

Instrumentation Cable – 102-1

CPR EU 305/2011

Conductor, G16 INSULATION, OVERALL SCREEN, M16 INNER SHEATH, STEEL WIRE BRAID ARMOUR, M16 OUTER SHEATH
IEC 60332.1 IEC 60332.3 - HALOGEN FREE

Technical Specifications n° 102-1/23 of 10/11/2023 Rev. 0

Type: FG16XOHM16AM16 0,6/1KV, FG16OHM16AM16 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 wires braid (SWB)

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

Marking: On the outer sheath "Sensitherm – FG16XOHM16AM16 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 <= 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

CODE OUTER SHEATH BLACK	CODE OUTER SHEATH BLUE	ITEM	Ø OVER INNER SHEATH MM	THICK. OUTER SHEATH MM	OVERAL DIAMETE R MM	WEIGHT KG/KM	BENDING RADIUS MM
1021900501	1021501501	FG16OHM16AM16 0,6/1KV 1x2x0,75 mm ²	7	1,8	11,8	230	160
1021900502	1021501502	FG16XOHM16AM16 0,6/1KV 2x2x0,75 mm ²	11,4	1,8	15,1	350	220
1021900503	1021501503	FG16XOHM16AM16 0,6/1KV 3x2x0,75 mm ²	12	1,8	15,5	410	230
1021900504	1021501504	FG16XOHM16AM16 0,6/1KV 4x2x0,75 mm ²	13,2	1,8	16,6	480	250
1021900505	1021501505	FG16XOHM16AM16 0,6/1KV 5x2x0,75 mm ²	14,5	1,8	18,4	560	280
1021900506	1021501506	FG16XOHM16AM16 0,6/1KV 6x2x0,75 mm ²	16	1,8	19,1	630	290
1021900507	1021501507	FG16XOHM16AM16 0,6/1KV 7x2x0,75 mm ²	16,2	1,8	19,7	670	310
1021900508	1021501508	FG16XOHM16AM16 0,6/1KV 12x2x0,75 mm ²	21,4	2,0	24	1000	360
1021900509	1021501509	FG16XOHM16AM16 0,6/1KV 16x2x0,75 mm ²	23,6	2,0	27,2	1270	420
1021900510	1021501510	FG16XOHM16AM16 0,6/1KV 24x2x0,75 mm ²	30	2,0	31,3	1700	470
1021900511	1021501511	FG16OHM16AM16 0,6/1KV 1x2x1 mm ²	7,6	1,8	12,4	250	170
1021900512	1021501512	FG16XOHM16AM16 0,6/1KV 2x2x1 mm ²	12	1,8	15,5	380	230
1021900513	1021501513	FG16XOHM16AM16 0,6/1KV 3x2x1 mm ²	12,7	1,8	16,1	450	250
1021900514	1021501514	FG16XOHM16AM16 0,6/1KV 4x2x1 mm ²	14	1,8	17,5	520	270
1021900515	1021501515	FG16XOHM16AM16 0,6/1KV 5x2x1 mm ²	15,4	1,8	19,1	620	300
1021900516	1021501516	FG16XOHM16AM16 0,6/1KV 6x2x1 mm ²	17	1,8	20,2	690	310
1021900517	1021501517	FG16XOHM16AM16 0,6/1KV 7x2x1 mm ²	16,8	1,8	20,6	750	320
1021900518	1021501518	FG16XOHM16AM16 0,6/1KV 12x2x1 mm ²	23	2,0	25,8	1110	390
1021900519	1021501519	FG16XOHM16AM16 0,6/1KV 16x2x1 mm ²	25	2,0	28,5	1410	430
1021900520	1021501520	FG16XOHM16AM16 0,6/1KV 24x2x1 mm ²	31,4	2,0	33,1	1900	500
1021900521	1021501521	FG16OHM16AM16 0,6/1KV 1x2x1,5 mm ²	8	1,8	12,8	280	180
1021900522	1021501522	FG16XOHM16AM16 0,6/1KV 2x2x1,5 mm ²	12,8	1,8	16,4	420	250
1021900523	1021501523	FG16XOHM16AM16 0,6/1KV 3x2x1,5 mm ²	13,8	1,8	17	500	260
1021900524	1021501524	FG16XOHM16AM16 0,6/1KV 4x2x1,5 mm ²	15	1,8	18,4	600	280
1021900525	1021501525	FG16XOHM16AM16 0,6/1KV 5x2x1,5 mm ²	16,6	1,8	20,2	710	310
1021900526	1021501526	FG16XOHM16AM16 0,6/1KV 6x2x1,5 mm ²	18	1,8	21	790	330
1021900527	1021501527	FG16XOHM16AM16 0,6/1KV 7x2x1,5 mm ²	18,4	1,8	21,8	860	340
1021900528	1021501528	FG16XOHM16AM16 0,6/1KV 12x2x1,5 mm ²	24,6	2,0	27,4	1320	420
1021900529	1021501529	FG16XOHM16AM16 0,6/1KV 16x2x1,5 mm ²	27	2,0	30,4	1670	460
1021900530	1021501530	FG16XOHM16AM16 0,6/1KV 24x2x1,5 mm ²	34	2,0	34,6	2270	530
1021900531	1021501531	FG16XH16AM16 0,6/1KV 1x2x2,5 mm ²	9	1,8	13,8	326	220
1021900532	1021501532	FG16XOHM16AM16 0,6/1KV 2x2x2,5 mm ²	14,4	1,8	17,8	510	280
1021900533	1021501533	FG16XOHM16AM16 0,6/1KV 3x2x2,5 mm ²	15,6	1,8	19,1	620	300
1021900534	1021501534	FG16XOHM16AM16 0,6/1KV 4x2x2,5 mm ²	17	1,8	20,2	750	310
1021900535	1021501535	FG16XOHM16AM16 0,6/1KV 5x2x2,5 mm ²	18,6	1,8	22,6	910	350
1021900536	1021501536	FG16XOHM16AM16 0,6/1KV 6x2x2,5 mm ²	21	1,8	23,4	1000	360

1021900537	1021501537	FG16XOHM16AM16	0,6/1KV	7x2x2,5 mm ²	21,5	2,0	24,3	1130	380
1021900538	1021501538	FG16XOHM16AM16	0,6/1KV	12x2x2,5 mm ²	27,3	2,0	30	1680	460
1021900539	1021501539	FG16XOHM16AM16	0,6/1KV	16x2x2,5 mm ²	31	2,0	33,5	2170	520
1021900540	1021501540	FG16XOHM16AM16	0,6/1KV	24x2x2,5 mm ²	38	2,0	39,6	3000	600
1021900541	1021501541	FG16OHM16AM16	0,6/1KV	1x3x0,75 mm ²	7,6	1,8	12,4	260	170
1021900542	1021501542	FG16XOHM16AM16	0,6/1KV	2x3x0,75 mm ²	13,5	1,8	17	430	270
1021900543	1021501543	FG16XOHM16AM16	0,6/1KV	3x3x0,75 mm ²	14,5	1,8	18,2	510	280
1021900544	1021501544	FG16XOHM16AM16	0,6/1KV	4x3x0,75 mm ²	15,8	1,8	19,8	600	290
1021900545	1021501545	FG16XOHM16AM16	0,6/1KV	5x3x0,75 mm ²	17,3	1,8	21,7	710	320
1021900546	1021501546	FG16XOHM16AM16	0,6/1KV	6x3x0,75 mm ²	19,2	1,8	22	790	340
1021900547	1021501547	FG16XOHM16AM16	0,6/1KV	7x3x0,75 mm ²	19,5	2,0	22,6	860	350
1021900548	1021501548	FG16XOHM16AM16	0,6/1KV	12x3x0,75 mm ²	25,8	2,0	28,2	1290	440
1021900549	1021501549	FG16XOHM16AM16	0,6/1KV	16x3x0,75 mm ²	28,5	2,0	31,6	1660	490
1021900550	1021501550	FG16XOHM16AM16	0,6/1KV	24x3x0,75 mm ²	35,6	2,0	33	2230	500
1021900551	1021501551	FG16OHM16AM16	0,6/1KV	1x3x1 mm ²	8	1,8	13,2	290	180
1021900552	1021501552	FG16XOHM16AM16	0,6/1KV	2x3x1 mm ²	14,3	1,8	18	480	280
1021900553	1021501553	FG16XOHM16AM16	0,6/1KV	3x3x1 mm ²	15,2	1,8	19	570	300
1021900554	1021501554	FG16XOHM16AM16	0,6/1KV	4x3x1 mm ²	16,6	1,8	20,4	670	310
1021900555	1021501555	FG16XOHM16AM16	0,6/1KV	5x3x1 mm ²	18,4	1,8	22	780	340
1021900556	1021501556	FG16XOHM16AM16	0,6/1KV	6x3x1 mm ²	20	2,0	23,7	890	370
1021900557	1021501557	FG16XOHM16AM16	0,6/1KV	7x3x1 mm ²	20,2	2,0	24	990	370
1021900558	1021501558	FG16XOHM16AM16	0,6/1KV	12x3x1 mm ²	27	2,0	30,4	1500	460
1021900559	1021501559	FG16XOHM16AM16	0,6/1KV	16x3x1 mm ²	30	2,0	33	1870	500
1021900560	1021501560	FG16XOHM16AM16	0,6/1KV	24x3x1 mm ²	37	2,0	40	2600	600
1021900561	1021501561	FG16OM16AM16	0,6/1KV	1x3x1,5 mm ²	8,5	1,8	13,3	320	180
1021900562	1021501562	FG16XOHM16AM16	0,6/1KV	2x3x1,5 mm ²	15,4	1,8	19	530	300
1021900563	1021501563	FG16XOHM16AM16	0,6/1KV	3x3x1,5 mm ²	16,6	1,8	19,7	640	310
1021900564	1021501564	FG16XOHM16AM16	0,6/1KV	4x3x1,5 mm ²	18	1,8	21,1	770	320
1021900565	1021501565	FG16XOHM16AM16	0,6/1KV	5x3x1,5 mm ²	19,8	1,8	23,3	910	360
1021900566	1021501566	FG16XOHM16AM16	0,6/1KV	6x3x1,5 mm ²	22	1,8	24,8	1040	380
1021900567	1021501567	FG16XOHM16AM16	0,6/1KV	7x3x1,5 mm ²	22,2	2,0	25,6	1180	390
1021900568	1021501568	FG16XOHM16AM16	0,6/1KV	12x3x1,5 mm ²	30	2,0	31,2	1740	480
1021900569	1021501569	FG16XOHM16AM16	0,6/1KV	16x3x1,5 mm ²	33	2,0	35,2	2290	520
1021900570	1021501570	FG16XOHM16AM16	0,6/1KV	24x3x1,5 mm ²	41	2,0	42,8	3080	630
1021900571	1021501571	FG16OHM16AM16	0,6/1KV	1x3x2,5 mm ²	9,5	1,8	14,4	380	210
1021900572	1021501572	FG16XOHM16AM16	0,6/1KV	2x3x2,5 mm ²	17,6	1,8	20,6	650	320
1021900573	1021501573	FG16XOHM16AM16	0,6/1KV	3x3x2,5 mm ²	18,6	1,8	21,7	810	340
1021900574	1021501574	FG16XOHM16AM16	0,6/1KV	4x3x2,5 mm ²	20,4	1,8	23,5	980	360

1021900575	1021501575	FG16XOHM16AM16 0,6/1KV 5x3x2,5 mm ²	22,5	1,8	25,8	1160	390
1021900576	1021501576	FG16XOHM16AM16 0,6/1KV 6x3x2,5 mm ²	25	2,0	27,6	1330	420
1021900577	1021501577	FG16XOHM16AM16 0,6/1KV 12x3x2,5 mm ²	33,5	2,0	35	2290	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.