

Instrumentation Cable – 102-4

CPR EU 305/2011

**Conductor, 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° 102-4/23 of 10/11/2023 Rev. 0

Type: FG16XHOHM16FM16 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)

**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.

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 – FG16XHOHM16FM16 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 120-37/2
- 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 $\leq 0,90$ mH/Km
- Capacitance $\leq 0,200$ μ 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
1024900501	1024501501	FG16OHM16FM16 0,6/1KV 1x2x0,75 mm ²	7	1,8	11,8	230	160
1024900502	1024501502	FG16XHOHM16FM16 0,6/1KV 2x2x0,75 mm ²	11,4	1,8	16,4	380	220
1024900503	1024501503	FG16XHOHM16FM16 0,6/1KV 3x2x0,75 mm ²	12	1,8	16,8	450	230
1024900504	1024501504	FG16XHOHM16FM16 0,6/1KV 4x2x0,75 mm ²	13,2	1,8	18	520	250
1024900505	1024501505	FG16XHOHM16FM16 0,6/1KV 5x2x0,75 mm ²	14,5	1,8	20	610	280
1024900506	1024501506	FG16XHOHM16FM16 0,6/1KV 6x2x0,75 mm ²	16	1,8	20,8	680	290
1024900507	1024501507	FG16XHOHM16FM16 0,6/1KV 7x2x0,75 mm ²	16,2	1,8	21,4	730	310
1024900508	1024501508	FG16XHOHM16FM16 0,6/1KV 12x2x0,75 mm ²	21,4	2,0	26	1080	360
1024900509	1024501509	FG16XHOHM16FM16 0,6/1KV 16x2x0,75 mm ²	23,6	2,0	29,6	1380	420
1024900510	1024501510	FG16XHOHM16FM16 0,6/1KV 24x2x0,75 mm ²	30	2,0	34	1840	470
1024900511	1024501511	FG16OHM16FM16 0,6/1KV 1x2x1 mm ²	7,6	1,8	12,4	250	170
1024900512	1024501512	FG16XHOHM16FM16 0,6/1KV 2x2x1 mm ²	12	1,8	16,8	410	230
1024900513	1024501513	FG16XHOHM16FM16 0,6/1KV 3x2x1 mm ²	12,7	1,8	17,5	490	250
1024900514	1024501514	FG16XHOHM16FM16 0,6/1KV 4x2x1 mm ²	14	1,8	19	570	270
1024900515	1024501515	FG16XHOHM16FM16 0,6/1KV 5x2x1 mm ²	15,4	1,8	20,8	670	300
1024900516	1024501516	FG16XHOHM16FM16 0,6/1KV 6x2x1 mm ²	17	1,8	22	750	310
1024900517	1024501517	FG16XHOHM16FM16 0,6/1KV 7x2x1 mm ²	16,8	1,8	22,4	810	320
1024900518	1024501518	FG16XHOHM16FM16 0,6/1KV 12x2x1 mm ²	23	2,0	28	1210	390
1024900519	1024501519	FG16XHOHM16FM16 0,6/1KV 16x2x1 mm ²	25	2,0	31	1540	430
1024900520	1024501520	FG16XHOHM16FM16 0,6/1KV 24x2x1 mm ²	31,4	2,0	36	2070	500
1024900521	1024501521	FG16OHM16FM16 0,6/1KV 1x2x1,5 mm ²	8	1,8	12,8	280	180
1024900522	1024501522	FG16XHOHM16FM16 0,6/1KV 2x2x1,5 mm ²	12,8	1,8	17,8	460	250
1024900523	1024501523	FG16XHOHM16FM16 0,6/1KV 3x2x1,5 mm ²	13,8	1,8	18,5	550	260
1024900524	1024501524	FG16XHOHM16FM16 0,6/1KV 4x2x1,5 mm ²	15	1,8	20	650	280
1024900525	1024501525	FG16XHOHM16FM16 0,6/1KV 5x2x1,5 mm ²	16,6	1,8	22	770	310
1024900526	1024501526	FG16XHOHM16FM16 0,6/1KV 6x2x1,5 mm ²	18	1,8	23	860	330
1024900527	1024501527	FG16XHOHM16FM16 0,6/1KV 7x2x1,5 mm ²	18,4	1,8	23,7	940	340
1024900528	1024501528	FG16XHOHM16FM16 0,6/1KV 12x2x1,5 mm ²	24,6	2,0	29,8	1440	420
1024900529	1024501529	FG16XHOHM16FM16 0,6/1KV 16x2x1,5 mm ²	27	2,0	33	1820	460
1024900530	1024501530	FG16XHOHM16FM16 0,6/1KV 24x2x1,5 mm ²	34	2,0	37,6	2470	530
1024900531	1024501531	FG16XHM16FM16 0,6/1KV 1x2x2,5 mm ²	9	1,8	13,8	326	220

1024900532	1024501532	FG16XHOHM16FM16	0,6/1KV 2x2x2,5 mm ²	14,4	1,8	19,4	560	280
1024900533	1024501533	FG16XHOHM16FM16	0,6/1KV 3x2x2,5 mm ²	15,6	1,8	20,8	670	300
1024900534	1024501534	FG16XHOHM16FM16	0,6/1KV 4x2x2,5 mm ²	17	1,8	22	810	310
1024900535	102401535	FG16XHOHM16FM16	0,6/1KV 5x2x2,5 mm ²	18,6	1,8	24,6	990	350
1024900536	1024501536	FG16XHOHM16FM16	0,6/1KV 6x2x2,5 mm ²	21	1,8	25,4	1090	360
1024900537	1024501537	FG16XHOHM16FM16	0,6/1KV 7x2x2,5 mm ²	21,5	2,0	26,4	1230	380
1024900538	1024501538	FG16XHOHM16FM16	0,6/1KV 12x2x2,5 mm ²	27,3	2,0	32,4	1830	460
1024900539	1024501539	FG16XHOHM16FM16	0,6/1KV 16x2x2,5 mm ²	31	2,0	36,5	2360	520
1024900540	1024501540	FG16XHOHM16FM16	0,6/1KV 24x2x2,5 mm ²	38	2,0	43	3260	600
1024900541	1024501541	FG16OHM16FM16	0,6/1KV 1x3x0,75 mm ²	7,6	1,8	12,4	260	170
1024900542	1024501542	FG16XHOHM16FM16	0,6/1KV 2x3x0,75 mm ²	13,5	1,8	18,5	470	270
1024900543	1024501543	FG16XHOHM16FM16	0,6/1KV 3x3x0,75 mm ²	14,5	1,8	19,2	550	280
1024900544	1024501544	FG16XHOHM16FM16	0,6/1KV 4x3x0,75 mm ²	15,8	1,8	20,8	650	290
1024900545	1024501545	FG16XHOHM16FM16	0,6/1KV 5x3x0,75 mm ²	17,3	1,8	22,8	770	320
1024900546	1024501546	FG16XHOHM16FM16	0,6/1KV 6x3x0,75 mm ²	19,2	1,8	24	860	340
1024900547	1024501547	FG16XHOHM16FM16	0,6/1KV 7x3x0,75 mm ²	19,5	2,0	24,6	940	350
1024900548	1024501548	FG16XHOHM16FM16	0,6/1KV 12x3x0,75 mm ²	25,8	2,0	30,7	1400	440
1024900549	1024501549	FG16XHOHM16FM16	0,6/1KV 16x3x0,75 mm ²	28,5	2,0	34,4	1800	490
1024900550	1024501550	FG16XHOHM16FM16	0,6/1KV 24x3x0,75 mm ²	35,6	2,0	36	2420	500
1024900551	1024501551	FG16OHM16FM16	0,6/1KV 1x3x1 mm ²	8	1,8	13,2	290	180
1024900552	1024501552	FG16XHOHM16FM16	0,6/1KV 2x3x1 mm ²	14,3	1,8	19,6	520	280
1024900553	1024501553	FG16XHOHM16FM16	0,6/1KV 3x3x1 mm ²	15,2	1,8	20,6	620	300
1029400554	1024501554	FG16XHOHM16FM16	0,6/1KV 4x3x1 mm ²	16,6	1,8	22,2	730	310
1029400555	1024501555	FG16XHOHM16FM16	0,6/1KV 5x3x1 mm ²	18,4	1,8	24	850	340
1029400556	1024501556	FG16XHOHM16FM16	0,6/1KV 6x3x1 mm ²	20	2,0	25,8	970	370
1029400557	1024501557	FG16XHOHM16FM16	0,6/1KV 7x3x1 mm ²	20,2	2,0	26	1080	370
1029400558	1024501558	FG16XHOHM16FM16	0,6/1KV 12x3x1 mm ²	27	2,0	33	1640	460
1029400559	1024501559	FG16XHOHM16FM16	0,6/1KV 16x3x1 mm ²	30	2,0	36	2030	500
1029400560	1024501560	FG16XHOHM16FM16	0,6/1KV 24x3x1 mm ²	37	2,0	43	2840	600
1029400561	1024501561	FG16OM16FM16	0,6/1KV 1x3x1,5 mm ²	8,5	1,8	13,3	320	180
1029400562	1024501562	FG16XHOHM16FM16	0,6/1KV 2x3x1,5 mm ²	15,4	1,8	20,6	580	300
1029400563	1024501563	FG16XHOHM16FM16	0,6/1KV 3x3x1,5 mm ²	16,6	1,8	21,4	700	310
1029400564	1024501564	FG16XHOHM16FM16	0,6/1KV 4x3x1,5 mm ²	18	1,8	23	840	320
1029400565	1024501565	FG16XHOHM16FM16	0,6/1KV 5x3x1,5 mm ²	19,8	1,8	25,4	990	360
1029400566	1024501566	FG16XHOHM16FM16	0,6/1KV 6x3x1,5 mm ²	22	1,8	27	1130	380
1029400567	1024501567	FG16XHOHM16FM16	0,6/1KV 7x3x1,5 mm ²	22,2	2,0	27,8	1280	390
1029400568	1024501568	FG16XHOHM16FM16	0,6/1KV 12x3x1,5 mm ²	30	2,0	34	1890	480
1029400569	1024501569	FG16XHOHM16FM16	0,6/1KV 16x3x1,5 mm ²	33	2,0	37	2490	520

1029400570	1024501570	FG16XHOHM16FM16	0,6/1KV	24x3x1,5 mm ²	41	2,0	45	3350	630
1029400571	1024501571	FG16OHM16FM16	0,6/1KV	1x3x2,5 mm ²	9,5	1,8	14,4	380	210
1029400572	1024501572	FG16XHOHM16FM16	0,6/1KV	2x3x2,5 mm ²	17,6	1,8	22,4	710	320
1029400573	1024501573	FG16XHOHM16FM16	0,6/1KV	3x3x2,5 mm ²	18,6	1,8	23,6	880	340
1029400574	1024501574	FG16XHOHM16FM16	0,6/1KV	4x3x2,5 mm ²	20,4	1,8	25,6	1060	360
1029400575	1024501575	FG16XHOHM16FM16	0,6/1KV	5x3x2,5 mm ²	22,5	1,8	28	1260	390
1029400576	1024501576	FG16XHOHM16FM16	0,6/1KV	6x3x2,5 mm ²	25	2,0	30	1450	420
1029400577	1024501577	FG16XHOHM16FM16	0,6/1KV	12x3x2,5 mm 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.