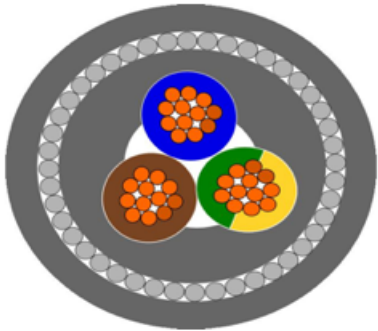


CPR cable - INSTRUMENTATION CABLES

IDENTIFICATION AND REACTION TO FIRE

FG16OR16FR16 - 0,6/1 kV
Cca-s3,d1,a3



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
TOTAL CABLING	Type	Core are cabled with optimal lay lenght
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

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	15 x Diam.
	Max operating temperature	90 °C
	Max short circuit temperature	250 °C

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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

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Special Electrical Cables

CPR cable - INSTRUMENTATION CABLES

PAGE 03

DATASHEET

IDENTIFICATION (*)	P/N	Max conductor	Nom. Under	Nom. Outer Ø	Nom. Weight
		resistance at 20°C	armour Ø		
		Ohm/km	mm	mm	kg/km
FG16OR16FR16 - 0,6/1 kV - 2x1,5 mm2	9000	13,3	7,92	13,42	325
FG16OR16FR16 - 0,6/1 kV - 3x1,5 mm2	9001	13,3	8,39	13,89	352
FG16OR16FR16 - 0,6/1 kV - 4x1,5 mm2	9002	13,3	9,15	14,65	391
FG16OR16FR16 - 0,6/1 kV - 5x1,5 mm2	9003	13,3	9,99	15,49	439
FG16OR16FR16 - 0,6/1 kV - 7x1,5 mm2	9004	13,3	10,97	16,47	498
FG16OR16FR16 - 0,6/1 kV - 10x1,5 mm2	9056	13,3	15,28	20,78	834
FG16OR16FR16 - 0,6/1 kV - 12x1,5 mm2	9005	13,3	14,56	20,06	711
FG16OR16FR16 - 0,6/1 kV - 16x1,5 mm2	9006	13,3	16,16	21,66	834
FG16OR16FR16 - 0,6/1 kV - 24x1,5 mm2	9007	13,3	19,41	24,91	1087
FG16OR16FR16 - 0,6/1 kV - 2x2,5 mm2	9008	7,98	8,86	14,36	379
FG16OR16FR16 - 0,6/1 kV - 3x2,5 mm2	9009	7,98	9,41	14,91	414
FG16OR16FR16 - 0,6/1 kV - 4x2,5 mm2	9010	7,98	10,28	15,78	470
FG16OR16FR16 - 0,6/1 kV - 5x2,5 mm2	9011	7,98	11,26	16,76	534
FG16OR16FR16 - 0,6/1 kV - 7x2,5 mm2	9012	7,98	12,53	18,03	623
FG16OR16FR16 - 0,6/1 kV - 10x2,5 mm2	9055	7,98	13,49	18,99	665
FG16OR16FR16 - 0,6/1 kV - 12x2,5 mm2	9013	7,98	16,51	22,01	901
FG16OR16FR16 - 0,6/1 kV - 16x2,5 mm2	9014	7,98	18,37	23,87	1074
FG16OR16FR16 - 0,6/1 kV - 24x2,5 mm2	9015	7,98	22,24	27,94	1452
FG16OR16FR16 - 0,6/1 kV - 2x4 mm2	9016	4,95	10,04	15,54	457
FG16OR16FR16 - 0,6/1 kV - 3x4 mm2	9017	4,95	10,68	16,18	513
FG16OR16FR16 - 0,6/1 kV - 4x4 mm2	9018	4,95	11,7	17,2	588
FG16OR16FR16 - 0,6/1 kV - 5x4 mm2	9057	4,95	12,95	18,45	705
FG16OR16FR16 - 0,6/1 kV - 2x6 mm2	9019	3,3	11,1	16,6	534
FG16OR16FR16 - 0,6/1 kV - 3x6 mm2	9020	3,3	11,83	17,33	621
FG16OR16FR16 - 0,6/1 kV - 4x6 mm2	9021	3,3	13,08	18,58	708
FG16OR16FR16 - 0,6/1 kV - 5x6 mm2	9058	3,3	14,39	18,89	845
FG16OR16FR16 - 0,6/1 kV - 2x10 mm2	9022	1,91	13,04	18,54	695
FG16OR16FR16 - 0,6/1 kV - 3x10 mm2	9023	1,91	13,92	19,42	808
FG16OR16FR16 - 0,6/1 kV - 4x10 mm2	9024	1,91	15,3	20,8	948
FG16OR16FR16 - 0,6/1 kV - 5x10 mm2	9059	1,91	16,87	22,37	1142
FG16OR16FR16 - 0,6/1 kV - 2x16 mm2	9025	1,21	16,72	22,22	1012
FG16OR16FR16 - 0,6/1 kV - 3x16 mm2	9026	1,21	17,89	23,39	1198

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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
FG16OR16FR16 - 0,6/1 kV - 4x16 mm2	9027	1,21	19,75	25,25	1428
FG16OR16FR16 - 0,6/1 kV - 5x16 mm2	9060	1,21	21,94	27,64	16,92
FG16OR16FR16 - 0,6/1 kV - 2x25 mm2	9028	0,78	18,7	24,2	1297
FG16OR16FR16 - 0,6/1 kV - 3x25 mm2	9029	0,78	20,03	25,53	1574
FG16OR16FR16 - 0,6/1 kV - 4x25 mm2	9030	0,78	22,24	27,94	1925
FG16OR16FR16 - 0,6/1 kV - 5x25 mm2	9061	0,78	24,61	30,53	2326
FG16OR16FR16 - 0,6/1 kV - 2x35 mm2	9031	0,554	23,2	28,9	1759
FG16OR16FR16 - 0,6/1 kV - 3x35 mm2	9032	0,554	24,88	30,8	2149
FG16OR16FR16 - 0,6/1 kV - 3x35+1X25 mm2	9033	0,554 for 35 mmq 0,780 for 25 mmq	24,45	32,57	2505
FG16OR16FR16 - 0,6/1 kV - 4x35 mm2	9065	0,554	27,85	33,97	2646
FG16OR16FR16 - 0,6/1 kV - 5x35 mm2	9062	0,554	30,85	37,77	3405
FG16OR16FR16 - 0,6/1 kV - 2x50 mm2	9034	0,386	27,74	33,86	2406
FG16OR16FR16 - 0,6/1 kV - 3x50 mm2	9035	0,386	29,76	36,08	2952
FG16OR16FR16 - 0,6/1 kV - 3x50+1x25 mm2	9036	0,386 for 50 mmq 0,780 for 25 mmq	30,79	37,71	3460
FG16OR16FR16 - 0,6/1 kV - 5x50 mm2	9063	0,386	36,57	43,91	4484
FG16OR16FR16 - 0,6/1 kV - 2x70 mm2	9037	0,272	28,66	34,78	2844
FG16OR16FR16 - 0,6/1 kV - 3x70 mm2	9038	0,272	32,91	38,56	3981
FG16OR16FR16 - 0,6/1 kV - 3x70+1x35 mm2	9039	0,272 for 70 mmq 0,554 for 35 mmq	32,65	39,79	4456
FG16OR16FR16 - 0,6/1 kV - 2x95 mm2	9040	0,206	35,42	42,76	4029
FG16OR16FR16 - 0,6/1 kV - 3x95 mm2	9041	0,206	38,45	45,99	5030
FG16OR16FR16 - 0,6/1 kV - 3x95+1x50 mm2	9042	0,206 for 95 mmq 0,386 for 50 mmq	40,32	47,86	5717
FG16OR16FR16 - 0,6/1 kV - 4x95 mm2	9064	0,206	42,63	50,37	6167
FG16OR16FR16 - 0,6/1 kV - 2x120 mm2	9043	0,161	34,96	42,3	4415
FG16OR16FR16 - 0,6/1 kV - 3x120 mm2	9044	0,161	37,96	45,5	5629
FG16OR16FR16 - 0,6/1 kV - 3x120+1x70 mm2	9045	0,161 for 120 mmq 0,272 for 70 mmq	40,41	47,95	6616
FG16OR16FR16 - 0,6/1 kV - 2x150 mm2	9046	0,129	44,08	52,04	5935
FG16OR16FR16 - 0,6/1 kV - 3x150 mm2	9047	0,129	47,37	55,53	7380

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PAGE 05

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
FG16OR16FR16 - 0,6/1 kV - 3x150+1x95 mm2	9048	0,129 for 150 mmq 0,206 for 95 mmq	50,39	53,06	8185
FG16OR16FR16 - 0,6/1 kV - 2x185 mm2	9049	0,106	43,08	50,82	6338
FG16OR16FR16 - 0,6/1 kV - 3x185 mm2	9050	0,106	46,29	54,45	8083
FG16OR16FR16 - 0,6/1 kV - 3x185+1x95 mm2	9051	0,106 for 185 mmq 0,206 for 95 mmq	48,49	56,65	9301
FG16OR16FR16 - 0,6/1 kV - 2x240 mm2	9052	0,0801	53,28	61,86	8979
FG16OR16FR16 - 0,6/1 kV - 3x240 mm2	9053	0,0801	27,29	66,07	11386
FG16OR16FR16 - 0,6/1 kV - 3x240+1x150 mm2	9054	0,0801 for 240 mmq 0,129 for 150 mmq	57,04	69,22	13214

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