



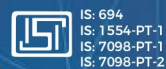
GRANDLAY CABLES

SINCE 1953

LT XLPE/ PVC Power Cables



Grandlay XLPE Cables with aluminium & copper conductor manufactured as per IS: 7098 (Part-1) and IS: 1554 of product range, single core up to 1000 sq. mm & multi cores up to 630 sq. mm.



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

FIA

TAC

LT XLPE/PVC CABLES

Grandlay has an experience of manufacturing LT Cables for almost six decades, we are one of the most reliable and trusted brands in the nation. Grandlay Wires & Cables has equipped itself with a modernized plant in Murthal, Haryana. We manufacture PVC/XLPE insulated electrical cables for working voltage upto and including 1100 volts conforming to IS: 1554 / IS: 7098 (part 1).

PRODUCT RANGE:

Single-core Cables upto 1000 sq. mm

Multicore Cables upto 630 sq. mm

TECHNICAL PARAMETERS:

- APPROVALS: IS: 1554 / IS: 7098 (part 1), IS: 7098 (part 2) FIA/TAC
- VOLTAGE GRADE: Up to 1100 KV, 1.9/3.3 KV
- CONDUCTOR: Aluminium / Copper conductors conform to IS:8130
- INSULATION: XLPE insulation of power conductors specify IS:7098 (Part-1)/ PVC Insulation specify IS: 1554 (Part 1)
- INNER SHEATH: PVC Tape-Wrapped/ PVC extruded.
- ARMOURING: Galvanized Steel - round wire/ flat strip.
- OUTER SHEATH: PVC/ Flame Retardant/ Flame Retardant Low Smoke/ Zero Halogen.
- DRUM LENGTHS: 500-1000 m. (Tolerance: +/- 5%)

SELECTION OF CABLES

Power Cables are generally selected considering the application. However, the following factors are important for the selection of a suitable cable required to transport electrical energy from one end to the other:

- Maximum operating voltage
- Insulation Level
- Load to be carried
- Possible overloading during & magnitude.
- Route length and voltage drop.
- Mode of installation environment such as ambient & ground temperature as well as chemical & physical properties of soil.
- Flame retardant properties.

The standards adopted are after duly considering the geographical/ climatically conditions and general applications of power for utilities, distribution and generation purpose.

A.C. CURRENT RATING OF ALUMINIUM CONDUCTOR CABLES INSULATED WITH XLPE, PVC (FOR COMPARISON)

Nominal area of conductor in Sq.mm	Single core				Multicore (3,3½ or 4 core)			
	In ground (Amps.)		In Air (Amps.)		In ground (Amps.)		In Air (Amps.)	
	XLPE	PVC	XLPE	PVC	XLPE	PVC	XLPE	PVC
10	59	51	53	47	57	46	67	40
16	76	66	73	64	78	60	70	50
25	98	86	115	84	95	76	99	70
35	117	100	140	105	116	92	117	86
50	135	120	170	130	140	110	142	105
70	168	140	210	155	170	135	179	130
95	204	175	255	190	200	165	221	155
120	230	195	300	220	225	185	258	180
150	265	220	342	250	255	210	294	205
185	295	240	385	290	285	235	339	240
240	340	270	450	335	326	275	402	280
300	390	295	519	380	370	305	461	315
400	450	325	605	435	435	335	542	375
500	550	345	700	480	481	370	624	425
630	555	390	809	550	537	405	723	480