

PRODUCT SPECIFICATION

STANDARD COMPLIANCES:

All proposed CAT6A requirements as per ANSI/TIA/EIA, ISO/IEC, and CENELEC EN Standards: ANSI/TIA/EIA 568-C.2 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 Outer Jacket	C-C6AF-SLDBLUE/C-C6AF-SLDWHITE/C-C6AF-SLDBLK		
	LSZH Outer Jacket	C-C6FL-SLDBLUE/C-C6FL-SLDWHITE/C-C6FL-SLDBLK		
Conductor	Material	SOLID-Bare Copper		
	Nom. O.D. (mm)	0.565	Up	+0.005
			Down	-0.005
Insulation	Material	HDPE		
	Diameter	1.12 ± 0.04mm		
Core Colour	A. White- Blue/Blue	B. White-Orange/Orange		
	C. White- Green/Green	D. White- Brown/Brown		
Rip-cord	Yes	Drain Wire	Yes	
Sheath	Thickness	0.60 ± 0.05mm		
	External O.D.	7.4 ± 0.4mm		
	Surface	Clean, Frap, Satiation		
	Material	Available in PVC & LSZH CM rated outer jacket, UL listed (Complies RoHS)		
	Colours	Blue, White & Black		
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		
Packing Length	305±1.5m			
Electrical Characteristics (20°C)	Impedance(Ω)	1.0-250.0MHz	100±15	
		250.0-500.0MHz	100±22	
	1.0-500.0MHz, Delay Skew (ns/100m)		≤45	
	Unbalanced-to-Ground Capacitance (pf/100m) max		330	
	DC Resistance (Ω/100m) max		9.38	
	DC Conductor Resistance Unbalance (%)max		5.0	

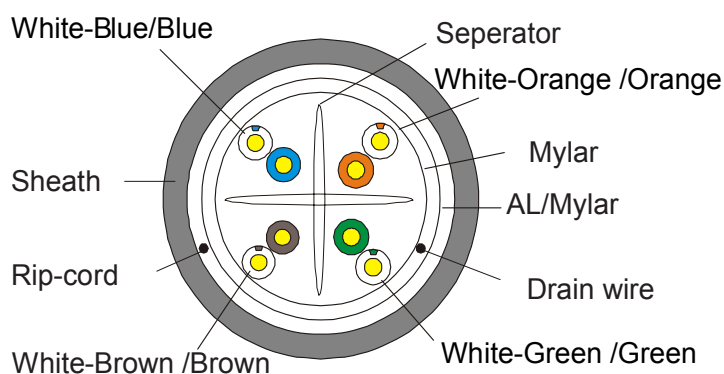
ELECTRICAL PERFORMANCE:

Freq (MHz)	PSNEXT $\geq$ dB	ELFEXT $\geq$ dB	PSELFEXT $\geq$ dB
1	72.3	68.0	65.0
4	63.3	56.0	53.0
8	58.8	49.9	46.9
10	57.3	48.0	45.0
16	54.2	43.9	40.9
20	52.8	42.0	39.0
25	51.3	40.0	37.0
31.25	49.9	38.1	35.1
62.5	45.4	32.1	29.1
100	42.3	28.0	25.0
200	37.8	22.0	19.0
250	36.3	20.0	17.0
300	35.1	18.5	15.5
500	31.8	14.0	11.0

Freq (MHz)	RL $\geq$ dB	ATT $\leq$ dB	NEXT $\geq$ dB	DELAY $\leq$ ns
1	20.0	--	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.