



Work Area Solutions

Category 6 UTP 4Pairs LSZH Sheath

Content of the Data Sheet

Sheath Printing		Forteq Cat 6 UTP 23AWG 4Pair LSZH, Blue, 305m PN: 101-6U4P-LSZH-BU			
Category		FORTEQ 101-6U4P-LSZH			
Test Standard		ISO/IEC11801、ANSI/TIA-568.2-D			
Conductor	Material	SOLID-Bare Copper			
	23AWG x 4pairs				
Insulation	Material	HDPE			
	Diameter	0.98±0.05mm			
Sheath	Thickness	0.50±0.05 mm			
	External O.D.	5.8±0.4mm			
	Surface	Clean,Frap,Satiation			
	Material	LSZH(complies RoHS)			
	Color	White			
Surface Printing	Letter height	3.0±0.3mm			
	Color	Black			
	Print error & Space	≤±0.5%, 1m			
Core Color	1 White- Blue /Blue	2 White-Orange /Orange			
	3 White-Green /Green	4 White- Brown /Brown			
Packing	Wooden Tray & Carton				
Packing length	305m				
Rip-cord	Yes	Drain wire	No		
Sheath Physical Properties	Before Aging Tensile Strength (Mpa)	≥10.0			
	Elongation(%)	≥125			
	Aging Period (°C×hrs)	100°C×24h×7d			
	After Aging Tensile Strength(Mpa)	≥8.0			
	Elongation(%)	≥100			
	Cold bend(-20±2°C×4h) 8×Cable O.D., No visible cracks				
Electrical Characteristics (20°C)	1.0-250.0MHz Impedance ((Ω)	100±15			
	1.0-250.0MHz Delay Skew (ns/100m)	≤45			
	DC Resistance (Ω/100m) max	9.38			
	DC Conductor Resistance Unbalance (%)	max 5.0			

White-Blue /Blue

White-Orange /Orange

Sheath

Filler

Rip-cord

White-Brown /Brown

White-Green /Green

Technical Performance (100m):				
Frequency (MHz)	RL ≥dB	ATT (20°C) ≤dB	NEXT ≥dB	PHASE DELAY ≤ns
1	20.0	2.03	74.3	570.00
4.0	23.0	3.78	65.3	552.00
8.0	24.5	5.32	60.8	546.73
10.0	25.0	5.95	59.3	545.38
16.0	25.0	7.55	56.2	543.00
20.0	25.0	8.47	54.8	542.05
25.0	24.3	9.51	53.3	541.20
31.25	23.6	10.67	51.9	540.44
62.5	21.5	15.38	47.7	538.55
100	20.1	19.80	44.3	537.60
200	18.0	28.98	39.8	536.54
250	17.3	32.85	38.3	536.27

Frequency (MHz)	PSNEXT ≥dB	ELFEXT ≥dB	PSELFEXT ≥dB
1	72.3	67.8	64.8
4	63.3	55.8	52.8
8	58.8	49.7	46.7
10	57.3	47.8	44.8
16	54.2	43.7	40.7
20	52.8	41.8	38.8
25	51.3	39.8	36.8
31.25	49.9	37.9	34.9
62.5	45.4	31.9	28.9
100	42.3	27.8	24.8
200	37.8	21.8	18.8
250	36.3	19.8	16.8