

### PRODUCT SPECIFICATION

#### STANDARD COMPLIANCES:

All proposed Category 6A requirements as per ANSI/TIA/EIA, ISO/IEC, and CENELEC EN Standards: ANSI/TIA/EIA 568-B.2-1 CAT6A, 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:

<b>MODEL CODE</b>	NCC6ASHBLUE, NCC6ASHGREY			
<b>Conductor</b>	<b>Material</b>	SOLID-Bare Copper		
	<b>Nom. O.D. (mm)</b>	0.560	Up	+0.005
			Down	-0.005
<b>Insulation</b>	<b>Material</b>	Skin-Foam-Skin PE		
	<b>Diameter</b>	1.330 ± 0.05mm		
<b>Colour</b>	A. White, Blue	B. White, Orange		
	C. White, Green	D. White, Brown		
<b>Rip-cord</b>	Yes	Drain Wire	Yes	
<b>Sheath</b>	<b>Thickness</b>	0.55 ± 0.05mm		
	<b>External O.D.</b>	7.5 ± 0.5mm		
	<b>Surface</b>	Clean		
	<b>Material</b>	PVC (Complies RoHS)		
	<b>Colour</b>	Blue or Grey (According to Model Code)		
<b>Sheath Physical Properties</b>	<b>Before Aging</b>	Tensile Strength(Mpa) ≥ 13.5 / Elongation(%) ≥ 150		
	<b>Aging Period (°C x hrs)</b>	100°C x 24h x 7d		
	<b>After Aging</b>	Tensile Strength(Mpa) ≥ 12.5 / Elongation(%) ≥ 125		
	<b>Cold Blend (-20 ± 2°C x 4h)</b>	No visible cracks		
<b>Electrical Characteristics (20°C)</b>	<b>Velocity of Propagation (%)</b>	74		
	<b>1.0-250.0MHz, Delay Shew (ns/100m)</b>	≤ 45		
	<b>Unbalanced-to-Ground Capacitance (pf/100m) max</b>	330		
	<b>DC Resistance (Ω/100m) max</b>	9.38		
	<b>DC Conductor Resistance Unbalance (%) max</b>	2.0		

#### APPROVALS:

ETL/3P Certified ANSI/TIA/EIA-568-B.2-1 Category 6A Testing Safety/Performance requirements.

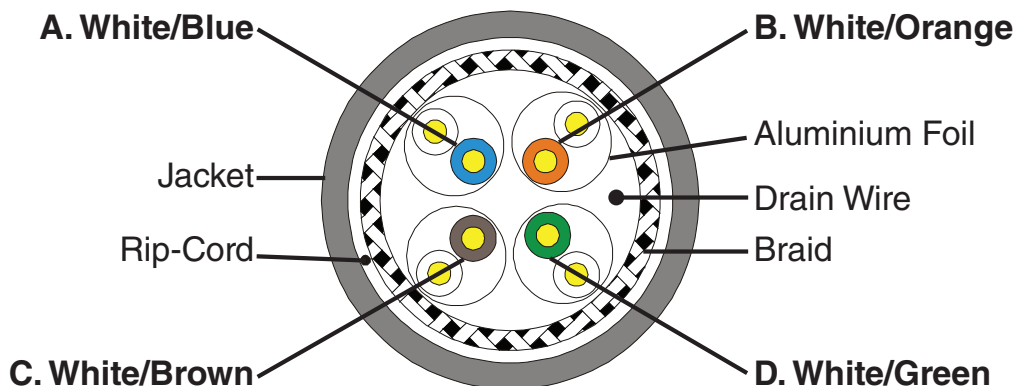
**ELECTRICAL PERFORMANCE:**

Freq (MHz)	PSNEXT ≥ dB	ELFEXT ≥ dB	PSELFEXT ≥ dB
1	72.3	67.8	64.8
4	63.3	55.8	52.8
8	48.8	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
300	35.1	18.3	15.3
500	31.8	13.8	10.8

Freq (MHz)	RL ≥ dB	ATT ≤ dB	NEXT ≥ dB	DELAY ≤ ns
1	20.0	2.1	74.3	570.0
4	23.0	3.8	65.3	552.0
8	24.5	5.3	60.8	546.7
10	25.0	5.9	59.3	545.4
16	25.0	7.5	56.2	543.0
20	25.0	8.4	54.8	542.1
25	24.3	9.4	53.3	541.2
31.25	23.6	10.5	51.9	540.4
62.5	21.5	15.0	47.4	538.6
100	20.1	19.1	44.3	537.6
200	18.0	27.6	39.8	536.5
250	17.3	31.1	38.3	536.3
300	16.8	34.3	37.1	536.1
500	15.2	45.3	33.8	535.6

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.