

PRODUCT SPECIFICATION

STANDARD COMPLIANCES:

All Category 5e Requirements as Per ANSI/TIA/EIA, ISO/IEC, and CENELEC EN Standards: ISO/IEC11801, TIA/EIA 568B, EN 50173, YD/T1019-2001 Flame Retardancy is Verified According to IEC 60332-1. We Implemented RoHS Compliance for the Requirement of European Union Issued Directive 2002/95/EC



CONSTRUCTION & CHARACTERISTICS:

MODEL CODE	NCC5ESLDBLACK, NCC5ESLDBLUE, NCC5ESLDGREEN NCC5ESLDDORANGE, NCC5ESLDPURPLE, NCC5ESLDWHITE, NCC5ESLDYELLOW			
Conductor	Material	SOLID-Bare Copper		
	Nom. O.D. (mm)	0.50	Up	+0.005
			Down	-0.005
Insulation	Material	HDPE		
	Diameter	0.87 ± 0.02mm		
Colour	A. Blue, White-Blue	B. Orange,White-Orange		
	C. Green,White-Green	D. Brown, White-Brown		
Rip-cord	Yes	Drain Wire		No
Sheath	Thickness	0.50 ± 0.05mm		
	External O.D.	5.1 ± 0.3mm		
	Surface	Clean, Frap, Satiation		
	Material	PVC (Complies RoHS		
	Colour	BLUE		
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)	1.0-100.0MHz, Characteristic impedance (Ω) 100 ± 15			
	1.0-100.0MHz, Delay Shew 20 °C (ns/100m) ≤45			
	DC Resistance 20 °C (Ω/100m) max 9.5			
	DC Conductor Resistance Unbalance (%)max 5.0			

APPROVALS:

- UL/cUL Listed
- ETL /3P Certified ANSI/TIA/EIA-568-B.2 Category 5e testing safety/performance requirements.

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APPLICATIONS:

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

ELECTRICAL PERFORMANCE:

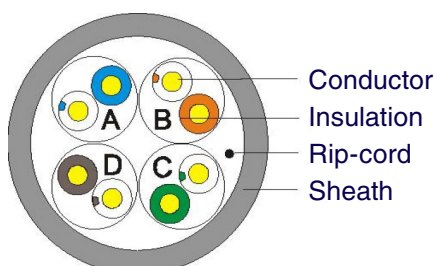
Freq (MHz)	PSNEXT ≥dB	ELFEXT ≥dB	PSELFEXT ≥dB
1	62.3	64.0	61.0
4	53.3	52.0	49.0
8	48.8	45.9	42.9
10	47.3	44.0	41.0
16	44.4	39.9	36.9
20	42.8	38.0	35.0
25	41.3	35.8	33.0
31.25	39.9	34.1	31.1
62.5	35.4	28.1	25.1
100	32.3	24.0	21.0

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

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:

A. Blue, White-Blue	B. Orange, White-Orange
C. Green, White-Green	D. Brown, White-Brown



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.