

CPR cable - INSTRUMENTATION CABLES

IDENTIFICATION AND REACTION TO FIRE

FG16XOHM16FM16 - 0,6/1 kV - PAIR
Cca-s1b,d1,a1



DRAWING IS ONLY ILLUSTRATIVE

CABLE CONSTRUCTION AND SPECIFICATIONS

CONDUCTOR	Material	Flexible annealed bare copper cl.5
INSULATION	Material	Crosslinked elastomeric compound type HEPR suitable for CPR (G16 quality)
	Colors	On Request
PRIMARY CABLING	Type	Cores are twisted in pair with optimal lay length
TOTAL CABLING	Type	Pairs are cabled together with optimal lay length
TOTAL SCREEN	Material	Al/polyester tap, Al in continuous contact with stranded tinned copper cl.2 - 0,5 mm2 + Polyester tape
SHEATH	Material	Halogen free thermoplastic compound suitable for CPR (M16 quality)
	Colors	On request
ARMOUR	Type	Wire armour with counter spiral tape
	Material	Galvanized steel wire 0,6 mm ≤ 30 mm under armour diameter Galvanized steel wire 0,9 mm ≥ 30 mm under armour diameter

CHARACTERISTICS

Electrical:	Voltage rating	600/1000 V
	Insulation resistance	≥ 5000 MOhm x km
	Dielectric test cond/cond	4000 V a.c. x 10 min
Mechanical and Installation:	Min. bending radius	12 x Diam.
	Max operating temperature	90 °C
	Max short circuit temperature	250 °C

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DATASHEET

STANDARDS OR SPECIFICATIONS CONSTRUCTION

Conductors of insulated cables	CEI 20-29 (CEI EN 60228)	IEC 60228	EN 60228
National annex to EN 50363-0: Insulating, sheathing and covering materials for low-voltage energy cables - Part 0: General Introduction	CEI 20-11/0-1;V1	-	-
Rubber insulated cables with rated voltages between 1 kV and 30 kV (where applicable)	CEI 20-13 PQA	-	-

STANDARDS OR SPECIFICATIONS TEST

Test on electric and optical fibre under fire conditions Part 1-2: Test for vertical flame propagation for a single insulated wire or cable - Procedure for 1 kW pre-mixed flame	CEI 20-35/1-2 (CEI EN 60332-1-2)	IEC 60332-1-2	EN 60332-1-2
Common test methods for cables under fire conditions - Heat release and smoke production measurement on cables during flame spread test - Test apparatus, procedures, results	CEI 20-108 (CEI EN 50399)	-	EN 50399
Common test methods for cables under fire conditions - Test on gases evolved during combustion of materials from cables. Part 2-2: Procedures - Determination of degree of acidity of gases for cables by determination of the weighted average of pH and conductivity	CEI 20-37/2-3 (CEI EN 50267-2-3)	-	EN 50267-2-3
Smoke density: Test procedures	CEI 20-37/3-1 (CEI EN 61034-2)	IEC 61034-2	EN 61034-2 EN 50268-2

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Special Electrical Cables

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IDENTIFICATION (*)	P/N	Max conductor resistance at 20°C	Nom. Under armour Ø	Nom. Outer Ø	Nom. Weight
		Ohm/km	mm	mm	kg/km
FG16XOHM16FM16 - 0,6/1 kV - 1x2x0,75 mm2	9800	26	7,15	12,65	287
FG16XOHM16FM16 - 0,6/1 kV - 2x2x0,75 mm2	9801	26	10,44	15,94	444
FG16XOHM16FM16 - 0,6/1 kV - 6x2x0,75 mm2	9804	26	14,43	19,93	665
FG16XOHM16FM16 - 0,6/1 kV - 12x2x0,75 mm2	9806	26	19,13	24,63	994
FG16XOHM16FM16 - 0,6/1 kV - 24x2x0,75 mm2	9808	26	26,46	32,38	1598
FG16XOHM16FM16 - 0,6/1 kV - 1x2x1,5 mm2	9818	13,3	8,01	13,51	332
FG16XOHM16FM16 - 0,6/1 kV - 2x2x1,5 mm2	9819	13,3	11,85	17,35	536
FG16XOHM16FM16 - 0,6/1 kV - 6x2x1,5 mm2	9822	13,3	16,5	22	840
FG16XOHM16FM16 - 0,6/1 kV - 12x2x1,5 mm2	9824	13,3	22,09	27,79	1326
FG16XOHM16FM16 - 0,6/1 kV - 24x2x1,5 mm2	9826	13,3	30,85	37,77	2407
FG16XOHM16FM16 - 0,6/1 kV - 1x2x2,5 mm2	9827	7,98	8,95	14,45	386
FG16XOHM16FM16 - 0,6/1 kV - 2x2x2,5 mm2	9828	7,98	13,49	18,99	651
FG16XOHM16FM16 - 0,6/1 kV - 6x2x2,5 mm2	9831	7,98	18,7	24,2	1060
FG16XOHM16FM16 - 0,6/1 kV - 12x2x2,5 mm2	9833	7,98	25,22	31,14	1738
FG16XOHM16FM16 - 0,6/1 kV - 24x2x2,5 mm2	9835	7,98	35,32	42,66	3203

(*) Any other identification on request. Please contact our technical department

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FOR.EL.IND S.p.A.

Via Europa, 6 - 24055 Cologno al Serio (BG - ITALY)

Phone + 39 035 899191 - Fax + 39 035 4819224

www.forelind.com E-mail: sales@forelind.com