



<b>Technical Data Sheet of Cables</b>	
<b>Particulars</b>	
<b>Name of Manufacturer</b>	Delton Cables Ltd., Faridabad , India
<b>Type of cable</b>	Special Cable (Mining Cable)
<b>Applicable Standard</b>	Generally confirming to IS 1554-1, IS 8130
<b>Voltage Grade</b>	1100V
<b>Cable Size (No. of core x Sq.mm)</b>	4 C x 240
<b>Conductor</b>	
Material	H4 Grade High Conductivity Stranded Aluminium as per IS 8130
Main Conductor (Sq.mm)	240
Number of Strands/ Strand diameter (mm) (Before Stranding)	37 / 2.85
	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)
<b>Insulation</b>	
Material	Extruded PVC type A as per IS 5831
Nominal thickness for Main Conductor (mm)	2.20
Min. Volume Resistivity (Ohms-cm)	$1 \times 10^{13}$ at 27 <sup>0</sup> C
	$1 \times 10^{10}$ at 70 <sup>0</sup> C
Core Identification	Red, Yellow, Blue & Black
<b>Inner Coverings</b>	
Material	Extruded PVC type ST1 as per IS 5831
Minimum Thickness (mm)	0.60
Colour	Black
<b>Armouring</b>	
Material	Galvanised Steel as per IS 3975
Type of armouring	Double layer round wire
Nominal size of armour (mm)	2.5
	The conductance of the armour shall be not be less than 33% of that of the phase conductor
<b>Oversheath</b>	
Material	Extruded PVC type ST1 as per IS 5831
Minimum Thickness (mm)	2.36
Colour	Black
<b>Electrical Parameters</b>	
Max. d.c. resistance of conductor at 20° C (Ohms/km) for Main Conductor	0.125
Maximum conductor temperature under normal operating conditions (Deg C)	70
Maximum conductor temperature at the termination of short circuit (Deg C)	160
HV Test (Core to Core)	3 KV for 5 minutes
Printing	Delton Cables Ltd., Year of Manufacture, Voltage Grade, Conductor size x No. of Cores Sequential length marking shall be provided at every meter
<b>Standard Packing Length in meters (+/-5% Tolerance)</b>	500 / 1000
Overall Quantity tolerance	+/-5%

**note:-** The values given above are subject to tolerances as per the relevant standards. In case of any Typographical error /Discrepancy, relevant standards shall be prevailed.