

LT POWER & CONTROL CABLES

Features

- » Dielectric losses are very small.
- » Jointing and Termination is easy.
- » Higher short circuit rating of 250°C as against 160°C for PVC
- » Has better resistance to most chemicals, oils, acids, etc.
- » Higher current carrying capacity.
- » Light in weight

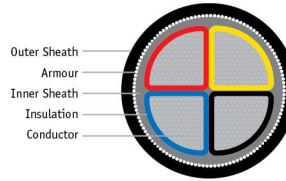
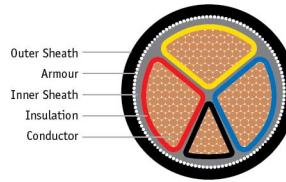
Application

- » The Cables are suitable for use on AC single phase or three phase (earthed or unearthed) systems for rated Voltage up to 1100 Volts.

Technical Data

1.1 kV (A.C) & 1.5 kV (D.C) to Earth

- » Construction: 3.5 and 4 cores AL conductor, XLPE insulated, galvanised steel strip / wire armoured cables as per IS 7098 Part - 1.
- » Conductor: AL up to 10 Sq. mm conductor are solid Cl.1 as per IS-8130. & above 10 Sq. mm conductor are stranded compact shape Cl. 2 as per IS-8130
- » Insulation : Cross linked polyethylene (XLPE)
- » Inner Sheath : PVC / PVC tape as per IS 7098 (P-1)
- » Outer Sheath : PVC Type ST-2 as per IS 5831 (FR/FRLS Type)
- » Core Color : Red, yellow, blue, black
- » Armouring : Single armouring of galvanised steel strip / wire
- » Cable Color : Black (Other Colours available as per requirement)



SPECIFICATION OF UNARMoured & ARMoured LT POWER CABLES

3.5 CORE XLPE INSULATED PVC SHEATHED UNARMoured & ARMoured POWER CABLES OF 1100 V GRADE GENERALLY CONFORMING TO IS 7098 (PART-1) WITH ALUMINIUM SHAPED CONDUCTOR											
Nominal size of conductor	Nominal Thickness of XLPE Insulation	Min. Thickness of PVC Inner Sheath	Unarmoured		Formed wire/ Strip Armoured			Round Wire Armoured Cable			Current Rating in Air
			Nominal Thickness of PVC Outer sheath	Approx. Overall Diameter of Cable	Nominal Dimension of GI Flat Strip	Min. Thickness of PVC Outer Sheath	Approx. Overall Diameter of Cable	Nominal Dimension of GI Round Wire	Min. Thickness of PVC Outer Sheath	Approx. Overall Diameter of Cable	
Sq. mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	Amps
25/16	0.9/0.7	0.3	2	22	0.8 x 4.0	1.4	23	1.6	1.4	25	99
35/16	0.9/0.7	0.3	2	24	0.8 x 4.0	1.4	25	1.6	1.4	27	117
50/25	1.0/0.9	0.3	2	27.5	0.8 x 4.0	1.4	28	1.6	1.56	30	140
70/35	1.1/0.9	0.4	2.2	31	0.8 x 4.0	1.56	32	2	1.56	35	176
95/50	1.1/1.0	0.4	2.2	35	0.8 x 4.0	1.56	35	2	1.56	38	221
120/70	1.2/1.1	0.4	2.2	37.5	0.8 x 4.0	1.72	39	2	1.72	42	258
150/70	1.4/1.1	0.5	2.4	41	0.8 x 4.0	1.72	43	2	1.88	46	294
185/95	1.6/1.1	0.5	2.6	46.5	0.8 x 4.0	1.88	47	2.5	2.04	51	339
240/120	1.7/1.2	0.6	2.8	52.5	0.8 x 4.0	2.04	53	2.5	2.2	56	402
300/150	1.8/1.4	0.6	3	56	0.8 x 4.0	2.2	57	2.5	2.36	60	461

4 CORE XLPE INSULATED, UNARMoured & GALVANISED STEEL STRIP / WIRE ARMoured CABLES GENERALLY CONFORMING TO IS 7098 (PART-1) WITH ALUMINIUM CONDUCTOR											
Nominal size of conductor Sq. mm	Nominal Thickness of insulation (mm)	Min. Thickness of PVC Inner Sheath (mm)	Unarmoured		Formed wire/ Strip Armoured			Round Wire Armoured Cable			Current Rating in Air Amps
			Nominal Thickness of PVC Outer sheath (mm)	Approx. Overall Diameter of Cable (mm)	Nominal Dimension of GI Flat Strip (mm)	Min. Thickness of PVC Outer Sheath (mm)	Approx. Overall Diameter of Cable (mm)	Nominal Dimension of GI Round Wire (mm)	Min. Thickness of PVC Outer Sheath (mm)	Approx. Overall Diameter of Cable (mm)	
4	0.7	0.3	1.8	16	N/A	N/A	N/A	1.4	1.24	18	30
6	0.7	0.3	1.8	17	N/A	N/A	N/A	1.4	1.24	19	40
10	0.7	0.3	1.8	19	N/A	N/A	N/A	1.4	1.4	21	53
16	0.7	0.3	1.8	20	0.8 x 4.0	1.4	20	1.6	1.4	22	70
25	0.9	0.3	2	24	0.8 x 4.0	1.4	24	1.6	1.4	26	99
35	0.9	0.3	2	26	0.8 x 4.0	1.4	27	1.6	1.4	28	117
50	1	0.3	2	29	0.8 x 4.0	1.56	30	1.6	1.56	32	140
70	1.1	0.4	2.2	34	0.8 x 4.0	1.56	34	2	1.56	37	176
95	1.1	0.4	2.2	37	0.8 x 4.0	1.56	37	2	1.72	40	221
120	1.2	0.5	2.4	41	0.8 x 4.0	1.72	41	2	1.88	44	258
150	1.4	0.5	2.6	45	0.8 x 4.0	1.88	46	2.5	2.04	49	294
185	1.6	0.5	2.8	50	0.8 x 4.0	2.04	51	2.5	2.2	54	339

LT POWER & CONTROL CABLES



Addison[®]
The Safe Connection
ELECTRIC WIRES & CABLES



ISO 9001:2015
ISO 14001:2015
ISO 45001:2018

R & B
APPROVED