

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:

MODEL CODE	PVC: C-C6A1-SLDBLUE / C-C6A1-SLDGREY	LSZH: C-C6A1L-SLDBLUE / C-C6A1L-SLDGREY		
Conductor	Material	SOLID-Bare Copper		
	Nom. O.D. (mm)	0.560	Up	+0.005
			Down	-0.005
Insulation	Material	Skin-Foam-Skin PE		
	Diameter	1.330 ± 0.05mm		
Colour	A. White, Blue	B. White, Orange		
	C. White, Green	D. White, Brown		
Rip-cord	Yes	Drain Wire	Yes	
Sheath	Thickness	0.55 ± 0.05mm		
	External O.D.	7.5 ± 0.5mm		
	Surface	Clean		
	Material	Available in PVC & LSZH CM rated outer jacket, UL listed		
	Colour	Blue or Grey (According to Model Code)		
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)	Velocity of Propagation (%)	74		
	1.0-250.0MHz, Delay Shew (ns/100m)	≤45		
	Unbalanced-to-Ground Capacitance (pf/100m) max	330		
	DC Resistance (Ω/100m) max	9.38		
	DC Conductor Resistance Unbalance (%)max	2.0		

APPROVALS:

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

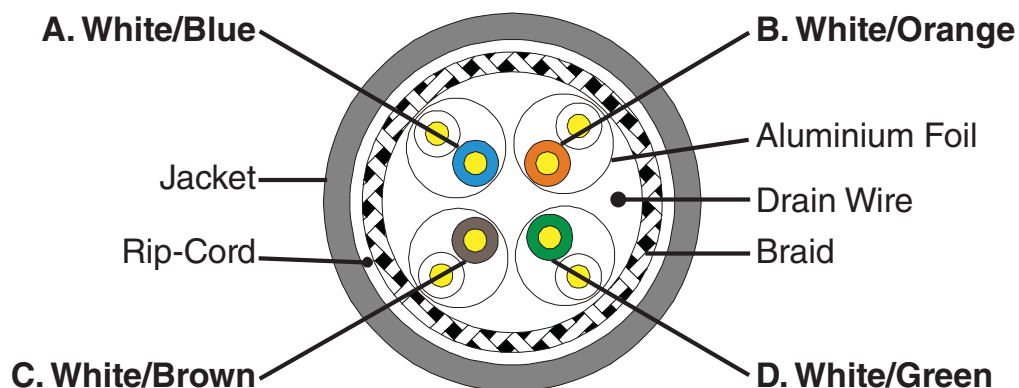
ELECTRICAL PERFORMANCE:

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.