



GRANDLAY CABLES

SINCE 1953

FR Wires

SECURING YOUR SPACE



Grandlay Flame Retardant low smoke and FR PVC insulated ISI marked wires meet the requirement of IS: 694:201. Single core up to 630 sq. mm & multicore up to 300 sq. mm.



IS: 694
IS: 1554-PT-1
IS: 7098-PT-1
IS: 7098-PT-2

FIA

TAC

GRANDLAY- FR FLAME RETARDANT PVC INSULATED WIRES

GRANDLAY FR wires & cables are insulated with a FLAME RETARDANT(FR) pvc compound, specially formulated by one of our group companies to provide added safety, this fr pvc compound has a high oxygen and temperature index, these properties help in restricting the spread of fire even at very high temperatures, this special compound also offers high insulation resistance and dielectric strength.

GRANDLAY cables carries ISI standardization mark quality certification which assures complete safety, reliability & consistency in performance, look for the company name, size, voltage grade and logo printed on the wire insulation every meter.

HOW WE ARE DIFFERENT THAN OTHERS

PURITY	Our copper has more than 102% conductivity which means reduction in electricity bills.
UNIFORMITY	We have the most advanced in-house wire drawing, stranding & bunching facilities to give a uniform lay and smooth finish of the conductor.
BETTER FLEXIBILITY	Uniform annealing of copper provides more flexibility.
DOUBLE INSULATED	Thin coloured layer is only on the surface for colour identification. Thick layer of Natural virgin pvc in underneath which gives improved insulation resistance value.
ECCENTRICITY	Automatic self-centering head coupled with online diameter controller maintains conductor perfectly in the center of pvc insulation which prevent short circuits occurrences due to uneven thickness and eccentricity of insulation.
CONSISTENCY	100% wires pass through spark tester to withstand high voltage stresses of 9000 volts to give consistent quality free of foreign particles through out.
CURRENT CARRYING CAPACITY	Due to low conductor resistance, current carrying capacity is more .

TECHNICAL DATA

Nominal Cross Sectional Area of The Conductor	Nos./Nominal Dia. of Strand	Nominal Thickness of Insulation	Approx Overall Dia.	Max. Conductor Resistance	Current Rating (AMPS.)	
					2 Wires, Single Phase#	
SQ.MM	No./MM	MM	MM	Ω/KM at 20°C	In Conduit/ Trunking	Clipped Directly to Surface or On Cable Tray
0.75	**24/.2	0.6	2.4	26.0	7	8
1.0	*14/.3	0.7	2.7	18.1	11	12
1.5	**22/.3	0.7	3.0	12.1	13	16
2.5	*36/.3	0.8	3.7	7.41	18	22
4.0	**56/.3	0.8	4.2	4.95	24	29
6.0	**84/.3	0.8	4.8	3.30	31	37

Note : Std. Colours - Red, Yellow, Blue, Black & Green
Normal Packing Length - 90 Mtrs.

* Conductor : Class 2 As per IS:8130.2013 Conforms to IS:694.2010. ISI Licence No. CM/L-9675508

** Conductor Class 5 As Per IS 8130. 2013

As Per IS:3961 (Part V) - 1968

ADDITIONAL FR PROPERTIES

FR

TEST	SPECIFICATION	SPECIFIED VALUES
Critical Oxygen Index	ASTM-D 2863 & IS 694	Oxygen Index Minimum 29%
Temperature Index	ASTM-D 2863 & IS 694	Minimum Temperature Index 250°C