

Instrumentation Cable – 102-3

CPR EU 305/2011

Conductor, G16 INSULATION, OVERALL SCREEN, M16 INNER SHEATH, STEEL WIRE ARMOUR, M16 OUTER SHEATH

IEC 60332.1 IEC 60332.3 - HALOGEN FREE

Technical Specifications n° 102-3/23 of 10/11/2023 Rev. 0

Type: FG16XOHM16FM16 0,6/1KV, FG16OHM16FM16 0M6/1Kv

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
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.

Inner sheath: M16 LSZH extruded compound

Armour: Galvanized steel round wires 0,9 mm plus wrapping polyester tape (SWA)

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

Marking: On the outer sheath "Sensitherm – FG16XOHM16FM16 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, CE I20-37/2
- Low smoke density emiss. IEC 61034 1/2
- Hydrocarbon and UV resistant
- Rodent resistant
- Fit for direct burial
- CPR approved Cca s1b,d1,a1
- Cable for intrinsically safe application
- Inductance $\leq 0,90 \text{ mH/Km}$
- Capacitance $= 0,200 \text{ }\mu\text{F/Km}$
- This cable is suitable to be used in ATEX area following the EN60079-14 prescription (excluding annex E)
- EN50575 tested for approval

CODE OUTER SHEATH BLACK	CODE OUTER SHEATH BLUE	ITEM	Ø OVER INNER SHEATH MM	THICK. OUTER SHEATH MM	OVERAL DIAMETER MM	WEIGHT KG/KM	BENDING RADIUS MM
1023900501	1023501501	FG16OHM16FM16 0,6/1KV 1x2x0,75 mm ²	7	1,8	11,8	230	160
1023900502	1023501502	FG16XOHM16FM16 0,6/1KV 2x2x0,75 mm ²	11,4	1,8	15,6	360	220
1023900503	1023501503	FG16XOHM16FM16 0,6/1KV 3x2x0,75 mm ²	12	1,8	16	430	230
1023900504	1023501504	FG16XOHM16FM16 0,6/1KV 4x2x0,75 mm ²	13,2	1,8	17,1	490	250
1023900505	1023501505	FG16XOHM16FM16 0,6/1KV 5x2x0,75 mm ²	14,5	1,8	19	580	280
1023900506	1023501506	FG16XOHM16FM16 0,6/1KV 6x2x0,75 mm ²	16	1,8	19,8	640	290
1023900507	1023501507	FG16XOHM16FM16 0,6/1KV 7x2x0,75 mm ²	16,2	1,8	20,3	690	310
1023900508	1023501508	FG16XOHM16FM16 0,6/1KV 12x2x0,75 mm ²	21,4	2,0	24,7	1030	360
1023900509	1023501509	FG16XOHM16FM16 0,6/1KV 16x2x0,75 mm ²	23,6	2,0	28,1	1310	420
1023900510	1023501510	FG16XOHM16FM16 0,6/1KV 24x2x0,75 mm ²	30	2,0	32,3	1750	470
1023900511	1023501511	FG16OHM16FM16 0,6/1KV 1x2x1 mm ²	7,6	1,8	12,4	250	170
1023900512	1023501512	FG16XOHM16FM16 0,6/1KV 2x2x1 mm ²	12	1,8	16	390	230
1023900513	1023501513	FG16XOHM16FM16 0,6/1KV 3x2x1 mm ²	12,7	1,8	16,6	470	250
1023900514	1023501514	FG16XOHM16FM16 0,6/1KV 4x2x1 mm ²	14	1,8	18	540	270
1023900515	1023501515	FG16XOHM16FM16 0,6/1KV 5x2x1 mm ²	15,4	1,8	19,8	640	300
1023900516	1023501516	FG16XOHM16FM16 0,6/1KV 6x2x1 mm ²	17	1,8	20,9	710	310
1023900517	1023501517	FG16XOHM16FM16 0,6/1KV 7x2x1 mm ²	16,8	1,8	21,3	770	320
1023900518	1023501518	FG16XOHM16FM16 0,6/1KV 12x2x1 mm ²	3	2,0	26,6	1150	390
1023900519	1023501519	FG16XOHM16FM16 0,6/1KV 16x2x1 mm ²	25	2,0	29,5	1460	430
1023900520	1023501520	FG16XOHM16FM16 0,6/1KV 24x2x1 mm ²	31,4	2,0	34,2	1960	500
1023900521	1023501521	FG16OHM16FM16 0,6/1KV 1x2x1,5 mm ²	8	1,8	12,8	280	180
1023900522	1023501522	FG16XOHM16FM16 0,6/1KV 2x2x1,5 mm ²	12,8	1,8	16,9	440	250
1023900523	1023501523	FG16XOHM16FM16 0,6/1KV 3x2x1,5 mm ²	13,8	1,8	17,6	520	260
1023900524	1023501524	FG16XOHM16FM16 0,6/1KV 4x2x1,5 mm ²	15	1,8	19	620	280
1023900525	1023501525	FG16XOHM16FM16 0,6/1KV 5x2x1,5 mm ²	16,6	1,8	20,1	730	310
1023900526	1023501526	FG16XOHM16FM16 0,6/1KV 6x2x1,5 mm ²	18	1,8	21,9	820	330
1023900527	1023501527	FG16XOHM16FM16 0,6/1KV 7x2x1,5 mm ²	18,4	1,8	22,5	890	340
1023900528	1023501528	FG16XOHM16FM16 0,6/1KV 12x2x1,5 mm ²	24,6	2,0	28,3	1370	420
1023900529	1023501529	FG16XOHM16FM16 0,6/1KV 16x2x1,5 mm ²	27	2,0	31,4	1730	460
1023900530	1023501530	FG16XOHM16FM16 0,6/1KV 24x2x1,5 mm ²	34	2,0	35,7	2350	530
1023900531	1023501531	FG16XHM16FM16 0,6/1KV 1x2x2,5 mm ²	9	1,8	13,8	326	220
1023900532	1023501532	FG16XOHM16FM16 0,6/1KV 2x2x2,5 mm ²	14,4	1,8	18,4	530	280
1023900533	1023501533	FG16XOHM16FM16 0,6/1KV 3x2x2,5 mm ²	15,6	1,8	19,8	640	300
1023900534	1023501534	FG16XOHM16FM16 0,6/1KV 4x2x2,5 mm ²	17	1,8	20,9	770	310
1023900535	1023501535	FG16XOHM16FM16 0,6/1KV 5x2x2,5 mm ²	18,6	1,8	23,4	940	350
1023900536	1023501536	FG16XOHM16FM16 0,6/1KV 6x2x2,5 mm ²	21	1,8	24,1	1030	360

1023900537	1023501537	FG16XOHM16FM16	0,6/1KV	7x2x2,5 mm ²	21,5	2,0	25,1	1170	380
1023900538	1023501538	FG16XOHM16FM16	0,6/1KV	12x2x2,5 mm ²	27,3	2,0	30,8	1740	460
1023900539	1023501539	FG16XOHM16FM16	0,6/1KV	16x2x2,5 mm ²	31	2,0	34,7	2240	520
1023900540	1023501540	FG16XOHM16FM16	0,6/1KV	24x2x2,5 mm ²	38	2,0	40,9	3100	600
1023900541	1023501541	FG16OHM16FM16	0,6/1KV	1x3x0,75 mm ²	7,6	1,8	12,4	260	170
1023900542	1023501542	FG16XOHM16FM16	0,6/1KV	2x3x0,75 mm ²	13,5	1,8	17,6	450	270
1023900543	1023501543	FG16XOHM16FM16	0,6/1KV	3x3x0,75 mm ²	14,5	1,8	18,2	520	280
1023900544	1023501544	FG16XOHM16FM16	0,6/1KV	4x3x0,75 mm ²	15,8	1,8	19,8	620	290
1023900545	1023501545	FG16XOHM16FM16	0,6/1KV	5x3x0,75 mm ²	17,3	1,8	21,7	730	320
1023900546	1023501546	FG16XOHM16FM16	0,6/1KV	6x3x0,75 mm ²	19,2	1,8	22,8	820	340
1023900547	1023501547	FG16XOHM16FM16	0,6/1KV	7x3x0,75 mm ²	19,5	2,0	16	890	350
1023900548	1023501548	FG16XOHM16FM16	0,6/1KV	12x3x0,75 mm ²	25,8	2,0	29,2	1330	440
1023900549	1023501549	FG16XOHM16FM16	0,6/1KV	16x3x0,75 mm ²	28,5	2,0	32,7	1710	490
1023900550	1023501550	FG16XOHM16FM16	0,6/1KV	24x3x0,75 mm ²	35,6	2,0	34,2	2300	500
1023900551	1023501551	FG16OHM16FM16	0,6/1KV	1x3x1 mm ²	8	1,8	13,2	290	180
1023900552	1023501552	FG16XOHM16FM16	0,6/1KV	2x3x1 mm ²	14,3	1,8	18,6	490	280
1023900553	1023501553	FG16XOHM16FM16	0,6/1KV	3x3x1 mm ²	15,2	1,8	19,6	590	300
1023900554	1023501554	FG16XOHM16FM16	0,6/1KV	4x3x1 mm ²	16,6	1,8	21,1	690	310
1023900555	1023501555	FG16XOHM16FM16	0,6/1KV	5x3x1 mm ²	18,4	1,8	22,8	810	340
1023900556	1023501556	FG16XOHM16FM16	0,6/1KV	6x3x1 mm ²	20	2,0	24,5	920	370
1023900557	1023501557	FG16XOHM16FM16	0,6/1KV	7x3x1 mm ²	20,2	2,0	24,7	1020	370
1023900558	1023501558	FG16XOHM16FM16	0,6/1KV	12x3x1 mm ²	27	2,0	31,35	1560	460
1023900559	1023501559	FG16XOHM16FM16	0,6/1KV	16x3x1 mm ²	30	2,0	34,2	1930	500
1023900560	1023501560	FG16XOHM16FM16	0,6/1KV	24x3x1 mm ²	37	2,0	40,9	2700	600
1023900561	1023501561	FG16OM16FM16	0,6/1KV	1x3x1,5 mm ²	8,5	1,8	13,3	320	180
1023900562	1023501562	FG16XOHM16FM16	0,6/1KV	2x3x1,5 mm ²	15,4	1,8	19,6	550	300
1023900563	1023501563	FG16XOHM16FM16	0,6/1KV	3x3x1,5 mm ²	16,6	1,8	20,3	660	310
1023900564	1023501564	FG16XOHM16FM16	0,6/1KV	4x3x1,5 mm ²	18	1,8	21,8	800	320
1023900565	1023501565	FG16XOHM16FM16	0,6/1KV	5x3x1,5 mm ²	19,8	1,8	24,1	940	360
1023900566	1023501566	FG16XOHM16FM16	0,6/1KV	6x3x1,5 mm ²	22	1,8	25,7	1070	380
1023900567	1023501567	FG16XOHM16FM16	0,6/1KV	7x3x1,5 mm ²	22,2	2,0	26,4	1220	390
1023900568	1023501568	FG16XOHM16FM16	0,6/1KV	12x3x1,5 mm ²	30	2,0	32,3	1800	480
1023900569	1023501569	FG16XOHM16FM16	0,6/1KV	16x3x1,5 mm ²	33	2,0	35,2	2370	520
1023900570	1023501570	FG16XOHM16FM16	0,6/1KV	24x3x1,5 mm ²	41	2,0	42,8	3180	630
1023900571	1023501571	FG16OHM16FM16	0,6/1KV	1x3x2,5 mm ²	9,5	1,8	14,4	380	210
1023900572	1023501572	FG16XOHM16FM16	0,6/1KV	2x3x2,5 mm ²	17,6	1,8	21,3	670	320
1023900573	1023501573	FG16XOHM16FM16	0,6/1KV	3x3x2,5 mm ²	18,6	1,8	22,4	840	340
1023900574	1023501574	FG16XOHM16FM16	0,6/1KV	4x3x2,5 mm ²	20,4	1,8	24,3	1000	360

1023900575	1023501575	FG16XOHM16FM16	0,6/1KV	5x3x2,5 mm ²	22,5	1,8	26,6	1200	390
1023900576	1023501576	FG16XOHM16FM16	0,6/1KV	6x3x2,5 mm ²	25	2,0	28,5	1380	420
1023900577	1023501577	FG16XOHM16FM16	0,6/1KV	12x3x2,5 mm ²	33,5	2,0	36,1	2370	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.