

FINOLEX CABLES LTD., GOA.
TECHNICAL DATA SHEETS

Sr. No.	Description (Cable Size in SQmm)	1.0	1.5	2.5	4.0	6.0
1	General					
1.1	Name of Manufacture	Finolex Cables Ltd, Goa.				
1.2	Type of Cable	FR-LSH PVC Insulated Single Core Unsheathed Cable				
1.3	Voltage Grade	1100 Volts				
1.4	Standards Applicable	IS – 694 : 2010 with latest Amendments				
2	Conductor					
2.1	Material	Bright Plain Annealed High Conductivity Copper Conductor as per Class 5 of IS 8130 : 2013.				
2.2	Shape	Circular				
2.3	Conductor Construction (Nos./mm)	28/0.203	28/0.245	48/0.245	56/0.30	84/0.30
2.4	Nom. Cross Sectional Area (Sq. mm)	1.0	1.5	2.5	4	6
2.5	Max. Conductor Resistance @ 20°C (Ω/kms)	19.50	13.30	7.98	4.95	3.30
2.7	Maximum continuous Conductor temp.	70 °C				
3	Electrical Properties					
3.1	Maximum Current Carrying Capacity (Amps)	11	13	18	24	31
3.2	Volume Resistivity at 27 °C	Min.1 x 10 ¹² Ω-cm				
3.3	Volume Resistivity at rated temp.(70 °C)	Min.1 x 10 ⁹ Ω-cm				
3.4	High Voltage Test at room temp.3 kV ac for 5 min.	Should Withstand				
4	Insulation	TYPE-D as per IS 5831 : 1984				
4.1	Material	FR-LSH PVC				
4.2	Insulation Colors	As requested by customer				
4.3	Nom. Thickness (mm)	0.60	0.60	0.70	0.80	0.80
4.4	Approx. Cable Diameter (mm)	2.44	2.74	3.34	3.94	4.55
5	Physical Properties for Insulation	As per IS 5831 : 1984				
5.1	Min. Tensile Strength (N/mm ²)	Minimum 10.0 N/mm ²				
5.2	Min. Elongation at Break (%)	Minimum 150%				
6	FR Properties for Insulation					
6.1	Flammability Test	Burning period after removal of Flame shall not exceed 60 sec & unaffected portion from the lower edge of the top clamp shall be at least 50 mm				
6.2	Critical Oxygen Index	Minimum 29%				
6.3	Temperature Index	The minimum measured value of temperature Index shall be 250°C at which Oxygen Index is 21%				
7	Additional FR-LSH Properties for Insulation	Applicable for FR-LSH Insulated Un-Sheathed Cables only				
7.1	Halogen Acid Gas Evolution	The level of Halogen Acid Gas evolved shall not exceed 20% by weight				
7.2	Smoke Density Rating	Maximum 60%				



For,

Finolex Cables Ltd, Goa.

