

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 2nd 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%
Jacket	Unaged Tensile Strength	Min.1.683 Kgf/mm ²
	Material	Flame Retardant PVC
	Thickness	Nominal: 0.5 mm
	Diameter	Nominal: 5.4 mm
	Color	Grey
	Unaged Elongation	Min. 100%
	Unaged Tensile Strength	Min. 1.407 Kgf/mm ²
	Aging at 100 °C for 168Hrs	Min. elongation retention:50% Min. tensile strength retention:75%
Marking		roline UTP CAT.5E PATCH ISO/IEC 11801 & EN 50288 & ANSI/TIA-568-C.2 24AWGX4P TYPE CMX(UL) c(UL) CMH E164469-XX XXXXXXXXM

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ITEM	21.15.0518		
ROLINE Cat. 5e UTP Cable, Stranded, 100m			
SCALE		CHECKER	DATE
UNIT		APPROVAL	DATE

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

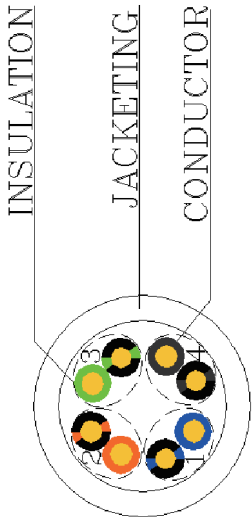
Dielectric Strength of Insulation		2850 V dc / 2 seconds	
Insulation Resistance Test		Min. 5000 MΩ·Km	
Conductor Resistance		Max. 9.38 Ω/100m at 20°C	
Resistance Unbalance		Max. 2%	
Capacitance Unbalance		Max. 160 pF/100m	
Mutual Capacitance		Max. 5600 pF/100m	
Impedance	772kHz	102Ω ± 15%	
	1~125MHz	100Ω ± 15%	
	Frequency (MHz)	Max.Attenuation (dB/100 meters)	NEXT (dB), Min. PSNEXT (dB), Min.
Attenuation & Near End Cross Talk	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 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:

$NEXT(f\text{ MHz}) \geq NEXT(0.772)-15LOG10(f\text{ MHz}/0.772)dB$

CONFIGURATION:

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



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