

Instrumentation Cable – 102-2

CPR EU 305/2011

**Conductor, G16 INSULATION, INDIVIDUAL (IF REQUIRED) AND OVERALL SCREEN, M16 INNER SHEATH, STEEL WIRE BRAID ARMOUR, M16 OUTER SHEATH
IEC 60332.1 IEC 60332.3 - HALOGEN FREE**

Technical Specifications n° 102-2/23 of 10/15/2023 Rev. 0

Type: FG16XHOHM16AM16 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)

**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 wires braid (SWB)

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

Marking: On the outer sheath "Sensitherm – FG16XHOHM16AM16 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 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	\emptyset OVER INNER SHEATH MM	THICK. OUTER SHEATH MM	OVERAL DIAMETER MM	WEIGHT KG/KM	BENDING RADIUS MM
1022900501	1022501501	FG16OHM16AM16 0,6/1KV 1x2x0,75 mm ²	7	1,8	11,8	230	160
1022900502	1022501502	FG16XHOHM16AM16 0,6/1KV 2x2x0,75 mm ²	11,4	1,8	16,4	380	220
1022900503	1022501503	FG16XHOHM16AM16 0,6/1KV 3x2x0,75 mm ²	12	1,8	16,8	450	230
1022900504	1022501504	FG16XHOHM16AM16 0,6/1KV 4x2x0,75 mm ²	13,2	1,8	18	520	250
1022900505	1022501505	FG16XHOHM16AM16 0,6/1KV 5x2x0,75 mm ²	14,5	1,8	20	610	280
1022900506	1022501506	FG16XHOHM16AM16 0,6/1KV 6x2x0,75 mm ²	16	1,8	20,8	680	290
1022900507	1022501507	FG16XHOHM16AM16 0,6/1KV 7x2x0,75 mm ²	16,2	1,8	21,4	730	310
1022900508	1022501508	FG16XHOHM16AM16 0,6/1KV 12x2x0,75 mm ²	21,4	2,0	26	1080	360
1022900509	1022501509	FG16XHOHM16AM16 0,6/1KV 16x2x0,75 mm ²	23,6	2,0	29,6	1380	420
1022900510	1022501510	FG16XHOHM16AM16 0,6/1KV 24x2x0,75 mm ²	30	2,0	34	1840	470
1022900511	1022501511	FG16OHM16AM16 0,6/1KV 1x2x1 mm ²	7,6	1,8	12,4	250	170
1022900512	1022501512	FG16XHOHM16AM16 0,6/1KV 2x2x1 mm ²	12	1,8	16,8	410	230
1022900513	1022501513	FG16XHOHM16AM16 0,6/1KV 3x2x1 mm ²	12,7	1,8	17,5	490	250
1022900514	1022501514	FG16XHOHM16AM16 0,6/1KV 4x2x1 mm ²	14	1,8	19	570	270
1022900515	1022501515	FG16XHOHM16AM16 0,6/1KV 5x2x1 mm ²	15,4	1,8	20,8	670	300
1022900516	1022501516	FG16XHOHM16AM16 0,6/1KV 6x2x1 mm ²	17	1,8	22	750	310
1022900517	1022501517	FG16XHOHM16AM16 0,6/1KV 7x2x1 mm ²	16,8	1,8	22,4	810	320
1022900518	1022501518	FG16XHOHM16AM16 0,6/1KV 12x2x1 mm ²	23	2,0	28	1210	390
1022900519	1022501519	FG16XHOHM16AM16 0,6/1KV 16x2x1 mm ²	25	2,0	31	1540	430
1022900520	1022501520	FG16XHOHM16AM16 0,6/1KV 24x2x1 mm ²	31,4	2,0	36	2070	500
1022900521	1022501521	FG16OHM16AM16 0,6/1KV 1x2x1,5 mm ²	8	1,8	12,8	280	180
1022900522	1022501522	FG16XHOHM16AM16 0,6/1KV 2x2x1,5 mm ²	12,8	1,8	17,8	460	250
1022900523	1022501523	FG16XHOHM16AM16 0,6/1KV 3x2x1,5 mm ²	13,8	1,8	18,5	550	260
1022900524	1022501524	FG16XHOHM16AM16 0,6/1KV 4x2x1,5 mm ²	15	1,8	20	650	280
1022900525	1022501525	FG16XHOHM16AM16 0,6/1KV 5x2x1,5 mm ²	16,6	1,8	22	770	310
1022900526	1022501526	FG16XHOHM16AM16 0,6/1KV 6x2x1,5 mm ²	18	1,8	23	860	330
1022900527	1022501527	FG16XHOHM16AM16 0,6/1KV 7x2x1,5 mm ²	18,4	1,8	23,7	940	340
1022900528	1022501528	FG16XHOHM16AM16 0,6/1KV 12x2x1,5 mm ²	24,6	2,0	29,8	1440	420
1022900529	1022501529	FG16XHOHM16AM16 0,6/1KV 16x2x1,5 mm ²	27	2,0	33	1820	460
1022900530	1022501530	FG16XHOHM16AM16 0,6/1KV 24x2x1,5 mm ²	34	2,0	37,6	2470	530
1022900531	1022501531	FG16XHM16AM16 0,6/1KV 1x2x2,5 mm ²	9	1,8	13,8	326	220
1022900532	1022501532	FG16XHOHM16AM16 0,6/1KV 2x2x2,5 mm ²	14,4	1,8	19,4	560	280

1022900533	1022501533	FG16XHOHM16AM16	0,6/1KV	3x2x2,5 mm ²	15,6	1,8	20,8	670	300
1022900534	1022501534	FG16XHOHM16AM16	0,6/1KV	4x2x2,5 mm ²	17	1,8	22	810	310
1022900535	1022501535	FG16XHOHM16AM16	0,6/1KV	5x2x2,5 mm ²	18,6	1,8	24,6	990	350
1022900536	1022501536	FG16XHOHM16AM16	0,6/1KV	6x2x2,5 mm ²	21	1,8	25,4	1090	360
1022900537	1022501537	FG16XHOHM16AM16	0,6/1KV	7x2x2,5 mm ²	21,5	2,0	26,4	1230	380
1022900538	1022501538	FG16XHOHM16AM16	0,6/1KV	12x2x2,5 mm ²	27,3	2,0	32,4	1830	460
1022900539	1022501539	FG16XHOHM16AM16	0,6/1KV	16x2x2,5 mm ²	31	2,0	36,5	2360	520
1022900540	1022501540	FG16XHOHM16AM16	0,6/1KV	24x2x2,5 mm ²	38	2,0	43	3260	600
1022900541	1022501541	FG16OHM16AM16	0,6/1KV	1x3x0,75 mm ²	7,6	1,8	12,4	260	170
1029200542	1022501542	FG16XHOHM16AM16	0,6/1KV	2x3x0,75 mm ²	13,5	1,8	18,5	470	270
1022900543	1022501543	FG16XHOHM16AM16	0,6/1KV	3x3x0,75 mm ²	14,5	1,8	19,2	550	280
1022900544	1022501544	FG16XHOHM16AM16	0,6/1KV	4x3x0,75 mm ²	15,8	1,8	20,8	650	290
1022900545	1022501545	FG16XHOHM16AM16	0,6/1KV	5x3x0,75 mm ²	17,3	1,8	22,8	770	320
1022900546	1022501546	FG16XHOHM16AM16	0,6/1KV	6x3x0,75 mm ²	19,2	1,8	24	860	340
1022900547	1022501547	FG16XHOHM16AM16	0,6/1KV	7x3x0,75 mm ²	19,5	2,0	24,6	940	350
1022900548	1022501548	FG16XHOHM16AM16	0,6/1KV	12x3x0,75 mm ²	25,8	2,0	30,7	1400	440
1022900549	1022501549	FG16XHOHM16AM16	0,6/1KV	16x3x0,75 mm ²	28,5	2,0	34,4	1800	490
1022900550	1022501550	FG16XHOHM16AM16	0,6/1KV	24x3x0,75 mm ²	35,6	2,0	36	2420	500
1022900551	1022501551	FG16OHM16AM16	0,6/1KV	1x3x1 mm ²	8	1,8	13,2	290	180
1022900552	1022501552	FG16XHOHM16AM16	0,6/1KV	2x3x1 mm ²	14,3	1,8	19,6	520	280
1022900553	1022501553	FG16XHOHM16AM16	0,6/1KV	3x3x1 mm ²	15,2	1,8	20,6	620	300
1022900554	1022501554	FG16XHOHM16AM16	0,6/1KV	4x3x1 mm ²	16,6	1,8	22,2	730	310
1022900555	1022501555	FG16XHOHM16AM16	0,6/1KV	5x3x1 mm ²	18,4	1,8	24	850	340
1022900556	1022501556	FG16XHOHM16AM16	0,6/1KV	6x3x1 mm ²	20	2,0	25,8	970	370
1022900557	1022501557	FG16XHOHM16AM16	0,6/1KV	7x3x1 mm ²	20,2	2,0	26	1080	370
1022900558	1022501558	FG16XHOHM16AM16	0,6/1KV	12x3x1 mm ²	27	2,0	33	1640	460
1022900559	1022501559	FG16XHOHM16AM16	0,6/1KV	16x3x1 mm ²	30	2,0	36	2030	500
1022900560	1022501560	FG16XHOHM16AM16	0,6/1KV	24x3x1 mm ²	37	2,0	43	2840	600
1022900561	1022501561	FG16OM16AM16	0,6/1KV	1x3x1,5 mm ²	8,5	1,8	13,3	320	180
1022900562	1022501562	FG16XHOHM16AM16	0,6/1KV	2x3x1,5 mm ²	15,4	1,8	20,6	580	300
1022900563	1022501563	FG16XHOHM16AM16	0,6/1KV	3x3x1,5 mm ²	16,6	1,8	21,4	700	310
1022900564	1022501564	FG16XHOHM16AM16	0,6/1KV	4x3x1,5 mm ²	18	1,8	23	840	320
1022900565	1022501565	FG16XHOHM16AM16	0,6/1KV	5x3x1,5 mm ²	19,8	1,8	25,4	990	360
1022900566	1022501566	FG16XHOHM16AM16	0,6/1KV	6x3x1,5 mm ²	22	1,8	27	1130	380
1022900567	1022501567	FG16XHOHM16AM16	0,6/1KV	7x3x1,5 mm ²	22,2	2,0	27,8	1280	390
1022900568	1022501568	FG16XHOHM16AM16	0,6/1KV	12x3x1,5 mm ²	30	2,0	34	1890	480
1022900569	1022501569	FG16XHOHM16AM16	0,6/1KV	16x3x1,5 mm ²	33	2,0	37	2490	520
1022900570	1022501570	FG16XHOHM16AM16	0,6/1KV	24x3x1,5 mm ²	41	2,0	45	3350	630

1022900571	1022501571	FG16OHM16AM16	0,6/1KV 1x3x2,5 mm ²	9,5	1,8	14,4	380	210
1022900572	1022501572	FG16XHOHM16AM16	0,6/1KV 2x3x2,5 mm ²	17,6	1,8	22,4	710	320
1022900573	1022501573	FG16XHOHM16AM16	0,6/1KV 3x3x2,5 mm ²	18,6	1,8	23,6	880	340
1022900574	1022501574	FG16XHOHM16AM16	0,6/1KV 4x3x2,5 mm ²	20,4	1,8	25,6	1060	360
1022900575	1022501575	FG16XHOHM16AM16	0,6/1KV 5x3x2,5 mm ²	22,5	1,8	28	1260	390
1022900576	1022501576	FG16XHOHM16AM16	0,6/1KV 6x3x2,5 mm ²	25	2,0	30	1450	420
1022900577	1022501577	FG16XHOHM16AM16	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.