

Category 6 PIMF Patch Cable, 26AWG×4P,PVC

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, IEC 61156-6, CENELEC EN 50288-5-2 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 / 26AWG
Insulation	Material	Foam-Skin PE
	Thickness	Nominal: 0.27 mm
	Diameter	Nominal: 1.08 mm
	Colors	Blue/White Orange/White Green/White Brown/White
	Unaged Elongation	Min. 100%
	Unaged Tensile Strength	Min. 0.816 Kgf/mm ²
Screen	Material	Aluminum-Mylar tape and tinned copper braid
Jacket	Material	Flame Retardant PVC
	Thickness	Nominal: 0.50 mm
	Diameter	Nominal: 5.7 mm
	Color	Assorted upon request
	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	YFC CAT.6 SSTP PATCH 3P VERIFIED TO ANSI/TIA-568-C.2 & ISO/IEC 11801 ED.2 & EN 50288-5-2 & IEC 60332-1-2 26AWGX4P CM(UL) c(UL) E164469-XX or as customer request.	

APPROVALS

UL/cUL Listed

3P Certified ANSI/TIA-568-C.2 Category 6 Testing Performance requirements.



APPLICATIONS

1000BASE-TX 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

Dielectric Strength of Insulation		1500 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	125Ω ± 20%		
	1~250MHz	100Ω ± 15%		
Attenuation & Near End Cross Talk	Frequency (MHz)	Max.Attenuation (dB/100 meters)	NEXT (dB), Min.	PSNEXT (dB), Min.
	1 MHz	2.4*	74.3*	72.3*
	4 MHz	4.5*	65.3*	63.3*
	10 MHz	7.1*	59.3*	57.3*
	16 MHz	9.7*	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*
	150 MHz	29.7*	41.4*	39.4*
	200MHz	34.8*	39.8*	37.8*
	250MHz	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:
 $NEXT(f\text{ MHz}) = NEXT(0.772) - 15\text{LOG}_{10}(f\text{ MHz}/0.772)\text{dB}$

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

