

Power and Control Cable - 111

CPR EU 305/2011

F Conductor, FR-HEPR G18 INSULATION, M16 OUTER SHEATH.
IEC 60502-1, IEC 60332.3 – HALOGEN FREE – CPR B2ca s1a d1 a1

Technical Specifications n° 111/23 of 10/11/2023 Rev. 0

Type: FG180M16 0,6/1KV

Conductor: Flexible plain or tinned copper conductor according to IEC60228 cl.5

Insulation: FR-HEPR G18 type extruded compound
Temperature range -30 +90° C
Temperature laying 0 +70° C

SIZE	THICKNESS
1,5 mm ²	1,0 ± 0,02 mm
2,5 mm ²	1,0 ± 0,02 mm
4,0 mm ²	1,0 ± 0,02 mm
6,0 mm ²	1,0 ± 0,02 mm
10 mm ²	1,0 ± 0,02 mm
16 mm ²	1,0 ± 0,02 mm
25 mm ²	1,0 ± 0,02 mm

Laying up: Twisted to cores, UNEL 00722 color (or to be agreed)

Outer sheath: M16 LSZH extruded compound

Marking: On the outer sheath "Sensitherm – FG180M16 0,6/1 KV Siz. IEC 60332.3 WWW/YY (Batch/Num.)
B2ca s1a-d0-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 20-37/2
- Low smoke density emission IEC 61034 ½
- Hydrocarbon and UV resistant
- This cable is suitable to be used in ATEX area following the EN60079-14 prescription and outdoor applications (excluding annex E)
- EN50575 tested for approval, **B2ca s1a, d1, a1.**

CODE OUTER SHEATH BLACK	ITEM	THICKNESS OUTER SHEATH MM	OVERAL DIAMETER MM	WEIGHT KG/KM	BENDING RADIUS MM
111900501	FG180M16 0,6/1KV 2x1,5 mm ²	1,8	10,7	155,8	150
111900502	FG180M16 0,6/1KV 2x2,5 mm ²	1,8	12	173,6	162
111900503	FG180M16 0,6/1KV 2x4 mm ²	1,8	13,0	233	182
111900504	FG180M16 0,6/1KV 2x6 mm ²	1,8	14	291,6	202
111900505	FG180M16 0,6/1KV 2x10 mm ²	2,0	16,8	410,6	238
111900506	FG180M16 0,6/1KV 2x16 mm ²	2,0	18	568	280
111900507	FG180M16 0,6/1KV 2x25 mm ²	2,0	22,6	780	310
111900508	FG180M16 0,6/1KV 3x1,5 mm ²	1,8	11,6	193,7	162
111900509	FG180M16 0,6/1KV 3x2,5 mm ²	1,8	13	230,4	176
111900510	FG180M16 0,6/1KV 3x4 mm ²	1,8	13,6	299,5	190
111900511	FG180M16 0,6/1KV 3x6 mm ²	1,8	15,2	377,4	213
111900512	FG180M16 0,6/1KV 3x10 mm ²	2,0	17,7	535,9	248
111900513	FG180M16 0,6/1KV 3x16 mm ²	2,0	21	762	294
111900514	FG180M16 0,6/1KV 4x1,5 mm ²	1,8	12,5	221,6	175
111900515	FG180M16 0,6/1KV 4x2,5 mm ²	1,8	13,6	300	190
111900516	FG180M16 0,6/1KV 4x4 mm ²	1,8	14,8	380	207
111900517	FG180M16 0,6/1KV 4x6 mm ²	1,8	16,5	490	231
111900518	FG180M16 0,6/1KV 4x10 mm ²	2,0	19,5	700	273
111900519	FG180M16 0,6/1KV 4x16 mm ²	2,0	23	990	322
111900520	FG180M16 0,6/1KV 5x1,5 mm ²	1,8	13,5	280	189
111900521	FG180M16 0,6/1KV 5x2,5 mm ²	1,8	14,8	350	208
111900522	FG180M16 0,6/1KV 5x4 mm ²	1,8	16,2	450	227
111900523	FG180M16 0,6/1KV 5x6 mm ²	2,0	18,2	580	255
111900524	FG180M16 0,6/1KV 5x10 mm ²	2,0	21,4	840	300
111900525	FG180M16 0,6/1KV 5x16 mm ²	2,0	25	1200	350
111900526	FG180M16 0,6/1KV 7x1,5 mm ²	1,8	14,6	340	204
111900527	FG180M16 0,6/1KV 10x1,5 mm ²	1,8	18,2	470	255
111900528	FG180M16 0,6/1KV 12x1,5 mm ²	1,8	18,8	530	263
111900529	FG180M16 0,6/1KV 14x1,5 mm ²	2,0	19,8	600	277
111900530	FG180M16 0,6/1KV 19x1,5 mm ²	2,0	21,8	760	305
111900531	FG180M16 0,6/1KV 24x1,5 mm ²	2,0	25,5	950	356
111900532	FG180M16 0,6/1KV 27x1,5 mm ²	2,0	26	1040	364
111900533	FG180M16 0,6/1KV 7x2,5 mm ²	1,8	16	440	224
111900534	FG180M16 0,6/1KV 10x2,5 mm ²	1,8	20	610	280

111900535	FG180M16 0,6/1KV	12x2,5 mm ²	2,0	21	700	294
111900536	FG180M16 0,6/1KV	14x2,5 mm ²	2,0	21,8	745,2	305
111900537	FG180M16 0,6/1KV	19x2,5 mm ²	2,0	24	959,2	336
111900538	FG180M16 0,6/1KV	24x2,5 mm ²	2,0	26,5	1183,2	392

Weight and diameter: Are theoretical + / - 10%