Sensitherm
Special cables on demand - CPR UE305/2011 READY

CPR
PRODOTTI DA COSTRUZIONE

Instrumentation Cable - 102 CPR EU 305/2011

CU, G16 INSULATION, INDIVIDUAL (IF REQUIRED) AND OVERALL SCREEN, M16 INNER SHEATH, STEEL WIRE ARMOUR, M16 OUTER SHEATH
IEC 60332.1 IEC 60332.3 - HALOGEN FREE

Technical Specifications n° 102/18 of 12/01/2018 Rev. 0

Type: F-Cu/G16/IS/OS/M16/SWA/M16 0,6/1KV - F-Cu/G16/OS/M16/SWA/M16 0,6/1KV
FG16XHOHM16FM16 0,6/1 KV - FG16XOHM16FM16 0,6/1KV

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
0,50 mm²	0,70 ± 0,02 mm
0,75 mm²	0,70 ± 0,02 mm
1,0 mm²	0,70 ± 0,02 mm
1,5 mm²	0,70 ± 0,02 mm
2,5 mm²	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 tape100% 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 tape100% coverage and 25% overlap with metal side in contact with a tinned copper drain wire 7x0,30 size 0,5sqmm.

On the other sheath “Sensitherm – FG16XHOHM16 0,6/1 KV Siz. IEC 60332.3 WWW/YY (Batch/Num.) Cca s1b-d1-a1 0001 m”

Inner sheath: M16 LSZH extruded compound

Armour: Galvanized steel round wires plus wrapping polyester tape (SWA) or Galvanized steel wires braid (SWB)

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

Marking: On the outer sheath “Sensitherm – FG16XHOHM16FM16 0,6/1 KV Siz. IEC 60332.3 WWW/YY (Batch/Num.) Cca s1b-d1-a1 0001 m”

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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, CE I20-37/2
- Low smoke density emiss. IEC 61034 1/2
- Hydrocarbon and UV resistant
- Rodent resistant
- Fit for direct burial
- 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
- EN50575 tested for approval

ITEM		THICK. INNER SHEATH MM	Ø OVER INNER SHEATH MM	THICK. OUTER SHEATH MM	OVERAL DIAMETER MM	WEIGHT KG/KM	BENDING RADIUS MM
FG16OHM16FM16	0,6/1KV 1x2x0,75 mm²	1,0	7	1,8	11,8	230	160
FG16XHOHM16FM16	0,6/1KV 2x2x0,75 mm²	1,0	11,4	1,8	16,4	380	220
FG16XHOHM16FM16	0,6/1KV 3x2x0,75 mm²	1,0	12	1,8	16,8	450	230
FG16XHOHM16FM16	0,6/1KV 4x2x0,75 mm²	1,0	13,2	1,8	18	520	250
FG16XHOHM16FM16	0,6/1KV 5x2x0,75 mm²	1,0	14,5	1,8	20	610	280
FG16XHOHM16FM16	0,6/1KV 6x2x0,75 mm²	1,0	16	1,8	20,8	680	290
FG16XHOHM16FM16	0,6/1KV 7x2x0,75 mm²	1,0	16,2	1,8	21,4	730	310
FG16XHOHM16FM16	0,6/1KV 12x2x0,75 mm²	1,0	21,4	2,0	26	1080	360
FG16XHOHM16FM16	0,6/1KV 16x2x0,75 mm²	1,0	23,6	2,0	29,6	1380	420
FG16XHOHM16FM16	0,6/1KV 24x2x0,75 mm²	1,0	30	2,0	34	1840	470
FG16OHM16FM16	0,6/1KV 1x2x1 mm²	1,0	7,6	1,8	12,4	250	170
FG16XHOHM16FM16	0,6/1KV 2x2x1 mm²	1,0	12	1,8	16,8	410	230
FG16XHOHM16FM16	0,6/1KV 3x2x1 mm²	1,0	12,7	1,8	17,5	490	250
FG16XHOHM16FM16	0,6/1KV 4x2x1 mm²	1,0	14	1,8	19	570	270
FG16XHOHM16FM16	0,6/1KV 5x2x1 mm²	1,0	15,4	1,8	20,8	670	300
FG16XHOHM16FM16	0,6/1KV 6x2x1 mm²	1,0	17	1,8	22	750	310
FG16XHOHM16FM16	0,6/1KV 7x2x1 mm²	1,0	16,8	1,8	22,4	810	320
FG16XHOHM16FM16	0,6/1KV 12x2x1 mm²	1,0	23	2,0	28	1210	390
FG16XHOHM16FM16	0,6/1KV 16x2x1 mm²	1,0	25	2,0	31	1540	430
FG16XHOHM16FM16	0,6/1KV 24x2x1 mm²	1,0	31,4	2,0	36	2070	500
FG16OHM16FM16	0,6/1KV 1x2x1,5 mm²	1,0	8	1,8	12,8	280	180
FG16XHOHM16FM16	0,6/1KV 2x2x1,5 mm²	1,0	12,8	1,8	17,8	460	250
FG16XHOHM16FM16	0,6/1KV 3x2x1,5 mm²	1,0	13,8	1,8	18,5	550	260

APPROVED BY L.S.FIRE ACCORDING TO EN 50575:2014+A1:2016

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ISO 9001 BUREAU VERITAS Certification

FG16XHOHM16FM16	0,6/1KV 4x2x1,5 mm²	1,0	15	1,8	20	650	280
FG16XHOHM16FM16	0,6/1KV 5x2x1,5 mm²	1,0	16,6	1,8	22	770	310
FG16XHOHM16FM16	0,6/1KV 6x2x1,5 mm²	1,0	18	1,8	23	860	330
FG16XHOHM16FM16	0,6/1KV 7x2x1,5 mm²	1,0	18,4	1,8	23,7	940	340
FG16XHOHM16FM16	0,6/1KV 12x2x1,5 mm²	1,0	24,6	2,0	29,8	1440	420
FG16XHOHM16FM16	0,6/1KV 16x2x1,5 mm²	1,0	27	2,0	33	1820	460
FG16XHOHM16FM16	0,6/1KV 24x2x1,5 mm²	1,0	34	2,0	37,6	2470	530
FG16XHM16FM16	0,6/1KV 1x2x2,5 mm²	1,0	9	1,8	16	326	220
FG16XHOHM16FM16	0,6/1KV 2x2x2,5 mm²	1,0	14,4	1,8	19,4	560	280
FG16XHOHM16FM16	0,6/1KV 3x2x2,5 mm²	1,0	15,6	1,8	20,8	670	300
FG16XHOHM16FM16	0,6/1KV 4x2x2,5 mm²	1,0	17	1,8	22	810	310
FG16XHOHM16FM16	0,6/1KV 5x2x2,5 mm²	1,0	18,6	1,8	24,6	990	350
FG16XHOHM16FM16	0,6/1KV 6x2x2,5 mm²	1,0	21	1,8	25,4	1090	360
FG16XHOHM16FM16	0,6/1KV 7x2x2,5 mm²	1,0	21,5	2,0	26,4	1230	380
FG16XHOHM16FM16	0,6/1KV 12x2x2,5 mm²	1,0	27,3	2,0	32,4	1830	460
FG16XHOHM16FM16	0,6/1KV 16x2x2,5 mm²	1,0	31	2,0	36,5	2360	520
FG16XHOHM16FM16	0,6/1KV 24x2x2,5 mm²	1,0	38	2,0	43	3260	600
FG16OHM16FM16	0,6/1KV 1x3x0,75 mm²	1,0	7,6	1,8	12,4	260	170
FG16XHOHM16FM16	0,6/1KV 2x3x0,75 mm²	1,0	13,5	1,8	18,5	470	270
FG16XHOHM16FM16	0,6/1KV 3x3x0,75 mm²	1,0	14,5	1,8	19,2	550	280
FG16XHOHM16FM16	0,6/1KV 4x3x0,75 mm²	1,0	15,8	1,8	20,8	650	290
FG16XHOHM16FM16	0,6/1KV 5x3x0,75 mm²	1,0	17,3	1,8	22,8	770	320
FG16XHOHM16FM16	0,6/1KV 6x3x0,75 mm²	1,0	19,2	1,8	24	860	340
FG16XHOHM16FM16	0,6/1KV 7x3x0,75 mm²	1,0	19,5	2,0	24,6	940	350
FG16XHOHM16FM16	0,6/1KV 12x3x0,75 mm²	1,0	25,8	2,0	30,7	1400	440
FG16XHOHM16FM16	0,6/1KV 16x3x0,75 mm²	1,0	28,5	2,0	34,4	1800	490
FG16XHOHM16FM16	0,6/1KV 24x3x0,75 mm²	1,0	35,6	2,0	36	2420	500
FG16OHM16FM16	0,6/1KV 1x3x1 mm²	1,0	8	1,8	13,2	290	180
FG16XHOHM16FM16	0,6/1KV 2x3x1 mm²	1,0	14,3	1,8	19,6	520	280
FG16XHOHM16FM16	0,6/1KV 3x3x1 mm²	1,0	15,2	1,8	20,6	620	300
FG16XHOHM16FM16	0,6/1KV 4x3x1 mm²	1,0	16,6	1,8	22,2	730	310
FG16XHOHM16FM16	0,6/1KV 5x3x1 mm²	1,0	18,4	1,8	24	850	340
FG16XHOHM16FM16	0,6/1KV 6x3x1 mm²	1,0	20	2,0	25,8	970	370
FG16XHOHM16FM16	0,6/1KV 7x3x1 mm²	1,0	20,2	2,0	26	1080	370
FG16XHOHM16FM16	0,6/1KV 12x3x1 mm²	1,0	27	2,0	33	1640	460
FG16XHOHM16FM16	0,6/1KV 16x3x1 mm²	1,0	30	2,0	36	2030	500

FG16XHOHM16FM16	0,6/1KV 24x3x1 mm²	1,0	37	2,0	43	2840	600
FG16OHM16FM16	0,6/1KV 1x3x1,5 mm²	1,0	8,5	1,8	13,3	320	180
FG16XHOHM16FM16	0,6/1KV 2x3x1,5 mm²	1,0	15,4	1,8	20,6	580	300
FG16XHOHM16FM16	0,6/1KV 3x3x1,5 mm²	1,0	16,6	1,8	21,4	700	310
FG16XHOHM16FM16	0,6/1KV 4x3x1,5 mm²	1,0	18	1,8	23	840	320
FG16XHOHM16FM16	0,6/1KV 5x3x1,5 mm²	1,0	19,8	1,8	25,4	990	360
FG16XHOHM16FM16	0,6/1KV 6x3x1,5 mm²	1,0	22	1,8	27	1130	380
FG16XHOHM16FM16	0,6/1KV 7x3x1,5 mm²	1,0	22,2	2,0	27,8	1280	390
FG16XHOHM16FM16	0,6/1KV 12x3x1,5 mm²	1,0	30	2,0	34	1890	480
FG16XHOHM16FM16	0,6/1KV 16x3x1,5 mm²	1,0	33	2,0	37	2490	520
FG16XHOHM16FM16	0,6/1KV 24x3x1,5 mm²	1,0	41	2,0	45	3350	630
FG16OHM16FM16	0,6/1KV 1x3x2,5 mm²	1,0	9,5	1,8	14,4	380	210
FG16XHOHM16FM16	0,6/1KV 2x3x2,5 mm²	1,0	17,6	1,8	22,4	710	320
FG16XHOHM16FM16	0,6/1KV 3x3x2,5 mm²	1,0	18,6	1,8	23,6	880	340
FG16XHOHM16FM16	0,6/1KV 4x3x2,5 mm²	1,0	20,4	1,8	25,6	1060	360
FG16XHOHM16FM16	0,6/1KV 5x3x2,5 mm²	1,0	22,5	1,8	28	1260	390
FG16XHOHM16FM16	0,6/1KV 6x3x2,5 mm²	1,2	25	2,0	30	1450	420
FG16XHOHM16FM16	0,6/1KV 12x3x2,5 mm²	1,2	33,5	2,0	38	2490	530

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.