

# Product Specification

## Category 6 U/UTP Patch Cable, 24AWG×4P, LSOH

### 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 2<sup>nd</sup> 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 / 24AWG
	Material	HDPE
	Thickness	Nominal: 0.231 mm
	Diameter	Nominal: 1.02 mm
	Colors	Blue/White-Blue Orange/White-Orange Green/White-Green Brown/White-Brown
	Unaged Elongation	Min. 300%
	Unaged Tensile Strength	Min. 1.683 Kgf/mm <sup>2</sup>
Insulation	Material	LSOH
	Thickness	Nominal: 0.50 mm
	Diameter	Nominal: 5.80 mm
	Color	Assorted upon request
	Unaged Elongation	Min. 125%
	Unaged Tensile Strength	Min. 0.917 Kgf/mm <sup>2</sup>
	Aging at 100°C for 168Hrs	Min. elongation retention:75% Min. tensile strength retention:70%
Jacket	Marking	CAT.6 U/UTP LSOH 24AWGX4P PATCH ETL/3P VERIFIED TO ANSI/TIA-568-C.2 & ISO/IEC 11801 ED.2 & EN 50288-6-2 & IEC 60332-1-2 or as customer request.
	(PS): " + " Mould separate	

### APPROVALS

3P Certified ANSI/TIA-568-C.2 Category 6 Testing Safety/Performance requirements.



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## APPLICATIONS

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

550MHz Broadband Video  
 Voice, T1, ISDN

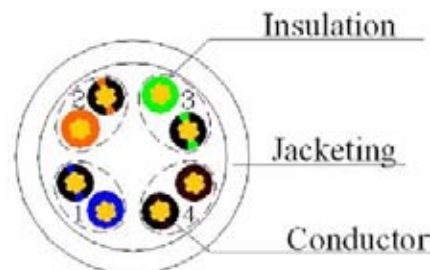
## ELECTRICAL PERFORMANCES

Dielectric Strength of Insulation		2500 V dc / 2 seconds		
Insulation Resistance Test		Min. 5000 MΩ·Km		
Conductor Resistance		Max. 9.38Ω/100m at 20°C		
Resistance Unbalance		Max. 2%		
Capacitance Unbalance		Max. 160 pF/100m		
Mutual Capacitance		Max. 5600 pF/100m		
Impedance	772kHz	125Ω ± 20%		
	1~250MHz	100Ω ± 15%		
Attenuation & Near End Cross Talk	Frequency (MHz)	Max.Attenuation (dB/100 meters)	NEXT (dB), Min.	PSNEXT (dB), Min.
	1 MHz	2.0*	74.3*	72.3*
	4 MHz	3.8*	65.3*	63.3*
	10 MHz	6.0*	59.3*	57.3*
	16 MHz	7.6*	56.2*	54.2*
	20 MHz	8.5*	54.8*	52.8*
	31.25 MHz	10.7*	51.9*	49.9*
	62.5 MHz	15.4*	47.4*	45.4*
	100 MHz	19.8*	44.3*	42.3*
	150 MHz	24.9*	41.4*	39.4*
	200MHz	29.0*	39.8*	37.8*
	250MHz	32.8*	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:  
 $NEXT(f\text{ MHz}) \geq NEXT(0.772) - 15 \text{ LOG}_{10}(f\text{ MHz}/0.772)\text{dB}$

## CONFIGURATION

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



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## COLOR INFORMATION

Part No.	PACKAGING	COLOR		
		Manufacturer standard No.	RAL No.	PANTONE No.
39 3110	305M/Plastic reel in box	GY852	7047	cool gray:3C
39 3111		RD215	3018	198U
39 3112		BU632	-	7468C
39 3113		GN520	-	7482C
39 3114		YE419	1018	129C
39 3316	500M/Wooden drum	PU720	-	7679C
39 3318		OR311	2012	166U