

Copper, Flexible, Non-Halogenated Cable 750V – Safetymax 750V

Conductor

Made of electrolytic bare copper wires, soft temper, stranding class 4 (1,50 a 6,00 mm²) and class 5 (10,00 a 300,00 mm²).

Insulation

LSHF-A - Thermoplastic polyolefin compound 70 °C, non-halogenated with low smoke emission, with special characteristics regarding the flame-resistance and self-extinguishing of fire.

Identification

Black, Light Blue, White, Red, Green, Yellow.

Note: Other colors, on request.

Maximum Operational Temperatures

- 70° in continuous operation
- 100° in overload
- 160° in short circuit

Application

SafetyMax cables are non-halogenated and have low smoke and toxic gas emission and non-fire propagation characteristics. Used in installations in places with high density of occupation of people and difficult conditions of escape, such as: Cinemas, Shopping Centers, Restaurants, Supermarkets, Hospitals, Train / Subway, Educational / Sports / Fair Establishments, as well as in areas of electronics and computing

Applicable Standards

- ICEA S-95-658: Standard for Power Cables Rated 2000 Volts or Less for the Distribution of Electrical Energy
- NEMA WC-70: Standard for Power Cables Rated 2000 Volts or Less for the Distribution of Electrical Energy
- NEMA WC-7: Standard for Cross-Linked-Thermosetting-Polyethylene-Insulated Wire and Cable for the Transmission and Distribution of Electrical Energy
- IEC 60754-2: Test on Gases Evolved during Combustion of Materials from Cables – Part 2: Determination of the Amount of Halogen Acid Gas
- ASTM B3: Standard Specification for Hard-Drawn Copper Wire
- ASTM B8: Standard Specification for Concentric-Lay-Stranded Copper Conductors

Dimensional Datasheet

Size (AWG/Kcmil)	Conductor Diameter (inch)	Insulation Thickness (inch)	Outer Diameter (inch)
16	0.058	0.029	0.111
14	0.073	0.029	0.126
12	0.093	0.033	0.152
10	0.117	0.033	0.176
9	0.133	0.033	0.191
8	0.149	0.033	0.207
7	0.167	0.041	0.240
6	0.188	0.041	0.260
5	0.211	0.041	0.283
4	0.236	0.041	0.307
3	0.266	0.049	0.351
2	0.298	0.049	0.382
1	0.334	0.049	0.417
1/0	0.377	0.057	0.474
2/0	0.421	0.057	0.516
3/0	0.473	0.057	0.566
4/0	0.532	0.065	0.639
250	0.580	0.065	0.685
300	0.634	0.073	0.754
350	0.683	0.073	0.800
400	0.733	0.082	0.865
450	0.781	0.082	0.911
500	0.826	0.090	0.970
550	0.868	0.090	1.001
600	0.900	0.098	1.057