

Instrumentation Cable – 101-1

CPR EU 305/2011

**Conductor, G16 INSULATION, OVERALL SCREEN, M16 OUTER SHEATH.
IEC 60332.1 IEC 60332.3 – HALOGEN FREE**

Technical Specifications n° 101-1/23 10/11/2023 Rev. 0

Type: FG16OHM16 0,6/1 KV - FG16XOHM16 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)

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 $\leq 0,90\text{ mH/Km}$
- Capacitance $\leq 0,200\text{ }\mu\text{F/Km}$
- 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
1011900501	1011501501	FG16OHM16 0,6/1KV 1x2x0,75 mm ²	1,8	8,8	110	88
1011900502	1011501502	FG16XOHM16 0,6/1KV 2x2x0,75 mm ²	1,8	12,3	190	129
1011900503	1011501503	FG16XOHM16 0,6/1KV 3x2x0,75 mm ²	1,8	12,9	240	136
1011900504	1011501504	FG16XOHM16 0,6/1KV 4x2x0,75 mm ²	1,8	14	280	147
1011900505	1011501505	FG16XOHM16 0,6/1KV 5x2x0,75 mm ²	1,8	15,3	340	161
1011900506	1011501506	FG16XOHM16 0,6/1KV 6x2x0,75 mm ²	1,8	16,5	380	174
1011900507	1011501507	FG16XOHM16 0,6/1KV 7x2x0,75 mm ²	1,8	16,7	430	176
1011900508	1011501508	FG16XOHM16 0,6/1KV 12x2x0,75 mm ²	2,0	21,9	670	230
1011900509	1011501509	FG16XOHM16 0,6/1KV 16x2x0,75 mm ²	2,0	24,3	860	256
1011900510	1011501510	FG16XOHM16 0,6/1KV 24x2x0,75 mm ²	2,0	28,5	1190	300
1011900511	1011501511	FG16OHM16 0,6/1KV 1x2x1 mm ²	1,8	9	120	90
1011900512	1011501512	FG16XOHM16 0,6/1KV 2x2x1 mm ²	1,8	12,8	210	135
1011900513	1011501513	FG16XOHM16 0,6/1KV 3x2x1 mm ²	1,8	13,3	260	140
1011900514	1011501514	FG16XOHM16 0,6/1KV 4x2x1 mm ²	1,8	14,7	310	155
1011900515	1011501515	FG16XOHM16 0,6/1KV 5x2x1 mm ²	1,8	17,7	380	168
1011900516	1011501516	FG16XOHM16 0,6/1KV 6x2x1 mm ²	1,8	17,5	240	184
1011900517	1011501517	FG16XOHM16 0,6/1KV 7x2x1 mm ²	1,8	17,7	480	186
1011900518	1011501518	FG16XOHM16 0,6/1KV 12x2x1 mm ²	2,0	22,8	760	240
1011900519	1011501519	FG16XOHM16 0,6/1KV 16x2x1 mm ²	2,0	25,7	980	270
1011900520	1011501520	FG16XOHM16 0,6/1KV 24x2x1 mm ²	2,0	30,9	1350	325
1011900521	1011501521	FG16OHM16 0,6/1KV 1x2x1,5 mm ²	1,8	9,5	130	95
1011900522	1011501522	FG16XOHM16 0,6/1KV 2x2x1,5 mm ²	1,8	13,7	240	144
1011900523	1011501523	FG16XOHM16 0,6/1KV 3x2x1,5 mm ²	1,8	14,3	300	150
1011900524	1011501524	FG16XOHM16 0,6/1KV 4x2x1,5 mm ²	1,8	15,7	370	165
1011900525	1011501525	FG16XOHM16 0,6/1KV 5x2x1,5 mm ²	1,8	17,1	450	180
1011900526	1011501526	FG16XOHM16 0,6/1KV 6x2x1,5 mm ²	1,8	18,6	500	196
1011900527	1011501527	FG16XOHM16 0,6/1KV 7x2x1,5 mm ²	1,8	18,8	670	198
1011900528	1011501528	FG16XOHM16 0,6/1KV 12x2x1,5 mm ²	2,0	24,7	900	260
1011900529	1011501529	FG16XOHM16 0,6/1KV 16x2x1,5 mm ²	2,0	27,6	1180	290
1011900530	1011501530	FG16XOHM16 0,6/1KV 24x2x1,5 mm ²	2,0	33,3	1630	350
1011900531	1011501531	FG16XHM16 0,6/1KV 1x2x2,5 mm ²	1,8	10,6	170	106
1011900532	1011501532	FG16XOHM16 0,6/1KV 2x2x2,5 mm ²	1,8	15,2	300	160

1011900533	1011501533	FG16XOHM16	0,6/1KV	3x2x2,5 mm ²	1,8	16	380	168
1011900534	1011501534	FG16XOHM16	0,6/1KV	4x2x2,5 mm ²	1,8	17,5	480	184
1011900535	1011501535	FG16XOHM16	0,6/1KV	5x2x2,5 mm ²	1,8	19,6	600	206
1011900536	1011501536	FG16XOHM16	0,6/1KV	6x2x2,5 mm ²	2,0	21,9	680	230
1011900537	1011501537	FG16XOHM16	0,6/1KV	7x2x2,5 mm ²	2,0	22,2	770	234
1011900538	1011501538	FG16XOHM16	0,6/1KV	12x2x2,5 mm ²	2,0	27,6	1200	290
1011900539	1011501539	FG16XOHM16	0,6/1KV	16x2x2,5 mm ²	2,0	31	1570	326
1011900540	1011501540	FG16XOHM16	0,6/1KV	24x2x2,5 mm ²	2,0	38	2200	400
1011900541	1011501541	FG16OHM16	0,6/1KV	1x3x0,75 mm ²	1,8	9	130	90
1011900542	1011501542	FG16XOHM16	0,6/1KV	2x3x0,75 mm ²	1,8	14,3	240	150
1011900543	1011501543	FG16XOHM16	0,6/1KV	3x3x0,75 mm ²	1,8	15	290	158
1011900544	1011501544	FG16XOHM16	0,6/1KV	4x3x0,75 mm ²	1,8	16,4	360	173
1011900545	1011501545	FG16XOHM16	0,6/1KV	5x3x0,75 mm ²	1,8	18	440	189
1011900546	1011501546	FG16XOHM16	0,6/1KV	6x3x0,75 mm ²	1,8	20	500	210
1011900547	1011501547	FG16XOHM16	0,6/1KV	7x3x0,75 mm ²	1,8	20,5	560	216
1011900548	1011501548	FG16XOHM16	0,6/1KV	12x3x0,75 mm ²	2,0	25,7	880	270
1011900549	1011501549	FG16XOHM16	0,6/1KV	16x3x0,75 mm ²	2,0	28,7	1150	302
1011900550	1011501550	FG16XOHM16	0,6/1KV	24x3x0,75 mm ²	2,0	33,3	1580	350
1011900551	1011501551	FG16OHM16	0,6/1KV	1x3x1 mm ²	1,8	9,6	140	96
1011900552	1011501552	FG16XOHM16	0,6/1KV	2x3x1 mm ²	1,8	14	270	148
1011900553	1011501553	FG16XOHM16	0,6/1KV	3x3x1 mm ²	1,8	14,5	330	153
1011900554	1011501554	FG16XOHM16	0,6/1KV	4x3x1 mm ²	1,8	16,2	410	170
1011900555	1011501555	FG16XOHM16	0,6/1KV	5x3x1 mm ²	1,8	19	500	200
1011900556	1011501556	FG16XOHM16	0,6/1KV	6x3x1 mm ²	1,8	20,7	560	218
1011900557	1011501557	FG16XOHM16	0,6/1KV	7x3x1 mm ²	1,8	20,9	640	220
1011900558	1011501558	FG16XOHM16	0,6/1KV	12x3x1 mm ²	2,0	27,6	980	290
1011900559	1011501559	FG16XOHM16	0,6/1KV	16x3x1 mm ²	2,0	30,8	1310	324
1011900560	1011501560	FG16XOHM16	0,6/1KV	24x3x1 mm ²	2,0	36,1	1770	380
1011900561	1011501561	FG16XOHM16	0,6/1KV	27x3x1 mm ²	2,0	40	1940	430
1011900562	1011501562	FG16OHM16	0,6/1KV	1x3x1,5 mm ²	1,8	10	160	100
1011900563	1011501563	FG16XOHM16	0,6/1KV	2x3x1,5 mm ²	1,8	16	310	168
1011900564	1011501564	FG16XOHM16	0,6/1KV	3x3x1,5 mm ²	1,8	16,9	400	178
1011900565	1011501565	FG16XOHM16	0,6/1KV	4x3x1,5 mm ²	1,8	18,5	490	195
1011900566	1011501566	FG16XOHM16	0,6/1KV	5x3x1,5 mm ²	1,8	20,3	600	214
1011900567	1011501567	FG16XOHM16	0,6/1KV	6x3x1,5 mm ²	2,0	22,8	700	240

1011900568	1011501568	FG16XOHM16	0,6/1KV	7x3x1,5 mm ²	2,0	23,6	800	248
1011900569	1011501569	FG16XOHM16	0,6/1KV	12x3x1,5 mm ²	2,0	29,5	1230	310
1011900570	1011501570	FG16XOHM16	0,6/1KV	16x3x1,5 mm ²	2,0	33	1600	348
1011900571	1011501571	FG16XOHM16	0,6/1KV	24x3x1,5 mm ²	2,0	40,9	2240	430
1011900572	1011501572	FG16OHM16	0,6/1KV	1x3x2,5 mm ²	1,8	11	210	110
1011900573	1011501573	FG16XOHM16	0,6/1KV	2x3x2,5 mm ²	1,8	18,01	400	190
1011900574	1011501574	FG16XOHM16	0,6/1KV	3x3x2,5 mm ²	1,8	19	510	200
1011900575	1011701575	FG16XOHM16	0,6/1KV	4x3x2,5 mm ²	1,8	20,9	640	220
1011900576	1011501576	FG16XOHM16	0,6/1KV	6x3x2,5 mm ²	2,0	25,7	930	270
1011900577	1011501577	FG16XOHM16	0,6/1KV	12x3x2,5 mm ²	2,0	33,3	1140	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.