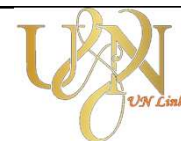




UN ink 1.5Sqmm FR-LS House Wire Technical Data Sheet



Feature	Specification	Standard/Note
Nominal Cross Sectional Area	1.0 sq mm	
Conductor Material	Annealed bare electrolytic copper, Class 5 flexibility	IS 8130
Voltage Grade	Up to 1100 V (650/1100 V)	IS 694
Insulation Material	FRLS (Flame Retardant Low Smoke) PVC Type ST2	IS 5831
Nominal Insulation Thickness	~0.6 mm	
Overall Diameter (Approx.)	~3.0 mm	Varies slightly by brand
Max. Conductor Resistance	Max 19.5 Ohm/km at 20°C	IS 8130
Current Rating (Amps)	14A (in conduit/trunking) to 16A (clipped direct)	Varies by installation method
Max. Operating Temperature	70°C (standard PVC) or higher for HR grades	
Short Circuit Temperature	160°C to 250°C (depending on insulation type, e.g., XLPE vs PVC)	
Oxygen Index	Minimum 29% to 31%	ASTM-D 2863
Temperature Index	Minimum 250°C	ASTM-D 2863
Smoke Density Rating	Maximum 60%	ASTM-D 2843
Acid Gas Generation	Maximum 20%	IEC 60754-1
Standard Packing	90 or 100 meter coils	