

Instrumentation Cable - 104

CPR EU 305/2011

CU, 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° 104/18 of 12/01/2018 Rev. 0

Type: F-Cu/G16/IS/CWB/M16 0,6/1KV FG16XHOH2M16 0,6/1 KV
Conductor: Flexible plain copper conductor according to IEC 60228 cl.5
Insulation: EPR G16 type extruded compound
 Temperature range -15 +90° C
 Temperature laying -5 +70° C

SIZE	THICKNESS
1,0 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: Green/Black (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 1/2
- Hydrocarbon and UV resistant
- Cable for intrinsically safe application
- Inductance $\leq 0,90\text{mH/Km}$
- Capacitance $= 0,200\mu\text{F/Km}$
- This cable is suitable to be used in ATEX area following the EN 60079-14 prescription
- EN50575 tested for approval

ITEM			THICKNESS OUTER SHEATH MM	OVERAL DIAMETER MM	WEIGHT KG/KM	BENDING RADIUS MM
FG16XHH2M16	0,6/1KV	1x2x1 mm ²	1,8	10	160	120
FG16XHOH2M16	0,6/1KV	2x2x1 mm ²	1,8	14	270	160
FG16XHOH2M16	0,6/1KV	5x2x1 mm ²	1,8	18	510	210
FG16XHOH2M16	0,6/1KV	6x2x1 mm ²	1,8	19	590	220
FG16XHOH2M16	0,6/1KV	7x2x1 mm ²	1,8	20	650	240
FG16XHOH2M16	0,6/1KV	12x2x1 mm ²	1,8	25	1000	300
FG160HH2M16	0,6/1KV	1x3x1 mm ²	1,8	10,4	190	120
FG16XHOH2M16	0,6/1KV	2x3x1 mm ²	1,8	16,5	350	190
FG16XHOH2M16	0,6/1KV	5x3x1 mm ²	1,8	21	670	250
FG16XHOH2M16	0,6/1KV	6x3x1 mm ²	1,8	23	770	270
FG16XHOH2M16	0,6/1KV	7x3x1 mm ²	1,8	23,4	850	270
FG16XHOH2M16	0,6/1KV	12x3x1 mm ²	2,0	30	1350	360

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.