Category 6 UTP stranded Cable, 24AWG×4P, PVC

Product Specification

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 2nd 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 / 24 AWG
Insulation	Material	HDPE
	Thickness	Nominal : 0.221 mm
	Diameter	Nominal : 1.03 mm
	Colors	Blue/White-Blue Orange/White-Orange
		Green/White-Green Brown/White-Brown
	Unaged Elongation	Min. 300%
	Tensile Strength	Min. 1.683 Kgf/mm²
Jacket	Material	PVC
	Thickness	Nominal : 0.50 mm
	Diameter	Nominal : 6.4 mm
	Color	Assorted upon request
	Unaged Elongation	Min. 100%
	Tensile Strength	Min. 1.407 Kgf/mm²
	Aging at 100℃ for 168Hrs	Min. elongation retention: 50% Min. tensile strength retention: 75%
Marking		CAT.6 UTP PATCH ETL/3P VERIFIED TO ANSI/TIA-568-C.2 & ISO/IEC 11801 ED.2 & EN 50288-6-2 & IEC 60332-1-2 24AWGX4P CM(UL) c(UL) E164469-XX, or as customer request.
		Burning five times, every time is less than 60 seconds and paper flag can't be burned.
Flame Test		Burning five times, every time is less than 60 seconds and paper flag can't be burned.
(PS): " ┼" Mould separate		

APPROVALS:

- UL/cUL Listed
- ETL/3P Certified ANSI/TIA-568-C.2 Category 6 testing performance requirements.

APPLICATIONS:

- 1000BASE-T Gigabit Ethernet
- 10BASE-T, 100BASE-TX Fast Ethernet (IEEE 802.3)
- 100 VG – AnyLAN (IEEE802.12), 155/622 Mbps ATM
- Voice, T1, ISDN

ELECTRICAL PERFORMANCES:

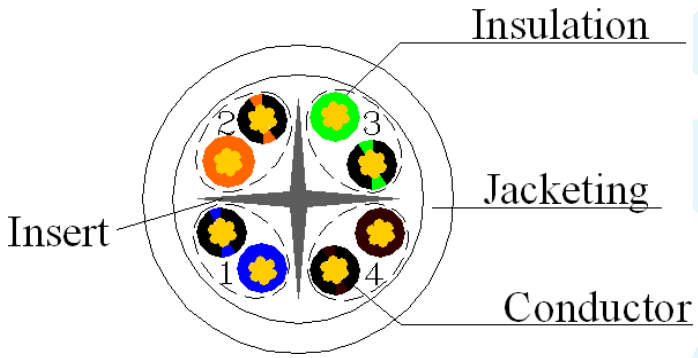
Dielectric Strength of Insulation		2500 V dc / 2 seconds		
Insulation Resistance Test		Min. 5000 MΩ/Km		
Conductor Resistance		Max. 8.76 Ω/100m at 20℃		
Resistance Unbalance		Max. 2%		
Capacitance Unbalance		Max. 160 pF/100m		
Mutual Capacitance		Max. 5600 pF/100m		
Impedance	60kHz	125Ω ± 20%		
	1~250MHz	100Ω ± 15%		
Attenuation & Near End Cross Talk	Frequency (MHz)	Attenuation (dB/100M), Max	NEXT (dB), Min.	PSNEXT (dB), Min.
	1MHz	2.4*	74.3*	72.3*
	4 MHz	4.5*	65.3*	63.3*
	10 MHz	7.1*	59.3*	57.3*
	16 MHz	9.1*	56.2*	54.2*
	20 MHz	10.2*	54.8*	52.8*
	31.25 MHz	12.8*	51.9*	49.9*
	62.5 MHz	18.5*	47.4*	45.4*
	100 MHz	23.8*	44.3*	42.3*
	155 MHz	30.4*	41.4*	39.4*
	200 MHz	34.8*	39.8*	37.8*
	250 MHz	39.4*	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 MHZ)≧NEXT(0.772)-15LOG10(f MHZ/0.772)dB

CONFIGURATION:

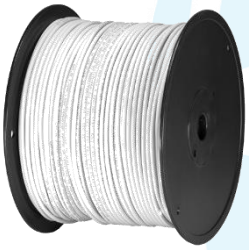
orange 2 white/orange	green 3 white/green
blue 1 white/blue	brown 4 white/brown



Possible color options*:

Blue

White



Pink

Orange

Purple

Grey

Red

Green

Yellow

*Remark: Pictures shown are for illustration purposes only, and can differ from actual product. Wooden reels can be used some times.