

## Category 6A UTP Patch Cable, 24AWGx4P, PVC

### STANDARD COMPLIANCES

All Proposed Category 6A requirements as per ANSI/TIA, ISO/IEC, and CENELEC EN standards.  
 ANSI/TIA-568-C.2 Cat.6A  
 ISO/IEC 2<sup>nd</sup> Edition 11801 Class EA  
 CENELEC EN 50173-1, CENELEC EN 50288-10-2, 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 / 24AWG
Insulation	Material	HDPE
	Thickness	Nominal: 0.20 mm
	Diameter	Nominal: 1.0 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
Thickness		Nominal: 0.65 mm
Diameter		Nominal: 7.5 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	YFC CAT.6A UTP PATCH CONFORM TO ANSI/TIA-568-C.2 24AWGX4P CM(UL) c(UL) E164469-XX	
	or as customer request.	

NOTE: “ + ”Mould separate

### APPROVALS

UL/cUL Listed



### APPLICATIONS

10GBASE-T Ethernet	100BASE-TX Fast Ethernet
1000BASE-TX Gigabit Ethernet	10BASE-TX Ethernet
ATM CB1G	155/622 Mbps ATM
1000BASE-T Gigabit Ethernet	100 Mbps TP-PMD
100VG-AnyLAN	4/16 Mbps Token Ring

## 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	64kHz	125Ω ± 20%		
	1~500MHz	100Ω ± 15%		
Attenuation & Near End Cross Talk	Frequency (MHz)	Max.Attenuation (dB/100 meters)	NEXT (dB), Min	PSNEXT (dB), Min
	1 MHz	2.5*	74.3*	72.3*
	10 MHz	7.1*	59.3*	57.3*
	100 MHz	23.0*	44.3*	42.3*
	200 MHz	33.1*	39.8*	37.8*
	250 MHz	37.3*	38.3*	36.3*
	300 MHz	41.1*	37.1*	35.1*
	400 MHz	51.2*	35.3*	33.3*
	500 MHz	54.3*	33.8*	31.8*

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:  
 $NEXT \geq 31 - 50 \log_{10}(f \text{ MHz} / 330) \text{ dB}$

## CONFIGURATION

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

