

Product Specification

STANDARD COMPLIANCES:

All Proposed Category 6 requirements as per ANSI/TIA, ISO/IEC, and CENELEC EN Standards:

ANSI/TIA-568-C.2 Cat.6

ISO/IEC 2nd Edition 11801 Class E

CENELEC EN 50173-1

CENELEC EN 50288-6-2, IEC 61156-6 for patch cable

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:

Conductor	Material / Size	Bare Copper / 24 AWG	
Insulation	Material	HDPE	
	Thickness	Nominal : 0.221 mm	
	Diameter	Nominal : 1.03 mm	
	Colors	Blue/White-Blue	Orange/White-Orange
		Green/White-Green	Brown/White-Brown
	Unaged Elongation	Min. 300%	
	Tensile Strength	Min. 1.683 Kgf/mm ²	
Jacket	Material	PVC	
	Thickness	Nominal : 0.50 mm	
	Diameter	Nominal : 6.4 mm	
	Color	Assorted upon request	
	Unaged Elongation	Min. 100%	
	Tensile Strength	Min. 1.407 Kgf/mm ²	
	Aging at 100°C for 168Hrs	Min. elongation retention: 50% Min. tensile strength retention: 75%	
Marking	CAT.6 UTP PATCH ETL/3P VERIFIED TO ANSI/TIA-568-C.2 & ISO/IEC 11801 ED.2 & EN 50288-6-2 & IEC 60332-1-2 24AWGX4P CM(UL) c(UL) E164469-XX		
	or as customer request.		
Flame Test	Burning five times, every time is less than 60 seconds and paper flag can't be burned.		
(PS): " + " Mould separate			

Category 6 UTP Patch Cable, 24AWG×4P, PVC

APPROVALS:

- UL/cUL Listed
- ETL/3P Certified ANSI/TIA-568-C.2 Category 6 testing performance requirements.

APPLICATIONS:

- 1000BASE-T Gigabit Ethernet
- 10BASE-T, 100BASE-TX Fast Ethernet (IEEE 802.3)
- 100 VG – AnyLAN (IEEE802.12), 155/622 Mbps ATM
- Voice, T1, ISDN

ELECTRICAL PERFORMANCES:

Dielectric Strength of Insulation		2500 V dc / 2 seconds		
Insulation Resistance Test		Min. 5000 MΩ/Km		
Conductor Resistance		Max. 8.76 Ω/100m at 20°C		
Resistance Unbalance		Max. 2%		
Capacitance Unbalance		Max. 160 pF/100m		
Mutual Capacitance		Max. 5600 pF/100m		
Impedance	60kHz	125Ω ± 20%		
	1~250MHz	100Ω ± 15%		
Attenuation & Near End Cross Talk	Frequency (MHz)	Attenuation (dB/100M), Max	NEXT (dB), Min.	PSNEXT (dB), Min.
	1MHz	2.4*	74.3*	72.3*
	4 MHz	4.5*	65.3*	63.3*
	10 MHz	7.1*	59.3*	57.3*
	16 MHz	9.1*	56.2*	54.2*
	20 MHz	10.2*	54.8*	52.8*
	31.25 MHz	12.8*	51.9*	49.9*
	62.5 MHz	18.5*	47.4*	45.4*
	100 MHz	23.8*	44.3*	42.3*
	155 MHz	30.4*	41.4*	39.4*
	200 MHz	34.8*	39.8*	37.8*
	250 MHz	39.4*	38.3*	36.3*

The asterisked (*) value 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:

$$\text{NEXT}(f \text{ MHz}) \geq \text{NEXT}(0.772) - 15 \text{LOG}_{10}(f \text{ MHz}/0.772) \text{ dB}$$

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CONFIGURATION:

orange 2	green 3
white/orange	white/green
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blue 1	brown 4
white/blue	white/brown

