

FR2OR16 – 450/750 V

Flexible multicore cable, PVC insulated under PVC jacket

Class Eca – DoP 22ICM014

CONSTRUCTION FEATURES

Conductor	Annealed red copper class 5
Isolation	R2 quality PVC compound
Color	Bipolar: <i>Blue – Brown</i> ; Tripolar: <i>Brown – Black – Gray</i> or <i>Yellow/Green – Blue – Brown</i> ; Four-pole: <i>Blue – Brown – Black – Gray</i> or <i>Yellow/Green – Brown – Black – Gray</i> ; Five-pole: <i>Blue – Brown – Black – Gray – Black</i> or <i>Yellow/Green – Blue – Brown – Black – Gray</i> ; Numbered black without Yellow/Green Numbered black with Yellow/Green
Twist	Cores are twisted in concentric layer
Jacket	R16 quality PVC compound
Color	Black, White or Gray
Marking	I.C.M. S.R.L. – FR2OR16 – 450/750 V – formation – Eca – CE + metric marking

ELECTRICAL CHARACTERISTICS

Voltage Rating U_0/U	450/750 V
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MECHANICAL CHARACTERISTICS

Max operating temperature	70 °C
Max short circuit temperature	160 °C
Min operating temperature	-10 °C for mobile installation -25 °C for fixed installation without mechanical stress
Min laying temperature	+5 °C
Max tensile strenght	15 N/mm ² for mobile installation 50 N/mm ² for fixed installation
Min bending radius	6 x \varnothing_{ext} for mobile installation 4 x \varnothing_{ext} for fixed installation

REFERENCE STANDARDS, REGULATIONS AND DIRECTIVES

EN 50525-1 Where Applicable; CEI 20-11/0-1; Dir. 2014/35/UE; Dir. 2011/65/UE, Reg. 305/2011 UE

USE CONDITIONS

Cables suitable for connections to mobile equipment or for fixed installation in places with low risk of fire. For use indoors in dry or wet rooms, outdoors for intermittent or temporary use. Laying underground even if protected is not permitted. Not suitable for bundle installations.

I.C.M. INDUSTRIA CAVI MERLOTTI S.R.L.

Formation	Max resistance conductor at 20°C	Nom. outer Ø	Nom. weight
N° cond x sect. (mm ²)	Ohm/km	mm	Kg/km
2X0.50	39	5.88	49
3X0.50	39	6.19	57
4X0.50	39	6.67	68
5X0.50	39	7.22	81
6X0.50	39	8.19	98
7X0.50	39	8.19	107
8X0.50	39	8.86	121
10X0.50	39	9.72	146
12X0.50	39	10.41	169
16X0.50	39	11.64	216
24X0.50	39	14.16	317
2X0.75	26	6.52	62
3X0.75	26	6.88	74
4X0.75	26	7.44	88
5X0.75	26	8.48	113
6X0.75	26	9.15	128
7X0.75	26	9.15	140
8X0.75	26	9.93	158
10X0.75	26	11.13	198
12X0.75	26	11.94	230
16X0.75	26	13.46	296
24X0.75	26	16.31	435
2X1	19.5	7.06	75
3X1	19.5	7.46	89
4X1	19.5	8.50	115
5X1	19.5	9.21	138
6X1	19.5	9.96	156
7X1	19.5	9.96	172
8X1	19.5	11.04	200
10X1	19.5	12.16	245
12X1	19.5	13.38	295
16X1	19.5	15.13	380
24X1	19.5	17.88	539

Formation	Max resistance conductor at 20°C	Nom. outer Ø	Nom. weight
N° cond x sect. (mm ²)	Ohm/km	mm	Kg/km
2X1.50	13.3	8.22	104
3X1.50	13.3	8.68	124
4X1.50	13.3	9.41	150
5X1.50	13.3	10.29	179
6X1.50	13.3	11.30	210
7X1.50	13.3	11.30	232
8X1.50	13.3	12.63	273
10X1.50	13.3	14.02	338
12X1.50	13.3	15.36	405
16X1.50	13.3	16.92	504
24X1.50	13.3	20.30	733
2X2.50	7.98	9.32	142
3X2.50	7.98	9.87	179
4X2.50	7.98	10.94	217
5X2.50	7.98	11.92	260
6X2.50	7.98	13.27	309
7X2.50	7.98	13.27	343
8X2.50	7.98	14.57	394
10X2.50	7.98	16.41	497
12X2.50	7.98	17.65	581
16X2.50	7.98	19.72	740
24X2.50	7.98	23.59	1073
2X4	4.95	10.96	203
3X4	4.95	11.62	250
4X4	4.95	13.00	316
5X4	4.95	14.29	385
2X6	3.30	12.16	267
3X6	3.30	13.24	344
4X6	3.30	14.55	427
5X6	3.30	16.21	588