

# Control and Power Cable – 114-2      CPR EU 305/2011

**CU, G16 INSULATION, OVERALL SCREEN PCWB, R16 INNER SHEATH, STEEL WIRE ARMOUR SWA, R16 OUTER SHEATH.**

**IEC 60332.1 - IEC 60332.3 – OIL RESISTANT – CPR Cca s3, d1, a3**

Technical Specifications n° 114-2/23 of 10/11/2023 Rev. 0

**Type:**                    **FG160H2R16FR16 0,6/1 KV**

**Conductor:**           Flexible metal conductor according to IEC60228 cl.5

**Insulation:**            EPR G16 type extruded compound

Temperature range -30 +90° C  
Temperature laying 0 +70° C

SIZE	THICKNESS
1,5 mm <sup>2</sup>	0,70 ± 0,02 mm
2,5 mm <sup>2</sup>	0,70 ± 0,02 mm
4 mm <sup>2</sup>	0,70 ± 0,02 mm

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

**Overall screen:**    Applied over total assembly will be wrapped with polyester tape and shielded with copper wire braid 60% coverage.

**Inner sheath:**        R16 PVC extruded compound

**Armour:**                Galvanized steel round wires 0,9 mm plus wrapping polyester tape (SWA)

**Outer sheath:**        R16 PVC extruded compound OIL Resistant  
Colour: Grey/Black (or to be agreed)

**Marking:**              On the outer sheath "Sensitherm – FG160H2R16FR16 0,6/1 KV Siz. IEC 60332.3  
WWW/YY (Batch/Num.) Cca s3-d1-a3 0001mt"

**Performance:**        - Test voltage core to core 3,5KV  
- Flame retardant according to IEC60332-3-24, CEI20-22/3  
- Hydrocarbon and UV resistant  
- Rodent resistant  
- Fit for direct burial  
- 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 GREY	ITEM	THICK. OUTER SHEATH MM	OVERAL DIAMETER MM	WEIGHT KG/KM	BENDING RADIUS MM
1142900501	1142703501	FG160H2R16FR16 0,6/1Kv 2X1,5 mm <sup>2</sup>	1,8	13,4	320	190
1142900502	1142703502	FG160H2R16FR16 0,6/1Kv 3X1,5 mm <sup>2</sup>	1,8	14	380	190
1142900503	1142703503	FG160H2R16FR16 0,6/1Kv 4X1,5 mm <sup>2</sup>	1,8	14,6	430	200
1142900504	1142703504	FG160H2R16FR16 0,6/1Kv 5X1,5 mm <sup>2</sup>	1,8	15,8	480	220
1142900505	1142703505	FG160H2R16FR16 0,6/1Kv 7X1,5 mm <sup>2</sup>	1,8	16,8	610	230
1142900506	1142703506	FG160H2R16FR16 0,6/1Kv 9X1,5 mm <sup>2</sup>	2,0	19	700	270
1142900507	1142703507	FG160H2R16FR16 0,6/1Kv 12X1,5 mm <sup>2</sup>	2,0	20,8	880	290
1142900508	1142703508	FG160H2R16FR16 0,6/1Kv 24X1,5 mm <sup>2</sup>	2,0	27	1400	380
1142900509	1142703509	FG160H2R16FR16 0,6/1Kv 2X2,5 mm <sup>2</sup>	1,8	14,4	380	200
1142900510	1142703510	FG160H2R16FR16 0,6/1Kv 3X2,5 mm <sup>2</sup>	1,8	15	490	210
1142900511	1142703511	FG160H2R16FR16 0,6/1Kv 4X2,5 mm <sup>2</sup>	1,8	16,5	570	230
1142900512	1142703512	FG160H2R16FR16 0,6/1Kv 5X2,5 mm <sup>2</sup>	1,8	17	600	240
1142900513	1142703513	FG160H2R16FR16 0,6/1Kv 7X2,5 mm <sup>2</sup>	1,8	18,8	760	260
1142900514	1142703514	FG160H2R16FR16 0,6/1Kv 9X2,5 mm <sup>2</sup>	2,0	20,4	900	280
1142900515	1142703515	FG160H2R16FR16 0,6/1Kv 12X2,5 mm <sup>2</sup>	2,0	22,6	1100	320

**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.