23 of 10/11/2023 Rev. 0

Type: FG16XOHH2M16 0,6/1KV - FG16XHOH2M16 0,6/1 KV

Conductor: Flexible metal conductor according to IEC 60228

Insulation: EPR G16 type extruded compound
Temperature range -30 +90° C
Temperature laying 0 +70° C

SIZE	THICKNESS
1,0 mm ²	0,7 ± 0,02 mm
1,5 mm ²	0,7 ± 0,02 mm

Laying up: Twisted to pair, Blue - Black numbered (or to be agreed)

**Pair screen:
(if required)** 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 copper wire braid 60% coverage.

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

Marking: On the outer sheath "Sensitherm - FG16XHOH2M16 0,6/1 KV Siz. IEC 60332.3
WWW/YY (Batch/Num.) Cca s1b-d1-a1 0001 m"

Performance:

- Test voltage core to core 3,5KV
- 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/
- Hydrocarbon and UV resistant
- Cable for intrinsically safe application
- Inductance $\leq 0,90\text{mH/Km}$
- Capacitance $\leq 0,200\mu\text{F/Km}$
- This cable is suitable to be used in ATEX area following the EN 60079-14 prescription (excluding annex E)
- EN50575 tested for approval
- CPR approved Cca s1b,d1,a1

CODE OUTER SHEATH BLACK	CODE OUTER SHEATH BLUE	ITEM	THICKNESS OUTER SHEATH MM	OVERAL DIAMETER MM	WEIGHT KG/KM	BENDING RADIUS MM
104900501	104501501	FG16XOHH2M16 0,6/1KV 1x2x1 mm ²	1,8	10	160	120
104900502	104501502	FG16XHOH2M16 0,6/1KV 2x2x1 mm ²	1,8	14	270	160
104900503	104501503	FG16XHOH2M16 0,6/1KV 5x2x1 mm ²	1,8	18	510	210
104900504	104501504	FG16XHOH2M16 0,6/1KV 6x2x1 mm ²	1,8	19	590	220
104900505	104501505	FG16XHOH2M16 0,6/1KV 7x2x1 mm ²	1,8	20	650	240
104900506	104501506	FG16XHOH2M16 0,6/1KV 12x2x1 mm ²	1,8	25	1000	300
104900507	104501507	FG16XOHH2M16 0,6/1KV 1x3x1 mm ²	1,8	10,4	190	120
104900508	104501508	FG16XHOH2M16 0,6/1KV 2x3x1 mm ²	1,8	16,5	350	190
104900509	104501509	FG16XHOH2M16 0,6/1KV 5x3x1 mm ²	1,8	21	670	250
104900510	104501510	FG16XHOH2M16 0,6/1KV 6x3x1 mm ²	1,8	23	770	270
104900511	104501511	FG16XHOH2M16 0,6/1KV 7x3x1 mm ²	1,8	23,4	850	270
104900512	104501512	FG16XOHH2M16 0,6/1KV 1x2x1,5 mm ²	1,8	10	170	120
104900513	104501513	FG16XOHH2M16 0,6/1KV 1x3x1,5 mm ²	1,8	10,5	200	130
104900514	104501514	FG16XHOH2M16 0,6/1KV 2x2x1,5 mm ²	1,8	14,8	310	180
104900515	104501515	FG16XHOH2M16 0,6/1KV 3x2x1,5 mm ²	1,8	15,8	380	190
104900516	104501516	FG16XHOH2M16 0,6/1KV 7x2x1,5 mm ²	1,8	20,2	730	250
104900517	104501517	FG16XHOH2M16 0,6/1KV 12x2x1,5 mm ²	1,8	26	1120	310
104900518	104501518	FG16XHOH2M16 0,6/1KV 3x3x1,5 mm ²	1,8	18	520	220
104900519	104501519	FG16XHOH2M16 0,6/1KV 7x3x1,5 mm ²	1,8	25	960	300

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.