

H05VV-F

Flexible multipolar cable, PVC insulated under medium PVC jacket

EU Regulation N.305/2011 – Class Eca – DoP 18ICM006

CONSTRUCTION FEATURES

Conductor	Annealed red copper class 5
Isolation	TI2 quality PVC compound
Color	Bipolar: Blue - Brown; Tripolar: Brown - Black - Gray or Yellow/Green - Blue - Brown; Four-pole: Blue - Brown - Black - Gray or Yellow/Green - Brown - Black - Gray; Five-pole: Blue - Brown - Black - Gray - Black or Yellow/Green - Blue - Brown - Black - Gray;
Twist	Roped with a suitable step
Jacket	TM2 quality PVC compound
Color	Black, White or Gray
Marking	I.C.M. S.R.L. – H05VV-F – formation – Eca – CE + metric marking

ELECTRICAL CHARACTERISTICS

Nominal tension U₀/U	300/500 V
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MECHANICAL CHARACTERISTICS

Max operating temperature	60 °C
Max short circuit temperature	150 °C
Min operating temperature	-10 °C
Min laying temperature	5 °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

CEI EN 50525-1; CEI EN 50525-2-11; CEI EN 560565-2; Directive 2014/35/UE; Directive 2011/65/UE

USE CONDITIONS

Cables for use in domestic premises and offices, for applications and domestic appliances for ordinary service, including damp rooms (e.g. vacuum cleaners, washing machines, dryers and refrigerators); outdoor use for temporary periods of short duration. The maximum operating temperature of the conductor of 60°C takes into account the recommendations indicated for use. However, if the cables are to be used inside equipment or the like where the absence of skin contact can be guaranteed, then the cables are suitable for a maximum operating temperature of the conductor of 70°C.

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

Formation	Maximum electrical resistance at 20°C	Prescribed insulation thickness	Prescribed jacket thickness	Average outer Ø Lower limit	Average outer Ø Upper limit	Nom. outer Ø	Nom. weight	Minimum insulation resistance at nominal temperature	Current flow at 30°C in tube in air (*)
	Ohm/km	mm	mm	mm	mm	mm	Kg/km	MOhm x km	A
2X1	19.5	0.6	0.8	5.9	7.5	6.3	63	0.010	10
2X1.50	13.3	0.7	0.8	6.8	8.6	7.3	85	0.010	16
2X2.50	7.98	0.8	1.0	8.4	10.6	9.0	135	0.0095	20
3X1	19.5	0.6	0.8	6.3	8.0	6.9	75	0.010	10
3X1.50	13.3	0.7	0.9	7.4	9.4	8.0	104	0.010	16
3X2.50	7.98	0.8	1.1	9.2	11.4	10.0	170	0.0095	20
4X1	19.5	0.6	0.9	7.1	9.0	7.5	95	0.010	10
4X1.50	13.3	0.7	1.0	8.4	10.5	8.9	134	0.010	16
4X2.50	7.98	0.8	1.1	10.1	12.5	11.0	205	0.0095	20

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