

# Product Specification

## Category 5e U/UTP Patch Cable, 24AWG×4P, LSOH

### STANDARD COMPLIANCES

All Category 5e Requirements as Per ANSI/TIA, ISO/IEC, and CENELEC EN Standards:  
ANSI/TIA-568-C.2 Cat.5e

ISO/IEC 2<sup>nd</sup> Edition 11801 Class D

CENELEC EN 50173-1

IEC 61156-6, CENELEC EN 50288-3-2 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
Insulation	Material	HDPE
	Thickness	Nominal: 0.186 mm
	Diameter	Nominal: 0.96 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: 0.5 mm
	Diameter	Nominal: 5.4 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.5E U/UTP LSOH 24AWGX4P PATCH 3P VERIFIED TO ANSI/TIA-568-C.2 & ISO/IEC 11801 ED.2 & EN 50288-3-2 & IEC 60332-1-2	
	or as customer request.	

### APPROVALS

3P Certified ANSI/TIA-568-C.2 Category 5e testing safety/performance requirements.



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## APPLICATIONS

1000BASE-T 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

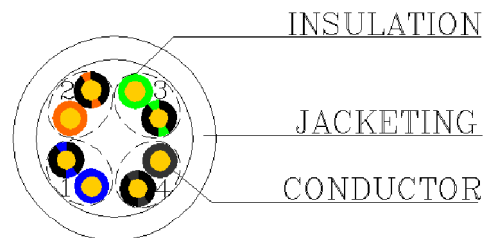
Dielectric Strength of Insulation	2500 V dc / 2 seconds			
Insulation Resistance Test	Min. 5000 MΩ·Km			
Conductor Resistance	Max. 9.38 Ω/100m at 20°C			
Resistance Unbalance	Max. 2%			
Capacitance Unbalance	Max. 160 pF/100m			
Mutual Capacitance	Max. 5600 pF/100m			
Impedance	772kHz	102Ω ± 15%		
	1~125MHz	100Ω ± 15%		
Attenuation & Near End Cross Talk	Frequency (MHz)	Max.Attenuation (dB/100 meters)	NEXT (dB), Min.	PSNEXT (dB), Min.
	1 MHz	2.4*	65.3*	62.3*
	4 MHz	4.9*	56.3*	53.3*
	8 MHz	6.9*	51.8*	48.8*
	10 MHz	7.8*	50.3*	47.3*
	16 MHz	9.9*	47.2*	44.2*
	20 MHz	11.1*	45.8*	42.8*
	25 MHz	12.5*	44.3*	41.3*
	31.25 MHz	14.1*	42.9*	39.9*
	62.5 MHz	20.4*	38.4*	35.4*
	100 MHz	26.4*	35.3*	32.3*
	125MHz	29.8*	33.8*	30.8*

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 7000	305M/Plastic reel in box	GY852	7047	cool gray:3C
39 7001		RD215	3018	198U
39 7002		BU632	-	7468C
39 7003		GN520	-	7482C
39 7004		YE419	1018	129C
39 7010	500M/Wooden drum	GY852	7047	cool gray:3C
39 7011		RD215	3018	198U
39 7012		BU632	-	7468C
39 7013		GN520	-	7482C
39 7014		YE419	1018	129C
39 7016		PU720	-	7679C
39 7018		OR311	2012	166U