



Cable Construction

Conductor : Stranded Compact Circular Aluminium as per Class 2 of IS 8130

Conductor Screening : Extruded Semiconductor Compound

Insulation Material : XLPE (Cross linked Polyethylene)

Insulation Screening : Extruded Semiconducting Compound

Water blocking : Water Swellable Tape

Metallic Sheath : Corrugated Aluminium Sheath followed by Anit corrosive layer

Outer Sheath : Extruded PE as per IS 7098-3

Standard : IS 7098 Part 3

Voltage Grade : 38/66 (E)

Cable Technical Data

Table 1 : Dimensions

Nominal size of conductor (sq.mm)	Nominal insulation thickness (mm)	Min. Aluminium Sheath thickness (mm)	Nominal Outersheath thickness (mm)	Approx. overall diameter (mm)
95	11	1.8	2.52	65
120	11	1.8	2.52	66
150	11	1.8	2.52	67
185	11	1.8	2.52	68
240	11	1.9	2.68	70
300	11	1.9	2.68	71
400	11	2.0	2.84	74
500	11	2.1	2.84	76
630	11	2.2	3	80

Table 2 : Electrical Parameters

Nominal size of conductor (sq.mm)	Trefoil SPB/CB Aluminium Ground (Amp)	Trefoil SPB/CB Aluminium Air (Amp)	Flat SPB/CB Aluminium Ground (Amp)	Flat SPB/CB Aluminium Air (Amp)	Fault rating of Aluminium sheath (kA/1 sec)	Maximum capacitance (µf/km)	Reactance (Ohms/km)	Conductor short CKT rating (kA/1 sec)
95	205	265	205	295	31.5	0.14	0.143	8.98
120	230	305	235	340	31.5	0.15	0.137	11.34
150	255	345	265	385	31.5	0.16	0.134	14.17
185	290	395	305	440	31.5	0.17	0.128	17.48
240	335	460	345	520	31.5	0.19	0.124	22.68
300	375	525	390	595	31.5	0.2	0.12	28.35
400	430	610	445	695	31.5	0.23	0.115	37.79
500	490	710	510	805	31.5	0.25	0.111	47.24
630	555	815	580	940	31.5	0.28	0.108	59.52

SPB = Single point Bonding | CB = Cross Bonding