

Ultravolt SAFE PLUS

70° HEAT RESISTANT

99.97% TRUEPURE COPPER

EVERYDAY SAFETY, BUILT INTO EVERY WIRE

Designed for everyday home wiring, SafePlus combines dependable performance with essential fire protection. Its flame-retardant, low-smoke and low-halogen insulation help reduce fire propagation, improve visibility and support safer evacuation.

WHY CHOOSE ULTRAVOLT SAFEPLUS?

Flame-Retardant Protection

Self-extinguishing FR-LSH LF insulation helps resist flame propagation and prevents fire from spreading to other areas.

Low Smoke, Safer Exit.

Reduced smoke and toxic or corrosive gases help maintain better visibility and air quality during a fire.

Energy-Efficient Performance

TruePure Copper with 99.97% purity and Class 2 built, keeps electrical resistance low, and delivers power more efficiently.*

Lead-Free Insulation

RoHS and REACH-compliant lead-free insulation makes the wire safer for installers, occupants and the environment.

KEY PRODUCT FEATURES

70°C	Low Toxic Gases	LF	Anti-Pest	99.97% Cu
Heat Resistant	Low Smoke Safer Escape	Lead-Free Insulation	Termite & Rodent Free	TruePure Copper

*Higher copper content and better energy efficiency is valid for sizes with Class 2 conductor.

Available Sizes: 0.75, 1.0, 1.5, 2.5, 4.0, 6.0 sq.mm **Available Colours:**

CONDUCTOR **Bare Annealed Copper** 99.97% purity	**CONDUCTOR CLASS** **Class 2(1.0,1.5,2.5) & 5(0.75,4.0,6.0)** Stranded & flexible	**INSULATION** **FR-LSH LF PVC Type A/ Type D** Flame-retardant, low smoke & halogen lead-free
RATED VOLTAGE **1100 V** Suitable for all domestic circuits	**TEMP. RATING** **70°C Continuous Rating**	**PACK LENGTHS** **90 m** Retail coil

Applicable Certifications:

Quality Management System Certification

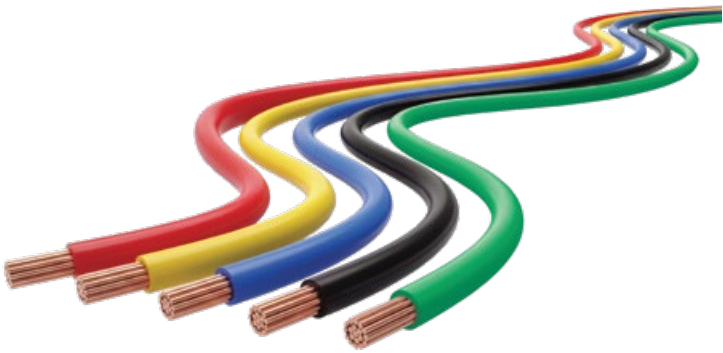
European Conformity

IS : 694
CM/L: 7100158506

Product Certifications

REACH compliant RoHS compliant

Human Safety / Environment Safety



FIRE PERFORMANCE — TESTED VALUES

Test Parameter	Standard	Requirement
Halogen Content	IS 10810 P-59 / IEC 60754-1	≤ 20%
Smoke Density	IS 13360-6-9	≤ 60%
Oxygen Index	IS 10810 P-58 / ASTM D2863	≥ 29%
Temperature Index	IS 10810 P-64 / ASTM D2863	≥ 250°C

TECHNICAL SPECIFICATION

Item Code	Nominal Conductor Area	Number and Nominal Diameter of Strands#	Class of Conductor	Nominal Thickness of Insulation	Maximum DC Conductor Resistance at 20°C per kilometer	Current Carrying Capacity / 2 Cables Single Phase**	
						In Conduit Trunking	Unenclosed
UWFCAI5HCX7501--090X	0.75 Sq.mm	24 N/0.20 mm	Class-5	0.6 mm	26.0 Ω/km	7 A	8 A
UWFCAI2HC1X001--090X	1.0 Sq.mm	14 N/0.30 mm	Class-2	0.7 mm	18.1 Ω/km	12 A	13 A
UWFCAI2HC1X501--090X	1.5 Sq.mm	22 N/0.30 mm	Class-2	0.7 mm	12.1 Ω/km	15 A	17 A
UWFCAI2HC2X501--090X	2.5 Sq.mm	36 N/0.30 mm	Class-2	0.8 mm	7.41 Ω/km	20 A	23 A
UWFCAI5HC4X001--090X	4.0 Sq.mm	56 N/0.30 mm	Class-5	0.8 mm	4.95 Ω/km	26 A	29 A
UWFCAI5HC6X001--090X	6.0 Sq.mm	84 N/0.30 mm	Class-5	0.8 mm	3.30 Ω/km	31 A	37 A

** Current carrying capacity values are calculated for 70°C from IEC 60287-1-1

The numbers of strands and strand diameter are for reference only. Governing criteria shall be max. DC resistance requirement as per IS 8130.