

FINOLEX CABLES LIMITED, URSE, PUNE.
GENERAL TECHNICAL PARTICULARS

Sr. No.	Description	0.50 Sq.mm	0.75 Sq. mm	1.00 Sq. mm	1.50 Sq. mm	2.50 Sq. mm	4.0 Sq. mm	6.0 Sq. mm	10.0 Sq. mm	16.0 Sq. mm	25.0 Sq. mm	35.0 Sq. mm	50.0 Sq. mm	70.0 Sq. mm	95.0 Sq. mm
1	GENERAL														
1.1	Name of Manufacture	FINOLEX CABLES LIMITED, URSE, PUNE, INDIA.													
1.2	Type of Cable	PVC INSULATED UNSHEATHED SINGLE CORE FLEXIBLE CABLES													
1.3	Voltage Grade	1100 VOLTS													
1.4	Standards Applicable	IS 694 : 2010													
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	Nom. Cross Sectional Area (Sq. mm)	0.50	0.75	1.0	1.5	2.5	4.0	6.0	10.0	16.0	25.0	35.0	50.0	70.0	95.0
2.4	Max. Conductor Resistance @ 20°C (Ω/kms)	39.00	26.00	19.50	13.30	7.98	4.95	3.30	1.91	1.21	0.780	0.554	0.386	0.272	0.206
2.5	Maximum continuous Conductor temp.	70 °c													
3	INSULATION	TYPE-D as per IS 5831 : 1984													
3.1	Material	FR or FR-LSH PVC													
3.2	Insulation Colors	As requested by customer													
3.3	Nom. Thickness mm	0.60	0.60	0.60	0.60	0.70	0.80	0.80	1.00	1.00	1.20	1.20	1.40	1.40	1.60
3.4	Approx. Cable Diameter (mm)	2.00	2.30	2.45	2.75	3.50	4.10	4.75	6.00	7.10	8.80	10.10	12.50	13.90	15.90
4	Physical Properties for Insulation	as per IS 5831 : 1984													
4.1	Min. Tensile Strength (N/mm ²)	Minimum 10.0 N/mm ²													
4.2	Min. Elongation at Break (%)	Minimum 150%													
5	FR Properties for Insulation														
5.1	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 50mm													
5.2	Critical Oxygen Index	Minimum 29%													
5.3	Temperature Index	Minimum 21% at a Temperature of 250°C													
6	Additional FR-LSH Properties	Applicable for FR-LSH Insulated Un-Sheathed Cables only													
6.1	Halogen Acid Gas Evolution	The level of Halogen Acid Gas evolved shall not exceed 20% by weight													
6.2	Smoke Density Rating	Maximum 60%													



For,
Finolex Cables Ltd. Urse, Pune.