

# 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-568.2-D 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 (EU) 2015/863

### CONSTRUCTION & CHARACTERISTICS

Conductor	Material / Size	Bare Copper / 24AWG
Insulation	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>
Jacket	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%		
Marking	CAT.6 U/UTP LSOH 24AWGX4P PATCH 3P VERIFIED TO ANSI/TIA-568.2-D & ISO/IEC 11801 ED.2 & EN 50288-6-2 & IEC 60332-1-2	
	or as customer request.	
(PS): " + " Mould separate		

3P Certified ANSI/TIA-568.2-D Category 6 Testing Safety/Performance requirements.



## 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

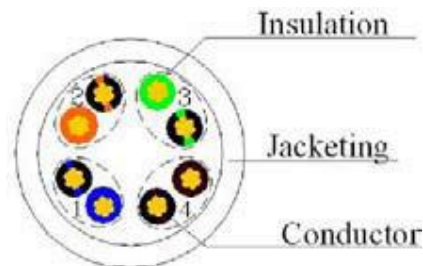
## ELECTRICAL PERFORMANCES

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



## COLOR INFORMATION

Part No.	PACKAGING	COLOR	
		Manufacturer standard No.	RAL/PANTONE No.
39-3110	305M/Plastic reel in box	GY852	RAL9002
39-3111		RD215	Pantone 1795c
39-3112		BU632	Pantone 7701c
39-3113		GN520	RAL6037
39-3114		YE419	Pantone 129c
39-3115		BK012	Pantone Black 6c
39-3116		WH930	between RAL 9002 and RAL 9010
39-3117		PU720	Pantone 7677c
39-3118		OR311	Pantone 7416c