

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-SLDWH/C-C6AF-SLDBLK	
	LSZH Outer Jacket	C-C6FL-SLDBLUE/C-C6FL-SLDWH/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		

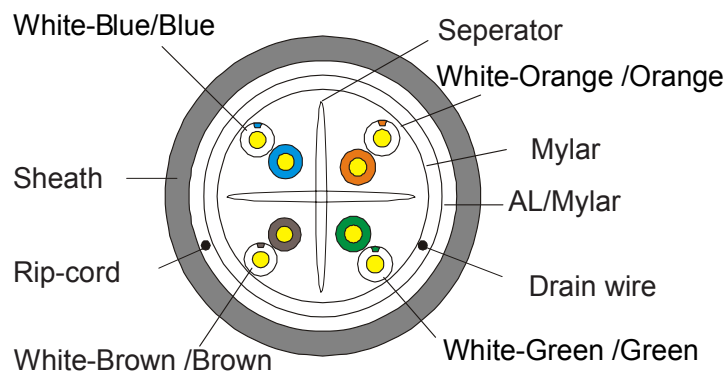
ELECTRICAL PERFORMANCE:

Freq (MHz)	PSNEXT ≥ dB	ELFEXT ≥ dB	PSELFEXT ≥ 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 ≥ dB	ATT ≤ dB	NEXT ≥ dB	DELAY ≤ 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.