

FR2OR – 450/750 V

Flexible multipolar cable, PVC insulated under PVC jacket

EU Regulation N.305/2011 – Class Eca – DoP 18ICM007

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	Roped with a suitable step
Jacket	TM2 quality PVC compound
Color	Black, White or Gray
Marking	I.C.M. S.R.L. – FR2OR – 450/750 V – formation – Eca – CE + metric marking

ELECTRICAL CHARACTERISTICS

Nominal tension U₀/U	450/750 V
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MECHANICAL CHARACTERISTICS

Max operating temperature	70 °C
Max short circuit temperature	160 °C
Min operating temperature	-15 °C
Min laying temperature	0 °C
Max traction effort	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

50525-1; Directive 2014/35/UE; Directive 2011/65/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	Maximum electrical resistance at 20°C	Nom. outer \varnothing	Nom. weight
N° cond x sect. (mm ²)	Ohm/km	mm	Kg/km
2X0.50	39	5.54	43.35
3X0.50	39	5.87	51.08
4X0.50	39	6.39	61.26
5X0.50	39	6.99	72.33
6X0.50	39	7.61	83.87
8X0.50	39	8.33	104.92
10X0.50	39	9.26	129.72
12X0.50	39	10.01	151.89
16X0.50	39	11.12	189.83
24X0.50	39	13.40	275.56
2X0.75	26	5.96	51.99
3X0.75	26	6.33	61.94
4X0.75	26	6.91	74.79
5X0.75	26	7.56	88.70
6X0.75	26	8.24	103.17
8X0.75	26	9.04	129.84
10X0.75	26	10.07	160.98
12X0.75	26	10.89	189.00
16X0.75	26	12.12	237.39
24X0.75	26	14.63	346.15
2X1	19.5	7.46	79.07
3X1	19.5	7.89	92.97
4X1	19.5	8.57	110.95
5X1	19.5	9.53	134.71
6X1	19.5	10.08	148.71
8X1	19.5	10.98	185.25
10X1	19.5	11.92	222.28
12X1	19.5	12.81	258.48
16X1	19.5	14.35	327.46
24X1	19.5	17.47	483.75

Formation	Maximum electrical resistance at 20°C	Nom. outer \varnothing	Nom. weight
N° cond x sect. (mm ²)	Ohm/km	mm	Kg/km
2X1.50	13.3	8.01	95.60
3X1.50	13.3	8.48	114.05
4X1.50	13.3	9.37	140.39
5X1.50	13.3	10.48	171.86
6X1.50	13.3	10.97	187.82
8X1.50	13.3	12.09	238.82
10X1.50	13.3	13.39	311.22
12X1.50	13.3	15.19	370.04
16X1.50	13.3	16.99	468.04
24X1.50	13.3	20.64	689.08
2X2.50	7.98	9.69	144.00
3X2.50	7.98	10.27	173.11
4X2.50	7.98	11.18	209.30
5X2.50	7.98	12.41	253.60
6X2.50	7.98	13.05	279.79
8X2.50	7.98	14.41	358.07
10X2.50	7.98	16.15	448.37
12X2.50	7.98	17.55	530.46
16X2.50	7.98	19.65	674.08
2X4	4.95	10.82	192.80
3X4	4.95	11.68	241.80
4X4	4.95	12.74	294.90
5X4	4.95	14.33	364.40
2X6	3.30	11.96	244.66
3X6	3.30	12.90	308.57
4X6	3.30	14.07	378.16
5X6	3.30	15.54	456.56