

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

FS17 – 450/750 V

Flexible unipolar cable, PVC insulated

EU Regulation N.305/2011 – Class Cca – s3, d1, a3 – DoP 19ICM009

CONSTRUCTION FEATURES

Conductor	Annealed bare copper class 5
Isolation	S17 quality PVC compound
Color	Black, blue, brown, gray, orange, pink, red, turquoise, violet, white, yellow/green
Marking	I.C.M. S.R.L. – FS17 – 450/750 V – Cca-s3, d1, a3

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
Min laying temperature	5 °C
Max tensile strenght	50 N/mm ²
Min bending radius	4 x \varnothing_{ext}

REFERENCE STANDARDS

CEI UNEL 35716; CEI 20-40/2-1;V1; Dir. 2014/35/UE; Dir. 2011/65/UE

USE CONDITIONS

Power cables for power supply in construction works complying with the Construction Products Regulation (CPR), with the aim of limiting the spread of fire. Suitable for fixed protected installation in lighting and control equipment for voltages up to 1000V in a.c. including or up to 750 V in d.c. to the ground for installations in pipes, channels, ducts and wiring of electrical appliances and equipment. Suitable for bundle installations in environments at greater risk in case of fire due to the high crowding density or the high displacement time in case of fire or for the high damage to animals and things such as school buildings (CEI 64-52), offices and buildings intended for civil use with a height greater than 24 meters.

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Formation	Maximum electrical resistance at 20°C	Prescribed insulation thickness	Maximum outer Ø	Nominal weight	Insulation resistance at 70°C	Current flow at 30°C in tube in air (*)
	Ohm/km	mm	mm	Kg/km	MOhm x km	A
1x1	19.5	0.7	3.0	15	0.095	12
1x1.50	13.3	0.7	3.4	20	0.082	15.5
1x2.50	7.98	0.8	4.1	30	0.077	21
1x4	4.95	0.8	4.8	45	0.062	28
1x6	3.30	0.8	5.3	60	0.050	36
1x10	1.91	1.0	6.8	108	0.049	50
1x16	1.21	1.0	8.7	165	0.039	68
1x25	0.780	1.2	10.2	260	0.039	89
1x35	0.554	1.2	11.7	350	0.034	110
1x50	0.386	1.4	13.9	500	0.033	134

(*) Calculation of the current flow carried out by considering a circuit with 3 active conductors