JELLY FILLED TELEPHONE CABLES AS PER BSNL SPECIFICATION
BSNL Specification No. GR/CUG-01/03.AUG.2003

MEASUREMENTS	5Px0.5 UA	10Px 0.5 UA	20Px 0.5 UA	50Px 0.5 UA	100Px0.5 UA	200Px 0.5 UA
Conductor						
Material	Solid Wire of Plain Annealed Copper					
Shape of Conductor	Round					
Diameter	Nominal 0.50 mm					
Nominal Cross Section Area	Nominal 0.20 Sq. mm					
Insulation						
Material	Solid Polythene					
Thickness	0.25 mm Minimum					
Tolerance on Thickness of Insulation	Maximum 0.30 mm					
Diameter of core over insulation	Nominal 1.060 mm					
Volume Restistivity	5000 ohms / km.					
Tensile Sstrength	Min. 100 Kg./ cm sq.					
Sheath/Moisture Barrier						
1) Moisture Barrier						
Material	An Aluminium Tape coated with polythene on both side					
Wrapped	Wrapped Over Cable Core					
Thickness	0.30 +/- 15 %					
Diameter Over APL (Approx.)	6.30	8.10	10.60	15.60	21.30	29.60
2) Sheath						
Material	Black Polythene					
Extruded Over	Over Moisture Barrier					
Thickness Nominal (mm)	2.00	2.00	2.00	2.00	2.00	2.20
Diameter Over Cable (Maximum)	11.0	13.2	17.0	22.0	28.0	37.5
Electrical Parameter						
Resistance	86+ / -ohms / Km. at 20 deg C					
Resistance Unbalance	Ind Max.2.5% and Avg. Max 1.0%					
Mutual Capacitance at 800 Hz	Ind Max. nf/Km - 52 + / - 4.5, Avg. Max. nf/Km. 52 +/- 3.0					
CUPP	Ind Max. pf/Km. 200, Avg. Max. pf/Km. 50					
CUPG	Ind. Max. pf/Km. 3000, Avg. Max. pf/Km. 750					
Cross Talk						
ELFEXT	Ind Min. dB/Km. 55 & Min.RMS 67.8 dB/Km.					
NEXT	Min. dB 55					
Attenuation	Average 8.25 dB / Km. @ 150 KHz.					
Di-electric strength	2.4 KV between Conductor & 5 KV between conductor and shield for 3 seconds.					
Factory Tests						
Cable Weight in Kg / Km (Approx.)	87.00	125.00	193.00	405.00	735.00	1370.00
Recommended Minimum Bending Radius	12 times of Cable Diameter/2					
Safe Pulling Force	400 N					
Length of Cable per Drum (meters)	1000	1000	1000	1000	500	400
Cable Drum						
Net Weight (Drum) (approx.)	200	300	400	500	600	500
Cable Weight in Kg / Km (Approx.)	87	125	193	405	715	1370
Shipping Weight (Approx.)	287	425	593	905	1315	1870
Whether Cable Bear ISI Mark	No					
ISI License No.	Not Applicable					
Insulation Resistance	Minimum 5000 Ohms / Km.					

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