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

H07V2-K

Flexible unipolar cable, PVC insulated for maximum conductor temperature of 90°C

EU Regulation N.305/2011 – Classe Eca – **DoP 18ICM004**

CONSTRUCTION FEATURES

Conductor	Annealed red copper class 5
Isolation	TI3 quality PVC compound
Color	Black, blue, brown, gray, orange, pink, red, light blue, purple, white, yellow, green, yellow / green.
Marking	I.C.M. S.R.L. – H07V2-K – Eca

ELECTRICAL CHARACTERISTICS

Nominal tension U_0/U	450/750	V

MECHANICAL CHARACTERISTICS

Max operating temperature	90	°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

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

USE CONDITIONS

Cable for internal wiring and fixed installation protected inside equipment and in lighting devices. Maximum temperature of the conductor in normal use conditions 90°C. Not to be used in contact with objects with temperatures above 85°C. Not suitable for fixed installations in distribution systems, except when limited to a maximum conductor temperature of 70°C. Suitable for fixed protected installation in or on lighting or control devices for voltages up to 1,000V in a.c. and up to 750V in d.c. in relation to the 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
(*) Calculation of the current flow carried out by considering a circuit with 3 active conductors								