DYNAMIX™
CERTIFIED CABLING SYSTEM

Category 6 UTP Horizontal Cable, 250MHz

PRODUCT SPECIFICATION



STANDARD COMPLIANCES:

All Proposed Category 6 requirements as per ANSI/TIA/EIA, ISO/IEC, and CENELEC EN Standards: ANSI/TIA/EIA 568-C.2 CAT.6, 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, UL VW-1.
We implemented RoHS compliance for the requirement of European Union issued Directive 2002/95/EC

CONSTRUCTION & CHARACTERISTICS:

MODEL CODE	**PVC: C-C6-SLD24-BLUE/C-C6-SLD24-WH/C-C6-SLD24-GY/ C-C6-SLD24-GRE LSZH: C-C6-LSZH24-BLUE**			
Conductor	Material	SOLID-Bare Copper		
	Nom. O.D. (mm)	±0.005	Up	0.500
			Down	0.510
Insulation	Material	HDPE		
	Diameter	0.88 ±0.05mm		
Colour	A. White-Blue, Blue	B. White-Orange, Orange		
	C. White-Green, Green	D. White-Brown, Brown		
Rip-cord	Yes	Drain Wire		No
Outer Jacket	Thickness	0.50 ±0.05mm		
	External O.D.	5.3 ±0.4mm		
	Surface	Clean, Frap, Satiation		
	Material	Available in PVC & LSZH CM rated outer jacket, UL listed		
	Colour	Blue/White/Grey/Green		
Jacket 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 x4h)	8x Cable O.D. - No visible cracks		
Electrical Characteristics	Usage temperature: -20 ~ 60°C			
	Storage and transport temperature: 0 ~ 50°C			

APPROVALS:

- UL/cUL Listed
- ETL/3P Certified ANSI/TIA/EIA-568-C.2 Category 6 Testing Safety/Performance requirements.

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APPLICATIONS:

- 1000BASE-Tx Gigabit Ethernet
- 10BASE-T, 100BASE-T Fast Ethernet (IEEE 802.3)
- 100 VG - AnyLAN (IEEE802.12), 155/622 Mbps ATM
- 250MHz Broadband Video
- Voice, T1, ISDN

ELECTRICAL PERFORMANCE:

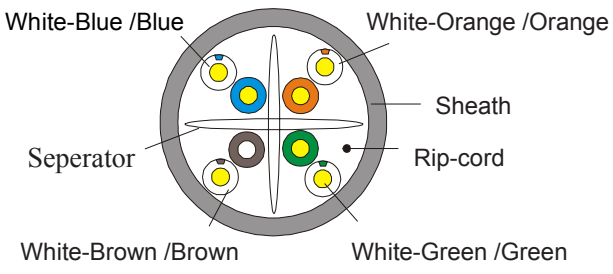
Freq (MHz)	PSNEXT ≥ dB	ELFEXT ≥dB	PSELFEXT ≥dB
1	62.0	64.2	61.2
4	61.8	52.1	49.1
8	57.0	46.1	43.1
10	55.5	44.2	41.2
16	52.2	40.1	37.1
20	50.7	38.2	35.2
25	49.1	36.2	33.2
31.25	47.5	34.3	31.3
62.5	42.7	28.3	25.3
100	39.3	24.2	21.2
200	34.3	18.2	15.2
250	32.7	16.2	13.2

Freq (MHz)	RL ≥dB	ATT ≤dB	NEXT ≥dB	DELAY ≤ns
1	19.1	3.0	65.0	570.00
4	21.0	3.5	64.1	552.00
8	21.0	5.0	59.4	546.73
10	21.0	5.5	57.8	545.38
16	20.0	7.0	54.6	543.00
20	19.5	7.9	53.1	542.05
25	19.0	8.9	51.5	541.20
31.25	18.5	10.0	50.0	540.44
62.5	16.0	14.4	45.1	538.55
100	14.10	18.60	41.8	537.60
200	11.0	27.4	36.9	536.54
250	10.0	31.1	35.3	536.27

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 MHZ) ≥ NEXT (0.772)-15LOG10 (f MHZ/0.772)

CONFIGURATION:

A. White-Blue, Blue	**B.** White-Orange, Orange
C. White-Green, Green	**D**. White-Brown, 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.