

Control and Power Cable – 107-1 CPR EU 305/2011

CU, G16 INSULATION, R16 INNER SHEATH, STEEL WIRE BRAID ARMOUR, R16 OUTER SHEATH.
IEC 60332.1 IEC 60332.3

Technical Specifications n° 107-1/23 of 10/11/2023 Rev. 0

Type: FG16OR16AR16 0,6/1KV
Conductor: Flexible copper conductor according to IEC 60228 cl.5
Insulation: EPR G16 type extruded compound
Temperature range -30 +90° C
Temperature laying 0 +70° C

SIZE	THICKNESS
1,50 mm ²	0,70 ± 0,02 mm
2,5 mm ²	0,70 ± 0,02 mm
4 mm ²	0,7 ± 0,02 mm
6 mm ²	0,70 ± 0,02 mm
10 mm ²	0,70 ± 0,02 mm
16 mm ²	0,70 ± 0,02 mm
25 mm ²	0,90 ± 0,02 mm
35 mm ²	0,90 ± 0,02 mm
50 mm ²	1,00 ± 0,02 mm
70 mm ²	1,10 ± 0,02 mm
95 mm ²	1,10 ± 0,02 mm
120 mm ²	1,20 ± 0,02 mm

Laying up: Twisted to core, UNEL (or to be agreed)
Inner sheath: R16 PVC extruded compound
Armour: Galvanized steel wires braid (SWB)
Outer sheath: R16 PVC extruded compound
Colour: Grey/Black (or to be agreed)
Marking: On the outer sheath "Sensitherm – FG16OR16AR16 0,6/1 KV Siz. IEC 60332.3
WWW/YY (Batch/Num.) Cca s3-d1-a3 001 m"
Performance: - Test voltage core to core 3,5KV
- Flame retardant according to IEC60 332-3-22, CEI 20-22/2
- Low smoke and fume as per IEC 60754-2, CEI 20-37/2

- HCL emission \leq 18%
- Hydrocarbon and UV resistant
- Rodent resistant
- Fit for direct burial
- 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
- CPR approved cables Cca s3,d1,a3

CODE OUTER SHEATH BLACK	CODE OUTER SHEATH GREY	ITEM	\emptyset OVER INNER SHEATH MM	THICK. OUTER SHEATH MM	OVERAL DIAMETER MM	WEIGHT KG/KM	BENDING RADIUS MM
1071900501	1071703501	FG16OR16AR16 0,6/1KV 2x1,5 mm ²	7,9	1,8	13	250	190
1071900502	1071703502	FG16OR16AR16 0,6/1KV 3x1,5 mm ²	8,4	1,8	13,4	290	190
1071900503	1071703503	FG16OR16AR16 0,6/1KV 4x1,5 mm ²	9	1,8	14,2	330	200
1071900504	1071703504	FG16OR16AR16 0,6/1KV 5x1,5 mm ²	10	1,8	15	380	210
1071900505	1071703505	FG16OR16AR16 0,6/1KV 6x1,5 mm ²	10,6	1,8	15,9	430	220
1071900506	1071703506	FG16OR16AR16 0,6/1KV 7x1,5 mm ²	10,8	1,8	16	450	220
1071900507	1071703507	FG16OR16AR16 0,6/1KV 10x1,5 mm ²	13,6	1,8	18,6	600	260
1071900508	1071703508	FG16OR16AR16 0,6/1KV 12x1,5 mm ²	14,2	1,8	19,4	650	270
1071900509	1071703509	FG16OR16AR16 0,6/1KV 16x1,5 mm ²	15,8	1,8	20,8	800	290
1071900510	1071703510	FG16OR16AR16 0,6/1KV 19x1,5 mm ²	17,6	2,0	23,8	970	340
1071900511	1071703511	FG16OR16AR16 0,6/1KV 20x1,5 mm ²	18	2,0	24,2	990	340
1071900512	1071703512	FG16OR16AR16 0,6/1KV 24x1,5 mm ²	20	2,0	24,7	1080	350
1071900513	1071703513	FG16OR16AR16 0,6/1KV 48x1,5 mm ²	26	2,0	31	1940	440
1071900514	1071703514	FG16OR16AR16 0,6/1KV 2x2,5 mm ²	9	1,8	14	300	200
1071900515	1071703515	FG16OR16AR16 0,6/1KV 3x2,5 mm ²	9,4	1,8	14,4	360	200
1071900516	1071703516	FG16OR16AR16 0,6/1KV 4x2,5 mm ²	10,2	1,8	15,2	410	220
1071900517	1071703517	FG16OR16AR16 0,6/1KV 5x2,5 mm ²	11,2	1,8	16,3	460	230
1071900518	1071703518	FG16OR16AR16 0,6/1KV 6x2,5 mm ²	12,4	1,8	17,2	540	240
1071900519	1071703519	FG16OR16AR16 0,6/1KV 7x2,5 mm ²	12,2	1,8	17,6	590	240
1071900520	1071703520	FG16OR16AR16 0,6/1KV 10x2,5 mm ²	15,8	1,8	21	800	300
1071900521	1071703521	FG16OR16AR16 0,6/1KV 12x2,5 mm ²	16	1,8	21,1	840	300
1071900522	1071703522	FG16OR16AR16 0,6/1KV 16x2,5 mm ²	18,2	2,0	23	1110	330
1071900523	1071703523	FG16OR16AR16 0,6/1KV 20x2,5 mm ²	20,6	2,0	25,2	1310	350
1071900524	1071703524	FG16OR16AR16 0,6/1KV 24x2,5 mm ²	23	2,0	28	1450	400
1071900525	1071703525	FG16OR16AR16 0,6/1KV 48x2,5 mm ²	29	2,0	33	2660	460
1071900526	1071703526	FG16OR16AR16 0,6/1KV 2x4 mm ²	9,8	1,8	15	360	210

1071900527	1071703527	FG16OR16AR16	0,6/1KV	3x4 mm ²	10,3	1,8	15,5	430	210
1071900528	1071703528	FG16OR16AR16	0,6/1KV	4x4 mm ²	11,5	1,8	16,5	500	220
1071900529	1071703529	FG16OR16AR16	0,6/1KV	5x4 mm ²	12,5	1,8	16,9	590	230
1071900530	1071703530	FG16OR16AR16	0,6/1KV	7x4 mm ²	13,7	1,8	19,1	770	260
1071900531	1071703531	FG16OR16AR16	0,6/1KV	2x6 mm ²	11,2	1,8	16,5	440	220
1071900532	1071703532	FG16OR16AR16	0,6/1KV	3x6 mm ²	11,8	1,8	17	530	230
1071900533	1071703533	FG16OR16AR16	0,6/1KV	4x6 mm ²	13	1,8	18	650	250
1071900534	1071703534	FG16OR16AR16	0,6/1KV	5x6 mm ²	14,6	2,0	20	760	280
1071900535	1071703535	FG16OR16AR16	0,6/1KV	2x10 mm ²	14,8	1,8	20,1	640	280
1071900536	1071703536	FG16OR16AR16	0,6/1KV	3x10 mm ²	15,8	1,8	20,8	800	290
1071900537	1071703537	FG16OR16AR16	0,6/1KV	4x10 mm ²	18	1,8	22,8	1020	320
1071900538	1071703538	FG16OR16AR16	0,6/1KV	5x10 mm ²	20	2,0	24,8	1200	350
1071900539	1071703539	FG16OR16AR16	0,6/1KV	2x16 mm ²	18	1,8	22,7	870	320
1071900540	1071703540	FG16OR16AR16	0,6/1KV	3x16 mm ²	19	2,0	24,3	1150	340
1071900541	1071703541	FG16OR16AR16	0,6/1KV	4x16 mm ²	21	2,0	26	1420	370
1071900542	1071703542	FG16OR16AR16	0,6/1KV	5x16 mm ²	23	2,0	28,1	1700	400
1071900543	1071703543	FG16OR16AR16	0,6/1KV	3x25 mm ²	22	2,0	27,1	1550	380
1071900544	1071703544	FG16OR16AR16	0,6/1KV	4x25 mm ²	24,5	2,0	29,1	1940	410
1071900545	1071703545	FG16OR16AR16	0,6/1KV	5x25 mm ²	27	2,0	32	2330	450
1071900546	1071703546	FG16OR16AR16	0,6/1KV	3x35 mm ²	25	2,0	29,1	1980	410
1071900547	1071703547	FG16OR16AR16	0,6/1KV	3½x35 mm ²	27	2,0	32	2500	450
1071900548	1071703548	FG16OR16AR16	0,6/1KV	5x35 mm ²	34	2,0	38,8	3000	550
1071900549	1071703549	FG16OR16AR16	0,6/1KV	3x50 mm ²	29	2,0	33	2620	470
1071900550	1071703550	FG16OR16AR16	0,6/1KV	3½x50 mm ²	31	2,0	35,9	3320	360
1071900551	1071703551	FG16OR16AR16	0,6/1KV	3x70 mm ²	33	2,0	36,9	3420	520
1071900552	1071703552	FG16OR16AR16	0,6/1KV	3½x70 mm ²	36	2,0	40,8	4360	570
1071900553	1071703553	FG16OR16AR16	0,6/1KV	3x95 mm ²	36	2,0	38,7	4400	540
1071900554	1071703554	FG16OR16AR16	0,6/1KV	3½x95 mm ²	41	2,0	44,6	5630	630
1071900555	1071703555	FG16OR16AR16	0,6/1KV	3x120 mm ²	42	2,0	45,6	5340	640
1071900556	1071703556	FG16OR16AR16	0,6/1KV	3½x120 mm ²	44	2,0	48,5	6870	680
1071900557	1071703557	FG16OR16AR16	0,6/1KV	5 G 50 mm ²	35	2,0	38,8	3400	540

Weight and diameter: Are theoretical + / - 10%

Intended use: Control and power cable in buildings and other civil engineering works with the objective of limiting the generation and spread of fire and smoke.