

Millimetric Mono-conductor

Class 2

H05V-R / H07V-R / 6491X

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Description

The Millimetric Mono-conductor is a soft annealed Class 2 cable insulated with polyvinyl chloride (PVC).

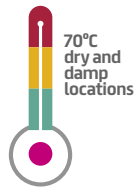
Standard Specifications

The Millimetric Mono-conductors are built based on the following:

- Standards: **BS EN 50525-2-31. IEC 60228 and 60227.**
- Certificate: **CIDET # 05481.**

Features

- The Millimetric Mono-conductor is designed to operate at 450/750 V at 70°C max temperature in dry and humid environments.
- The PVC jacket is fire retardant capable not to propagate fire when exposed to flames.



- The conductor is manufactured from 1.5mm² up to 240 mm². The 50mm² and larger conductors are built with black UV insulation resistant (SUN RES).
- The metal core is manufactured in Class 2 cable allowing medium mobility and strong terminal holding to ensure low contact resistance.
- Complies with RoHS (*Restriction of Hazardous Substances*) regulation.

Applications

- The Millimetric Mono-conductor is widely used to connect residential, commercial and industrial circuits for illumination, power outlets and general supplies operating at 70°C max in humid or wet locations.
- The 50 mm² or larger gauge conductors can be used outdoors thanks to their black ultraviolet (UV) resistant insulation.



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Technical Information

Nominal dimensions y characteristics

The conductor operating amperage is defined by the installation conditions and operating temperatures identified in TABLE B.52.4 of IEC 60364-5-52 latest version

Gauge	Wires	Insulation Thickness		External Diameter		Metal Weight	Weight	DC Max. @ 20°C Resistance
		in.	mm.	in.	mm.			
mm ²	#	in.	mm.	in.	mm.	Kg / Km	Kg / Km	Ω/km
1,50	7	0,0275	0,6985	0,1174	2,9820	12,95	20,12	12,1
2,50	7	0,0315	0,8001	0,1424	3,6168	21,11	31,34	7,41
4	7	0,0315	0,8001	0,1634	4,1505	33,86	46,26	4,61
6	7	0,0315	0,8001	0,1855	4,7127	50,80	65,38	4,61
10	7	0,0393	0,9982	0,2379	6,0417	86,29	109,87	1,83
16	7	0,0393	0,9982	0,2791	7,0884	137,29	166,38	1,15
25	19	0,0472	1,1989	0,3717	9,4409	217,20	263,03	0,727
35	19	0,0472	1,1989	0,4206	10,6845	301,34	354,67	0,524
50	19	0,0551	1,3995	0,4898	12,4410	408,01	482,40	0,387
70	19	0,0551	1,3995	0,5659	14,3738	589,18	677,86	0,268
95	19	0,0630	1,6002	0,6630	16,8402	818,14	937,53	0,193
120	37	0,0630	1,6002	0,6659	16,9127	1035,27	1156,11	0,153
240	37	0,0866	2,1996	0,9422	23,9312	2100,86	2337,47	0,0754

Note: The values given may vary according to the manufacturing tolerances



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