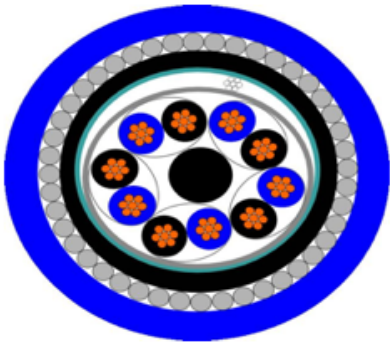


CPR cable - INSTRUMENTATION CABLES

IDENTIFICATION AND REACTION TO FIRE

FS17XOHR16FR16 - 450/750 V - PAIR
Cca-s3,d1,a3



DRAWING IS ONLY ILLUSTRATIVE

CABLE CONSTRUCTION AND SPECIFICATIONS

CONDUCTOR	Material	Flexible annealed bare copper cl.5
INSULATION	Material	Fire retardant thermoplastic compound S17 PVC-based (S17 quality)
	Colors	On Request
PRIMARY CABLING	Type	Cores are twisted in pair with optimal lay length
TOTAL SCREEN	Material	Al/polyester tape, Al in continuous contact with stranded tinned copper cl.2 - 0,5 mm2 + Polyester tape
TOTAL CABLING	Type	Pairs are cabled together with optimal lay length
SHEATH	Material	Fire retardant thermoplastic compound R16 PVC-based suitable for CPR (R16 quality)
	Colors	Natural
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
SHEATH	Material	Fire retardant thermoplastic compound R16 PVC-based H.R. and O.R. suitable for CPR (R16 quality)
	Colors	On request

CHARACTERISTICS

Mechanical and Installation:	Min. bending radius	15 x Diam.
	Max operating temperature	70 °C
	Max short circuit temperature	160 °C

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DATASHEET

CHARACTERISTICS

Electrical:	Voltage rating	450/750 V
	Spark test	8000 V
	Insulation resistance	≥ 100 MOhm x km
	Dielectric test cond/cond	3000 V a.c. x 10 min
	Dielectric test cond/screen	2000 V a.c. x 1 min
	Dielectric test sche/arm	125 V a.c. x 1 min
	Capacitance	≤ 250 nF/km
	Inductance	≤ 1,25 mH/km
	L/R Ratio	≤ 40 up to 1,5 mm2 ≤ 60 up to 2,5 mm2

STANDARDS OR SPECIFICATIONS CONSTRUCTION

Conductors of insulated cables	CEI 20-29 (CEI EN 60228)	IEC 60228	EN 60228
Insulating, sheathing and covering materials for low-voltage energy cables (CPR)	CEI 20-11/0-1;V1	-	-
Multi-element metallic cables used in analogue and digital communication and control. Part 7: Sectional specification for instrumentation and control cables (where applicable)	CEI 46-143 (CEI EN 50288-7)	-	EN 50288-7
PVC insulated cables with rated voltages between 1 kV and 3 kV (applicable only for armour)	CEI 20-14	-	-

STANDARDS OR SPECIFICATIONS TEST

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
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

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Special Electrical Cables

CPR cable - INSTRUMENTATION CABLES

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DATASHEET

IDENTIFICATION (*)	P/N	Max conductor resistance at 20°C	Nom. Under armour Ø	Nom. Outer Ø	Nom. Weight
		Ohm/km	mm	mm	kg/km
FS17XOHR16FR16 - 450/750 V - 1X2x0,75 mm2	8200	26	6,67	11,35	241
FS17XOHR16FR16 - 450/750 V - 2X2x0,75 mm2	8201	26	9,65	14,53	388
FS17XOHR16FR16 - 450/750 V - 6X2x0,75 mm2	8204	26	13,28	18,36	595
FS17XOHR16FR16 - 450/750 V - 12X2x0,75 mm2	8206	26	17,53	22,83	898
FS17XOHR16FR16 - 450/750 V - 24X2x0,75 mm2	8208	26	24,17	29,87	1449
FS17XOHR16FR16 - 450/750 V - 1x2x1,5 mm2	9200	13,3	7,53	12,21	289
FS17XOHR16FR16 - 450/750 V - 2x2x1,5 mm2	8218	13,3	11,06	15,94	474
FS17XOHR16FR16 - 450/750 V - 3x2x1,5 mm2	8219	13,3	11,77	16,65	522
FS17XOHR16FR16 - 450/750 V - 4x2x1,5 mm2	8220	13,3	13,01	18,09	608
FS17XOHR16FR16 - 450/750 V - 6x2x1,5 mm2	8221	13,3	15,35	20,43	766
FS17XOHR16FR16 - 450/750 V - 10x2x1,5 mm2	8222	13,3	18,83	24,13	1065
FS17XOHR16FR16 - 450/750 V - 12x2x1,5 mm2	8223	13,3	20,49	25,99	1226
FS17XOHR16FR16 - 450/750 V - 16x2x1,5 mm2	8224	13,3	23,36	29,06	1489
FS17XOHR16FR16 - 450/750 V - 24x2x1,5 mm2	8225	13,3	28,56	34,48	2052
FS17XOHR16FR16 - 450/750 V - 1x2x2,5 mm2	9210	7,98	8,87	13,55	357
FS17XOHR16FR16 - 450/750 V - 2x2x2,5 mm2	8226	7,98	13,41	18,49	633
FS17XOHR16FR16 - 450/750 V - 3x2x2,5 mm2	8227	7,98	14,3	19,38	706
FS17XOHR16FR16 - 450/750 V - 4x2x2,5 mm2	8228	7,98	15,71	20,79	808
FS17XOHR16FR16 - 450/750 V - 6x2x2,5 mm2	8229	7,98	18,56	23,86	1043
FS17XOHR16FR16 - 450/750 V - 10x2x2,5 mm2	8230	7,98	23	28,5	1498
FS17XOHR16FR16 - 450/750 V - 12x2x2,5 mm2	8231	7,98	24,95	30,55	1722
FS17XOHR16FR16 - 450/750 V - 16x2x2,5 mm2	8232	7,98	28,82	34,74	2139
FS17XOHR16FR16 - 450/750 V - 24x2x2,5 mm2	8233	7,98	34,94	41,86	3165

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

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