

# Product Specification

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

### 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	Flame Retardant PVC
	Thickness	Nominal: 0.5 mm
	Diameter	Nominal: 5.4 mm
	Color	Assorted upon request
	Unaged Elongation	Min. 100%
	Unaged Tensile Strength	Min. 1.407 Kgf/mm <sup>2</sup>
	Aging at 100°C for 168Hrs	Min. elongation retention:50% Min. tensile strength retention:75%
Marking	CAT.5E U/UTP PATCH ETL/3P VERIFIED TO ANSI/TIA-568-C.2 & ISO/IEC 11801 ED.2 & EN 50288-3-2 & IEC 60332-1-2 ▲ 24AWGX4P CMX(UL) c(UL) CMH E164469-XX or as customer request.	

### APPROVALS



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

[UL/cUL Listed](#)

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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

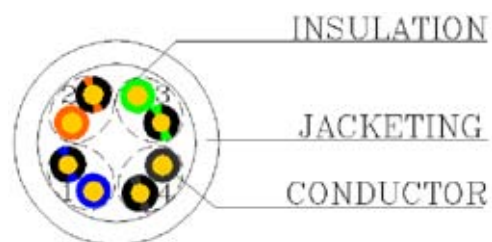
Dielectric Strength of Insulation		2850 V dc / 2 seconds		
Insulation Resistance Test		Min. 5000 MΩ·Km		
Conductor Resistance		Max. 9.38 Ω/100m at 20°C		
Resistance Unbalance		Max. 2%		
Capacitance Unbalance		Max. 160 pF/100m		
Mutual Capacitance		Max. 5600 pF/100m		
Impedance	772kHz	102Ω ± 15%		
	1~125MHz	100Ω ± 15%		
Attenuation & Near End Cross Talk	Frequency	Max.Attenuation	NEXT	PSNEXT
	(MHz)	(dB/100 meters)	(dB), Min.	(dB), Min.
	1 MHz	2.0*	65.3*	62.3*
	4 MHz	4.1*	56.3*	53.3*
	8 MHz	5.8*	51.8*	48.8*
	10 MHz	6.5*	50.3*	47.3*
	16 MHz	8.2*	47.2*	44.2*
	20 MHz	9.3*	45.8*	42.8*
	25 MHz	10.4*	44.3*	41.3*
	31.25 MHz	11.7*	42.9*	39.9*
	62.5 MHz	17.0*	38.4*	35.4*
	100 MHz	22.0*	35.3*	32.3*
125 MHz	24.9*	33.8*	30.8*	

The asterisk (\*) 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:

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

## 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 3518	500M/Wooden drum	OR307	2000	1585U
39 3519		RD220	4003	238C
39 3520		BK012	9011	426C
39 3521		WH928	9003	476C
39 3525		GY825	7044	cool gray : 4C
39 3526		RD210	3031	186C
39 3527		GN509	6016	3415C
39 3528		BU608	5012	7462C
39 3529		YE406	1023	143C
39 3530		PU720	4005	7665C
39 3617		305M/Plastic reel in box	BR020	8023
39 3618	OR307		2000	1585U
39 3619	RD220		4003	238C
39 3620	BK012		9011	426C
39 3621	WH928		9003	476C
39 3625	GY825		7044	cool gray : 4C
39 3626	RD210		3031	186C
39 3627	GN509		6016	3415C
39 3628	BU608		5012	7462C
39 3629	YE406		1023	143C
39 3630	PU720		4005	7665C