

CERTECH 305M Cat6 UTP Solid Cable, LSZH Jacket

NCC6LSZHXXXX

DESCRIPTION

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 implemented RoHS compliance for the requirement of European Union issued Directive 2002/95/EC

FEATURES:

- 305m Cat6 UTP Solid Cable Roll 250MHz
- 100% Bare Copper Cable
- 23AWGx4P
- LSZH Jacket
- AS/CA S008:2010 Approved
- 4K UHD Ready



MODEL	DESCRIPTION	SIZE	COLOUR
NCC6LSZHBLUE	305M Cat6 UTP Solid Cable, Black LSZH Jacket	305M	BLUE
NCC6LSZHBLACK	305M Cat6 UTP Solid Cable, Black LSZH Jacket	305M	BLACK
NCC6LSZHGREEN	305M Cat6 UTP Solid Cable, Green LSZH Jacket	305M	GREEN
NCC6LSZHGREY	305M Cat6 UTP Solid Cable, Grey LSZH Jacket	305M	GREY
NCC6LSZHPINK	305M Cat6 UTP Solid Cable, Pink LSZH Jacket	305M	PINK
NCC6LSZHPURPLE	305M Cat6 UTP Solid Cable, Purple LSZH Jacket	305M	PURPLE
NCC6LSZHRED	305M Cat6 UTP Solid Cable, Red LSZH Jacket	305M	RED
NCC6LSZHWHITE	305M Cat6 UTP Solid Cable, White LSZH Jacket	305M	WHITE
NCC6LSZHYELLOW	305M Cat6 UTP Solid Cable, Yellow LSZH Jacket	305M	YELLOW

Conductor	Material	SOLID-Bare Copper		
	Nom. O.D. (mm)	0.550	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°C x4h)	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

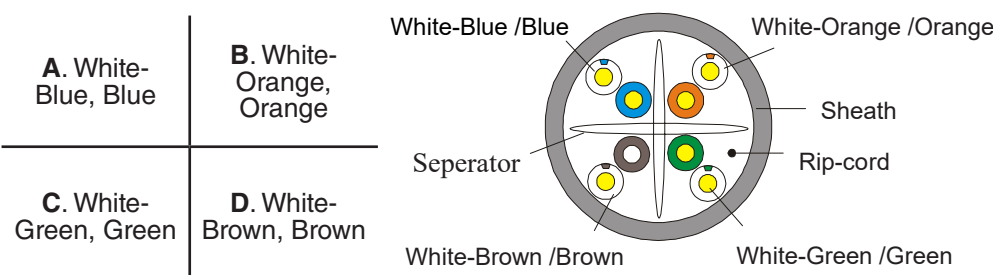
ELECTRICAL PERFORMANCE:

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.