

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

H05V2-K

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

EU Regulation N.305/2011 – Class Eca – DoP 18ICM002

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 and any bicolor combination.
Marking	I.C.M. S.R.L. – H05V2-K – Eca

ELECTRICAL CHARACTERISTICS

Nominal tension U_0/U	300/500 V
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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.

Formation	Maximum electrical resistance at 20°C	Prescribed insulation thickness	Average outer \varnothing Lower limit	Average outer \varnothing Upper limit	Nominal outer \varnothing	Nominal weight	Minimum insulation resistance at nominal temperature	Current flow at 30°C in tube in air (*)
	Ohm/km	mm	mm	mm	mm	Kg/km	MOhm x km	A
1x0.50	39	0.6	2.1	2.5	2.2	9	0.013	3
1x0.75	26	0.6	2.2	2.7	2.3	10	0.011	6
1x1	19.5	0.6	2.4	2.8	2.5	15	0.010	10

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