M/S. DELTON CABLES LIMITED

CONSTRUCTIONAL & TECHNICAL DATA SHEET

Delton We Connect . We Protect

Enq. No. : DCL3005/2347
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S.NO.	TECHNICAL DESCRIPTION	Unit		
			20P	**50P**
1	**Make**		Delton Cables Limited	
2	**Place of Manufacture**		Faridabad (India)	
3	**Cable Type**		**Armoured Jelly Filled Cables**	
4	**Applicable Specifications**		Generally confg. to DOT GR/CUG-01/03 Aug.03	
5	**Number of pairs**		20P	50P
6	**Conductor**			
	a.) Material		Solid Annealed Bare Copper	
	b.) Grade		Electrolytic	
	c.) Nominal Diameter of each strand	No./mm	1/0.63	
	d.) Shape of Conductor		Solid - Circular	
7	**Insulation**			
	a.) Material		Solid polythene confirming to ASTMD-1248 Type-II or III, Class-A Cat. 4 or 5 (cl.4.0 of TEC GR/CUG-01/03 Aug.03)	
	b.) Nominal Thickness of Insulation		Suitable to meet the electrical & other test requirement	
	c.) Method of application		Extruded	
	Nom. Diameter over Insulation		Suitable to meet the electrical & other test requirement	
8	**Colour Scheme for Identification**		As per Table 2 of TEC GR/CUG-01/03 Aug.03	
9	**Twisting Lay of Pairs**		Max. 150 mm	
10	**10/20P colour Scheme with Binder tape**		As per Table 3 of TEC GR/CUG-01/03 Aug.03	
11	**No. of Units**		1 x 20P	5 Unit x 10P
12	**Cable Laying**		The required No. of Pairs/Unit are stranded to form a cable core	
13	**Jelly Filling**		The Cable Core thus formed is filled with suitable water resistance compound	
14	**Core Wrapping**		After filling the water resistant compound at least one close Helical/Longitudinal application of Polyster tape is applied	
15	**Screening**			
	Material		Polyal Tape (as per Cl.No. 9.0)	
	Thickness	mm	0.3 +/- 15%	
	Overlap	mm	Min. 3	
16	**Sheath**			
	a.) Material		Solid Polythene (confg. to Type 03C or H 03C of BS-6234)	
	b.) Type		Extruded	
	c.) Thickness	mm	Nom. 2.0, Avg. 1.7, Min. 1.5	Nom. 2.0, Avg. 1.7, Min. 1.5
	d) Dia over Sheath	mm	19 (Max.)	25.5 (Max.)
	e) Colour		Black	Black
17	**Bedding Tape**		The close helical lapping of polythene or polypropylene tape shall be provided with min. 5% overlap over sheath	
18	**Armouring**			
	a.) Material		Hot Dip Galvanised Steel Tape	
	b) Type		Helical (Double) as per Cl.No. 11.3 of TEC Spec.	
	b.) Thickness of Tape Nom.	mm	0.5	0.5
19	**Jacket**			
	Material		Solid Polythene (confg. to Type 03C or H 03C of BS-6234)	
	Type		Electrolytic	
	Thickness (Nom.)	mm	Nom. 1.4, Avg 1.19, Min. 1.05	Nom. 1.4, Avg 1.19, Min. 1.05
	Dia over Jacket	mm	26 (Max)	32.5 (Max)
	Colour of Outer Jacket		Black	Black
20	**Electrical Parameters**			
	Conductor resistance at $20^{O}C$	Ohm/km	58 +/- 4	58 +/- 4
	Resistance unbalance :			

	Average Max.	%	1	
	Individual Max.	%	2.0	
	Min. I.R. at room temp.	M.ohm/Km	5000	
	Mutual Capacitance in between 800 to 1000 Hz	nF/km	Avg.52 +/- 3, Indv.Max.52 +/- 4.5	
	Cross Talk at 150 KHz	ELFEXT /NEXT	Indv. : Better than 55 dB/km	
			RMS : Better than 67.8 dB/km	
			Next:Indv. Value between pairs	
			Better than 55 dB/km	
	Attenuation at 150KHz at 20^{O}C	db/km	6.30 dB/km Avg. (Max.)	
	High Voltage Test			
	Core to Core		3.5 KV DC for 3 seconds	
	Core to Shield		10 KV DC for 3 seconds	
21	**Standard Packing Length +/-5% Tolerance**	Mtrs.	1000	1000
22	**Cable Marking**		Delton Cables Ltd, Size x No. of Pairs, Year of Manufacturing, Seq. length marking at One Mtrs. by Printing	

Note :- The values given above are subject to tolerances as per the relevant standards.

Incase of any Typographical error/ Discrepancy, relevant standards shall be prevailed.

DELTON CABLES LIMITED Faridabad