

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 NCC5ESLDRANGE, NCC5ESLDPURPLE, NCC5ESLDWHITE, NCC5ESLDYELLOW					
Conductor	Material	SOLID-Bare Copper				
	Nom. O.D. (mm)	0.50	<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
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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 °C x 4h)	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:

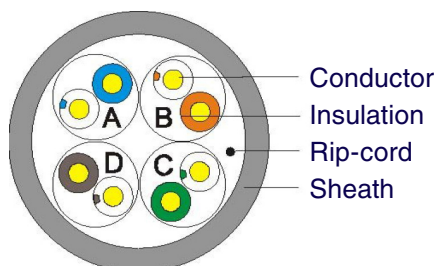
Freq (MHz)	PSNEXT ≥dB	ELFEXT ≥dB	PSELFEXT ≥dB
1	62.3	64.0	61.0
4	53.3	52.0	49.0
8	48.8	45.9	42.9
10	47.3	44.0	41.0
16	44.4	39.9	36.9
20	42.8	38.0	35.0
25	41.3	35.8	33.0
31.25	39.9	34.1	31.1
62.5	35.4	28.1	25.1
100	32.3	24.0	21.0

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.