

Technical Data Sheet of Cables



Particulars

Name of Manufacturer	Delton Cables Ltd., Faridabad , India
Cable Size (No. of core x mm)	1 C x 1.22 +/-0.3mm
Center Conductor	
Material	Electrolytic grade Annealed Bare Copper
Number of Strands/ Strand Diameter in mm	1/1.22
Max. d.c. resistance of conductor at 20° C (Ohms)	16.00
Shape of the conductor	Solid Circular
Insulation (Dielectric)	
Material	Center conductor wrapped with polyethylene string & extruded overwith polyethylene tube
Nominal Dia over insulation (mm)	5.30 +/-0.15
Core Identification	Black
Outer Conductor (Braided)	
Material	Annealed tinned copper Braid
Thickness (mm)	0.2
Coverage %	90%
Tape over Outer conductor	
Material	Polyester Tape
Thickness (mm) (min.)	0.012
Overlap %	30%
Inner Sheath	
Material	Extruded PVC Type-ST2
Thickness (mm) (Nom.)	0.7
Colour	Grey
Dia. Over Inner sheath (mm)	8.0 +/-0.25mm
Bedding	
Material	PVC Tape
Thickness (mm) (min.)	0.05
Overlap %	30%
Colour	Grey
Armouring (Braided)	
Material	Galvanised Iron Braid
Thickness (mm) (Nom.)	0.3
Coverage % (Min.)	70%
Tape over Armour	
Material	Polyester Tape
Thickness (mm) (min.)	0.019
Overlap %	30%
Outer Sheath	
Material	Extruded PVC Type-ST2
Thickness (mm) (Nom.)	1.0
Colour	Grey
Dia. Over Outer sheath (mm)	12.50 +/-0.50mm

Electrical Parameters	
Max. Operating voltage	1.5KV rms
Max. Operating frequency	500 kHz
Nominal Power Rating	150 watts
Operating Temperature Range	-15 to +85 ⁰ C
Dielectric strength	4.5KV RMS
Characteristics Impedence	75 Ohms +/-10%
Insulation Resistance at 20Deg.	10000 M Ohms/km
Spark Test	Insulation (Dielectric)-6000V Rms & sheath-3000V Rms
Capacitance 1Khz	54pF/mtr. (Nominal)
Attenuation	
at 10KHZ	1.2 dB/km
at 60KHZ	1.8 dB/km
at 300KHZ	3.9 dB/km
at 500KHZ	5.5 dB/km
Applicable Standard	Generally confirming to IS-11967 (Part-2) Sec.-1
Mechanical Parameters	
Tensile strength of conductor in N/SQMM	460
Elongation of the conductor (Min.) in %	1
Minimum bending radius	12 x OD
Marking on outer sheath	Delton Cables Ltd., Year of Manufacturing, 75 Ohms Coaxial Cable
Standard Packing Length in meters (+/-5% Tolerance)	500/1000
Overall Quantity tolerance	+/-5%