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

H07V-K

Flexible unipolar cable, PVC insulated

EU Regulation N.305/2011 – Class Eca – **DoP 18ICM003**

CONSTRUCTION FEATURES

Conductor	Annealed red copper class 5
Isolation	TI1 quality PVC compound
Color	Black, blue, brown, gray, orange, pink, red, turquoise, purple and white. The two colors must not be used, with the exception of the combination of yellow and green mono-colors, whose distribution must comply with 5.4.4 of the CEI EN 50525-1
Marking	I.C.M. S.R.L. – H07V-K – Eca

ELECTRICAL CHARACTERISTICS

Nominal tension U_0/U	450/750	V

MECHANICAL CHARACTERISTICS

Max operating temperature	70	°C
Max short circuit temperature	160	°C
Min operating temperature	-10	°C
Min laying temperature	5	°C
Max traction effort	50	N/mm^2
Min bending radius	4	x $\varnothing_{ext}$

REFERENCE STANDARDS

CEI EN 50525-2-31; CEI 20-40; Directive 2014/35/UE; Directive 2011/65/UE

USE CONDITIONS

Cables for installation in surface mounted or recessed pipes or similar closed systems.
Suitable for fixed protected installation in lighting and control equipment for voltages up to 1,000V in a.c. including or up to 750 V in d.c. to earth.

Formation	Maximum electrical resistance at 20°C	Prescribed insulation thickness	Average outer ∅ Lower limit	Average outer ∅ Upper limit	Nominal outer ∅	Nominal weight	Minimum insulation resistence at nominal temperature	Current flow at 30°C in tube in air (*)
	Ohm/km	mm	mm	mm	mm	Kg/km	MOhm x km	A
1x1.50	13.3	0.7	2.8	3.4	2.9	18	0.010	15.5
1x2.50	7.98	0.8	3.4	4.1	3.6	30	0.0095	21
1x4	4.95	0.8	3.9	4.4	4.2	45	0.0078	28
1x6	3.30	0.8	4.4	5.3	5.2	60	0.0068	36
1x10	1.91	1.0	5.7	6.8	6.0	108	0.0065	50
1x16	1.21	1.0	6.7	8.1	7.2	165	0.0053	68
1x25	0.740	1.2	8.4	10.2	9.2	260	0.0050	89
(*) Calculation of the current flow carried out by considering a circuit with 3 active conductors								