

Instrumentation Cable – 101-2

CPR EU 305/2011

**Conductor, G16 INSULATION, INDIVIDUAL (IF REQUIRED) AND OVERALL SCREEN, M16 OUTER SHEATH.
IEC 60332.1 IEC 60332.3 – HALOGEN FREE**

Technical Specifications n° 101-2/23 10/11/2023 Rev. 0

Type: FG16XHOHM16 0,6/1 KV - FG16OHM16 0,6/1Kv

Conductor: Flexible metal conductor according to IEC60228

Insulation: EPR G16 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

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/Green (or to be agreed)

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

Performance:

- Test voltage core to core 3,5 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
- 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)
- 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
1012900501	1012501501	FG16OHM16 0,6/1KV 1x2x0,75 mm ²	1,8	8,8	110	88
1012900502	1012501502	FG16XHOHM16 0,6/1KV 2x2x0,75 mm ²	1,8	12,9	200	129
1012900503	1012501503	FG16XHOHM16 0,6/1KV 3x2x0,75 mm ²	1,8	13,6	250	136
1012900504	1012501504	FG16XHOHM16 0,6/1KV 4x2x0,75 mm ²	1,8	14,7	300	147
1012900505	1012501505	FG16XHOHM16 0,6/1KV 5x2x0,75 mm ²	1,8	16,1	360	161
1012900506	1012501506	FG16XHOHM16 0,6/1KV 6x2x0,75 mm ²	1,8	17,4	400	174
1012900507	1012501507	FG16XHOHM16 0,6/1KV 7x2x0,75 mm ²	1,8	17,6	450	176
1012900508	1012501508	FG16XHOHM16 0,6/1KV 12x2x0,75 mm ²	2,0	23	700	230
1012900509	1012501509	FG16XHOHM16 0,6/1KV 16x2x0,75 mm ²	2,0	25,6	910	256
1012900510	1012501510	FG16XHOHM16 0,6/1KV 24x2x0,75 mm ²	2,0	30	1250	300
1012900511	1012501511	FG16OHM16 0,6/1KV 1x2x1 mm ²	1,8	9	120	90
1012900512	1012501512	FG16XHOHM16 0,6/1KV 2x2x1 mm ²	1,8	13,5	220	135
1012900513	1012501513	FG16XHOHM16 0,6/1KV 3x2x1 mm ²	1,8	14	270	140
1012900514	1012501514	FG16XHOHM16 0,6/1KV 4x2x1 mm ²	1,8	15,5	330	155
1012900515	1012501515	FG16XHOHM16 0,6/1KV 5x2x1 mm ²	1,8	16,8	400	168
1012900516	1012501516	FG16XHOHM16 0,6/1KV 6x2x1 mm ²	1,8	18,4	250	184
1012900517	1012501517	FG16XHOHM16 0,6/1KV 7x2x1 mm ²	1,8	18,6	500	186
1012900518	1012501518	FG16XHOHM16 0,6/1KV 12x2x1 mm ²	2,0	24	800	240
1012900519	1012501519	FG16XHOHM16 0,6/1KV 16x2x1 mm ²	2,0	27	1030	270
1012900520	1012501520	FG16XHOHM16 0,6/1KV 24x2x1 mm ²	2,0	32,5	1420	325
1012900521	1012501521	FG16OHM16 0,6/1KV 1x2x1,5 mm ²	1,8	9,5	130	95
1012900522	1012501522	FG16XHOHM16 0,6/1KV 2x2x1,5 mm ²	1,8	14,4	250	144
1012900523	1012501523	FG16XHOHM16 0,6/1KV 3x2x1,5 mm ²	1,8	15	320	150
1012900524	1012501524	FG16XHOHM16 0,6/1KV 4x2x1,5 mm ²	1,8	16,5	390	165
1012900525	1012501525	FG16XHOHM16 0,6/1KV 5x2x1,5 mm ²	1,8	18	470	180
1012900526	1012501526	FG16XHOHM16 0,6/1KV 6x2x1,5 mm ²	1,8	19,6	530	196
1012900527	1012501527	FG16XHOHM16 0,6/1KV 7x2x1,5 mm ²	1,8	19,8	600	198
1012900528	1012501528	FG16XHOHM16 0,6/1KV 12x2x1,5 mm ²	2,0	26	950	260
1012900529	1012501529	FG16XHOHM16 0,6/1KV 16x2x1,5 mm ²	2,0	29	1240	290
1012900530	1012501530	FG16XHOHM16 0,6/1KV 24x2x1,5 mm ²	2,0	35	1720	350
1012900531	1012501531	FG16XHM16 0,6/1KV 1x2x2,5 mm ²	1,8	10,6	170	106
1012900532	1012501532	FG16XHOHM16 0,6/1KV 2x2x2,5 mm ²	1,8	16	320	160

1012900533	1012501533	FG16XHOHM16	0,6/1KV	3x2x2,5 mm ²	1,8	16,8	400	168
1012900534	1012501534	FG16XHOHM16	0,6/1KV	4x2x2,5 mm ²	1,8	18,4	500	184
1012900535	1012501535	FG16XHOHM16	0,6/1KV	5x2x2,5 mm ²	1,8	20,6	630	206
1012900536	1012501536	FG16XHOHM16	0,6/1KV	6x2x2,5 mm ²	2,0	23	720	230
1012900537	1012501537	FG16XHOHM16	0,6/1KV	7x2x2,5 mm ²	2,0	23,4	810	234
1012900538	1012501538	FG16XHOHM16	0,6/1KV	12x2x2,5 mm ²	2,0	29	1260	290
1012900539	1012501539	FG16XHOHM16	0,6/1KV	16x2x2,5 mm ²	2,0	32,6	1650	326
1012900540	1012501540	FG16XHOHM16	0,6/1KV	24x2x2,5 mm ²	2,0	40	2300	400
1012900541	1012501541	FG16OHM16	0,6/1KV	1x3x0,75 mm ²	1,8	9	130	90
1012900542	1012501542	FG16XHOHM16	0,6/1KV	2x3x0,75 mm ²	1,8	15	250	150
1012900543	1012501543	FG16XHOHM16	0,6/1KV	3x3x0,75 mm ²	1,8	15,8	310	158
1012900544	1012501544	FG16XHOHM16	0,6/1KV	4x3x0,75 mm ²	1,8	17,3	380	173
1012900545	1012501545	FG16XHOHM16	0,6/1KV	5x3x0,75 mm ²	1,8	18,9	460	189
1012900546	1012501546	FG16XHOHM16	0,6/1KV	6x3x0,75 mm ²	1,8	21	520	210
1012900547	1012501547	FG16XHOHM16	0,6/1KV	7x3x0,75 mm ²	1,8	21,6	590	216
1012900548	1012501548	FG16XHOHM16	0,6/1KV	12x3x0,75 mm ²	2,0	27	930	270
1012900549	1012501549	FG16XHOHM16	0,6/1KV	16x3x0,75 mm ²	2,0	30,2	1210	302
1012900550	1012501550	FG16XHOHM16	0,6/1KV	24x3x0,75 mm ²	2,0	35	1660	350
1012900551	1012501551	FG16OHM16	0,6/1KV	1x3x1 mm ²	1,8	9,6	140	96
1012900552	1012501552	FG16XHOHM16	0,6/1KV	2x3x1 mm ²	1,8	14,8	280	148
1012900553	1012501553	FG16XHOHM16	0,6/1KV	3x3x1 mm ²	1,8	15,3	350	153
1012900554	1012501554	FG16XHOHM16	0,6/1KV	4x3x1 mm ²	1,8	17	430	170
1012900555	1012501555	FG16XHOHM16	0,6/1KV	5x3x1 mm ²	1,8	20	520	200
1012900556	1012501556	FG16XHOHM16	0,6/1KV	6x3x1 mm ²	1,8	21,8	590	218
1012900557	1012501557	FG16XHOHM16	0,6/1KV	7x3x1 mm ²	1,8	22	670	220
1012900558	1012501558	FG16XHOHM16	0,6/1KV	12x3x1 mm ²	2,0	29	1030	290
1012900559	1012501559	FG16XHOHM16	0,6/1KV	16x3x1 mm ²	2,0	32,4	1380	324
1012900560	1012501560	FG16XHOHM16	0,6/1KV	24x3x1 mm ²	2,0	38	1860	380
1012900561	1012501561	FG16XHOHM16	0,6/1KV	27x3x1 mm ²	2,0	42	2040	430
1012900562	1012501562	FG16OHM16	0,6/1KV	1x3x1,5 mm ²	1,8	10	160	100
1012900563	1012501563	FG16XHOHM16	0,6/1KV	2x3x1,5 mm ²	1,8	16,8	330	168
1012900564	1012501564	FG16XHOHM16	0,6/1KV	3x3x1,5 mm ²	1,8	17,8	420	178
1012900565	1012501565	FG16XHOHM16	0,6/1KV	4x3x1,5 mm ²	1,8	19,5	510	195
1012900566	1012501566	FG16XHOHM16	0,6/1KV	5x3x1,5 mm ²	1,8	21,4	630	214
1012900567	1012501567	FG16XHOHM16	0,6/1KV	6x3x1,5 mm ²	2,0	24	740	240

1012900568	1012501568	FG16XHOHM16	0,6/1KV	7x3x1,5 mm ²	2,0	24,8	840	248
1012900569	1012501569	FG16XHOHM16	0,6/1KV	12x3x1,5 mm ²	2,0	31	1290	310
1012900570	1012501570	FG16XHOHM16	0,6/1KV	16x3x1,5 mm ²	2,0	34,8	1690	348
1012900571	1012501571	FG16XHOHM16	0,6/1KV	24x3x1,5 mm ²	2,0	43	2360	430
1012900572	1012501572	FG16OHM16	0,6/1KV	1x3x2,5 mm ²	1,8	11	210	110
1012900573	1012501573	FG16XHOHM16	0,6/1KV	2x3x2,5 mm ²	1,8	19	420	190
1012900574	1012501574	FG16XHOHM16	0,6/1KV	3x3x2,5 mm ²	1,8	20	540	200
1012900575	1012701575	FG16XHOHM16	0,6/1KV	4x3x2,5 mm ²	1,8	22	670	220
1012900576	1012501576	FG16XHOHM16	0,6/1KV	6x3x2,5 mm ²	2,0	27	980	270
1012900577	1012501577	FG16XHOHM16	0,6/1KV	12x3x2,5 mm ²	2,0	35	1750	350

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.