

GRANDLAY

WIRES & CABLES

Secure Your Life..



FRLS

FLAME RETARDANT LOW SMOKE

Manufactured under strict quality control for quality conscious customers using the latest technology and safety standards which makes it reliable and durable for domestic and industrial use.



 IS: 694
IS: 1554-PT-1
IS: 7098-PT-1
CML NO : 09675508

FIA
FIRE INSURANCE
APPROVED

TAC
TARIFF ADVISORY
COMMITTEE

GRANDLAY- FLAME RETARDANT LOW SMOKE WIRES (FRLS)

In case of fire, the casualties occur due to suffocation and inhaling toxic fumes/gases rather than burns, moreover the dense black smoke reduce visibility, thereby making the evacuation & rescue operation nearly impossible as such the need for FRLS wires arose.

SALIENT FEATURES :

- SUPERIOR FIRE RETARDANT PROPERTIES
- SELF EXTINGUISHING
- EMIT NON TOXIC FUMES
- EMIT LESSER AMOUNT OF NON CORROSIVE SMOKE
- MOISTURE RESISTANT
- LOW OXYGEN ENTERAPMENT

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	3.1	12.1	13	16
2.5	*36/3	0.8	3.8	7.41	18	22
4.0	**56/3	0.8	4.3	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:8130-1984 CONFORMS TO IS:694-1990. ISI LICENCE NO.
 ** CONDUCTOR CLASS 5 AS PER IS 8130-1984 CM/L-9675508
 # AS PER IS : 3961 (PART V) - 1968

SPECIAL TESTS ON GRANDLAY WIRES

TEST	FUNCTION	SPECIFICATION	SPECIFIED VALUES	OBSD. VALUES
CRITICAL OXYGEN INDEX	TO DETERMINE PERCENTAGE OF OXYGEN REQUIRED FOR SUPPORTING COMBUSTION AT ROOM TEMPERATURE OF INSULATING MATERIAL.	ASTM-D-2863 & IS 694	OXYGEN INDEX : MINIMUM 29%	MORE THAN 32
TEMP. INDEX	TO DETERMINE AT WHAT TEMP. NORMAL OXYGEN CONTENT OF 21% IN AIR WILL SUPPORT COMBUSTION OF INSULATING MATERIAL.	ASTM-D-2863 & IS 694	TEMPERATURE INDEX : MINIMUM 250°C	AROUND 285°C
SMOKE DENSITY	TO DETERMINE THE VISIBILITY (LIGHT TRANSMISSION) UNDER FIRE OF INSULATING MATERIAL.	ASTM-D-2863	LIGHT TRANSMISSION : MINIMUM 40%	AROUND 45%
ACID GAS GENERATION	TO ASCERTAIN THE AMOUNT OF HYDROCHLORIC ACID GAS EVOLVED FROM PVC INSULATION OF WIRE UNDER FIRE CONDITIONS.	IEC 754-1 & IS 694	HYDROCHLORIC ACID GAS RELEASED : 20% MAX.	AROUND 15%

AN ISO 9001 : 2008 COMPANY

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SINCE 1953

All information given here is in good faith. GRANDLAY shall not be liable for any damages arising out of incorrect use or interpretation. The company reserves the right to change any of the above specifications without prior notice.

www.grandlaycable.com

Dealer / Distributor