M/S. DELTON CABLES LIMITED

CONSTRUCTIONAL & TECHNICAL DATA SHEET



S. NO.	DESCRIPTION					
1	Name of Manufacturer		Delton Cables Limited, Faridabad (India)			
2	Cable Type		Fire Resistant Screened Cable			
3	Applicable Standard		Generally Confirming to IS-6380,9968-1 & BS EN 50288-7, IS 5831, IS 8130			
4	Voltage Grade	Volts	500			
5	Cable Size (No. of Pairs x Sq.mm)		1P x 1.5	6P x 1.5	12P x 1.5	
6	CONDUCTOR			•		
a)	Material		Annealed Bare Copper of class 2 as per IS-8130			
b)	Area of conductor	mm ²	1.5 (Conductor strand diameter is nominal & will meet the required CR value as per IS 8130)			
c)	Shape of Conductor		Non Compacted Circular			
d)	Heat Barrier Tape		Single layer of Glass Mica Tape should be provide on Conductor			
7	INSULATION					
a)	Material		Extruded EPR as per IS 9968-1			
b)	Composite Thickness of insulation (Nominal.) +Glass Mica	mm	1.00			
c)	Core Identification		Black & White	Black, & White with number tape for Pair Identification		
8	Individual Screen			•		
a)	Material		Not Applicable	ole Aluminium Mylar Tape		
b)	Thickness (mm)		Not Applicable	0.05		
c)	Coverage (%) / Overlap (%)		Not Applicable	Not Applicable 100 / 25		
d)	Drain Wire					
	Material		Not Applicable	Stranded Tinned Copper		
ii)	Size		Not Applicable 0.5 Sq.mm (7/0.3 mm)			
9	Overall Screen					
a)	Material		Aluminium Mylar Tape			
b)	Thickness (mm)		0.05			
c)	Coverage (%) / Overlap (%)	ļ	100 / 25			
d)	Drain Wire	ļ				
	Material		Stranded Tinned Copper			
	Size	1	0.5 Sq.mm (7/0.3 mm)			
10	INNER SHEATH	1				
a)	Material (A IS 7000.1)	1	Extruded FRLS PVC Type ST2 as per IS 5831			
b)	Min.Thickness (As per IS 7098-1)	mm	0.3 0.4			
c)	Colour Din cond helow Innon Shooth	+	Black			
d)	Rip cord below Inner Sheath		Yes			
11	ARMOURING Material	+	Galvanized Steel as per IS 3975			
a) b)		1		1		
b) c)	Type of armouring Nominal size of armour	*****	Round Wire 1.4	Flat strips 4 x 0.8	Flat strips 4 x 0.8	
12	OUTER SHEATH	mm	1.4	4 X U.0	4 X U.O	
	Material	+	Evtruded	I FRLS PVC Type ST2 as p	ne IS 5831	
a) b)	Minimum Thickness	mm	1.24	1.56	1.88	
	Colour	mm	1.24	Light Blue	1.00	
c) d)	Rodent and Termite attack protection			Yes		

13	ELECTRICAL PARAMETERS						
a)	Maximum Conductor d.c. Resistance at 20 ^o C	Ohm/km	12.1	12.34	12.34		
b)	Maximum conductor temperature under normal operating conditions	⁰ C	90				
c)	Mutual capacitance at 1.0 KHz (Max.)	nF/Km	Core to Core <150				
			Core to Screen <400				
d)	High Voltage Test (HV Test)	KV rms	2 KV for 1 minutes				
e)	Circuit Integrity Test/fire survival test		As per IEC 00551-11 Flore at 750 dea C for 00 minutes				
14	FRLS Properties						
a)	Min. Temp. Index at O.I of 21		250 Deg.C when tested as per ASTM D - 2863				
b)	Smoke density rating		20 % (Max.) when tested as per ASTM D - 2843				
c)	Min. Oxygen index at room temp. (27 deg)		29% as per ASTM D - 2863				
d)	Flammability test		Shall pass the test when tested as per IEC-60332-I				
e)	Max. HCL Emission		20% (By Weight) when tested as per IEC-60754-I				
15	PACKING						
a)	Approx. overall diameter of the cable (+/- 2mm)	mm	20	33	44		
b)	Minimum bending radius		15 x OD				
c)	Printing details		Delton Cables Ltd, Voltage Grade, No. of Pair x Conductor size, Year of Manufacturing, FRLS				
d)	Sequential length marking		Shall be provided at every one meter length by printing				
e)	Standard Packing Length	Mtrs	1000 ± 5%				
f)	Drum Material		Non Returnable Wooden Drum				
g)	Individual Quantity tolerance		±5%				
h)	Overall Quantity tolerance			±5%			