

PRODUCT SPECIFICATION

STANDARD COMPLIANCES:

All Proposed Category 6 requirements as per ANSI/TIA/EIA, ISO/IEC, and CENELEC EN Standards:

ANSI/TIA/EIA 568-B.2-1 CAT.6

2nd Edition ISO/IEC 11801 Class E

CENELEC EN 50173-1

IEC 61156-6,CENELEC EN 50288-6-2 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 / 24 AWG	
Insulation	Material	HDPE	
	Thickness	Normal Avg.: 0.221 mm	
	Diameter	Normal : 1.03 mm	
	Colors	Blue/White-Blue	Orange/White-Orange
		Green/White-Green	Brown/White-Brown
	Elongation	Min. 300%	
	Tensile Strength	Min. 1.683 Kg/mm ²	
Sheath	Material	PVC	
	Thickness	Average: 0.50 mm	
	Diameter	6.4 ± 0.3 mm	
	Color	Assorted upon request	
	Elongation	Min. 100%	
	Tensile Strength	Min. 1.407 Kg/mm ²	
	Aging at 100°C for 168Hrs	Min. elongation retention: 50% Min. tensile strength retention: 75%	
Marking	YFC CAT.6 UTP PATCH CABLE ETL VERIFIED to TIA/EIA-568-B.2-1 - ISO/IEC 11801 ED.2 & EN 50288 3P VERIFIED - 24AWGx4P xx°C CM (UL) c(UL) E164469		
	or as customer request.		
Flame Test	Burning five times, every time is less than 60 seconds and paper flag can't be burned.		

APPROVALS:

- UL/cUL Listed
- 3P Certified ANSI/TIA/EIA-568-B.2-1 Category 6 testing performance requirements.

APPLICATIONS:

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

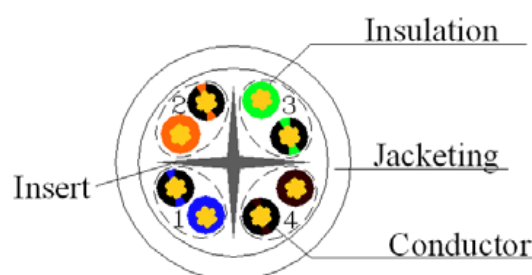
ELECTRICAL PERFORMANCES:

Spark Test		2000 ± 250 V ac		
Dielectric Strength		2500 V dc / 3 seconds		
Insulation Resistance Test		Min. 150 MΩ/Km		
Conductor Resistance		Max. 9.38 Ω/100m at 20°C		
Resistance Unbalance		Max. 5%		
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	Power Sum (dB), Min
	1MHz	--	66.0*	64.0*
	4 MHz	4.6*	65.3*	63.3*
	10 MHz	7.2*	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	18.6*	47.4*	45.4*
	100 MHz	23.9*	44.3*	42.3*
	155 MHz	30.4*	41.4*	39.4*
	200 MHz	35.1*	39.8*	37.8*
	250 MHz	39.6*	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:
 $NEXT(f \text{ MHz}) \geq NEXT(0.772) - 15 \log_{10}(f \text{ MHz} / 0.772)$

CONFIGURATION:

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



Although every precaution has been taken to ensure the accuracy of the product specifications at the time of publication, we cannot be responsible for the errors, omissions, or changes due to obsolescence. All data contained herein is subject to change without notice.