

PRODUCT SPECIFICATION

STANDARD COMPLIANCES:

All Proposed Category 6 requirements as per ANSI/TIA/EIA, ISO/IEC, and CENELEC EN Standards: ANSI/TIA/EIA 568-B.2-1 CAT.6, ISO/IEC 11801 CLASS E, 2nd Edition, IEC 61156-6, CENELEC EN 50173-1 CENELEC EN 50288-5-1, CENELEC EN 50288-5-2
 Flame Retardancy is verified according to IEC 60332-1-2. We implemented RoHS compliance for the requirement of European Union issued Directive 2002/95/EC



CONSTRUCTION & CHARACTERISTICS:

MODEL CODE	NCC6LSZHBLUE					
Conductor	Material	SOLID-Bare Copper				
	Nom. O.D. (mm)	0.550	<table border="1"> <tr> <td>Up</td> <td>+0.005</td> </tr> <tr> <td>Down</td> <td>-0.005</td> </tr> </table>	Up	+0.005	Down
Up	+0.005					
Down	-0.005					
Insulation	Material	HDPE				
	Diameter	0.95 ± 0.03mm				
Colour	A. White-Blue, Blue	B. White-Orange, Orange				
	C. White-Green, Green	D. White-Brown, Brown				
Rip-cord	Yes	Drain Wire	No			
Sheath	Thickness	0.55 ± 0.05mm				
	External O.D.	6.2 ± 0.4mm				
	Surface	Clean, Frap, Satiation				
	Material	LSZH (Complies RoHS and CM (UL) rated)				
	Colour	White				
Sheath Physical Properties	Before Aging	Tensile Strength(Mpa)≥13.5 / Elongation(%)≥150				
	Aging Period (°C x hrs)	100°C x 24h x 7d				
	After Aging	Tensile Strength(Mpa)≥12.5 / Elongation(%)≥125				
	Cold Blend (-20± 2°Cx4h)	No visible cracks				
Electrical Characteristics (20°C)	1.0-250.0MHz, Characteristic impedance (Ω)	100 ± 15				
	1.0-250.0MHz, Delay Shew (ns/100m)	≤45				
	DC Resistance (Ω/100m) max	9.38				
	DC Conductor Resistance Unbalance (%)max	5.0				

APPLICATIONS:

- 1000BASE-Tx Gigabit Ethernet
- 10BASE-T, 100BASE-T Fast Ethernet (IEEE 802.3)
- 100 VG - AnyLAN(IEEE802.12), 155/622 Mbps ATM
- 550 MHz Broadband Video
- Voice, T1, ISDN

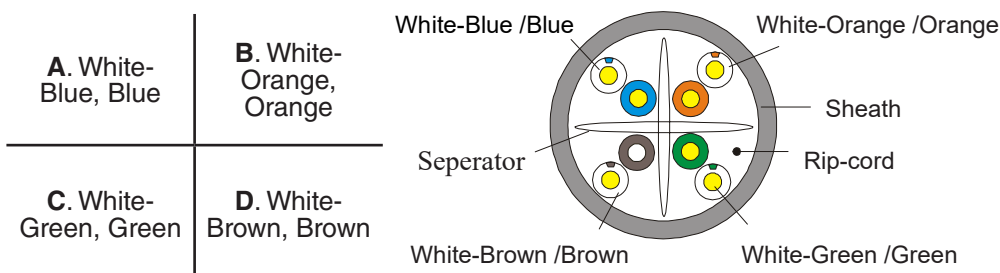
ELECTRICAL PERFORMANCE:

Freq (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	41.3	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

Freq (MHz)	RL ≥dB	ATT ≤dB	NEXT ≥dB	DELAY ≤ns
1	20.0	2.0	65.3	570.00
4	23.0	4.1	56.3	552.00
8	24.5	5.8	51.8	546.73
10	25.0	6.5	50.3	545.38
16	25.0	8.2	47.2	543.00
20	25.0	9.3	45.8	542.05
25	24.3	10.4	44.3	541.20
31.25	23.6	11.7	42.9	540.44
62.5	21.5	17.0	38.4	538.55
100	20.1	22.0	35.3	537.60
200	18.0	28.98	39.8	536.54
250	17.3	32.85	38.3	536.27

Values are for information only. The minimum NEXT coupling loss for any pair combination at room temperature is to be greater than the value determined using the formula:
 $NEXT(f \text{ MHz}) \geq NEXT(0.772) - 15 \log_{10}(f \text{ MHz} / 0.772)$

CONFIGURATION:



Although every precaution has been taken to ensure the accuracy of the product specifications at the time of publication, we cannot be responsible for the errors, omissions, or changes due to obsolescence. All data contained herein is subject to change without notice.