



Technical Data Sheet of Cables	
Particulars	
Name of Manufacturer	Delton Cables Ltd., Faridabad , India
Type of cable	MV Power Cable
Voltage Grade	1100V
Applicable Standard	Generally conforming to IS 7098-1
Cable Size (No. of core x Sq.mm)	3 C x 50 3 C x 35 3 C x 25 3 C x 16
Conductor	
Material	H4 Grade High Conductivity Stranded Aluminium as per IS 8130
Main Conductor (Sq.mm)	50 35 25 16
Number of Strands/ Strand diameter (mm) (Before Stranding)	7 / 3.02 7 / 2.52 7 / 2.14 7 / 1.7
	Strand diameter for main conductor is nominal, and will meet the required resistance value as per IS 8130
Shape of the conductor	Sector Shaped (Class 2)
Insulation	
Material	Extruded XLPE as per IS 7098-1
Nominal thickness for Main Conductor (mm)	1.00 0.90 0.90 0.70
Min. Volume Resistivity (Ohms-cm)	1x10 ¹⁴ at 27 ⁰ C 1x10 ¹² at 90 ⁰ C
Core Identification	Red, Yellow & Blue
Inner Coverings	
Material	Extruded PVC type ST2 as per IS 5831
Minimum Thickness (mm)	0.30
Colour	Black
Armouring	
Material	Galvanised Steel as per IS 3975
Type of armouring	Flat Strip
Nominal size of armour (mm)	4 x 0.8
Oversheath	
Material	Extruded PVC type ST2 as per IS 5831
Minimum Thickness (mm)	1.40 1.40 1.40 1.24
Colour	Black
Electrical Parameters	
Max. d.c. resistance of conductor at 20° C (Ohms/km) for Main Conductor	0.641 0.868 1.20 1.91
Maximum conductor temperature under normal operating conditions (Deg C)	90
Maximum conductor temperature at the termination of short circuit (Deg C)	250
HV Test	3 KV for 5 minutes
Approx. overall diameter of the cable in mm (+/- 2mm)	25 22 21 17
Printing	Delton Cables Ltd., Year of Manufacture, Voltage Grade, Conductor size x No. of Cores Sequential length marking shall be provided at every meter
Standard Packing Length in meters (+/-5% Tolerance)	500 / 1000
Overall Quantity tolerance	+/-5%

Item above is subject to tolerances as per relevant standards