

Category 5e FTP Patch Cable, 26AWG×4P, PVC

STANDARD COMPLIANCES

All Proposed 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

IEC 61156-6, 2nd Edition CENELEC EN 50288-2-2 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
		Nominal Diameter: 7/0.16 mm
Insulation	Material	HDPE
	Thickness	Nominal: 0.21 mm
	Diameter	Nominal: 0.91 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/mm²
Screen	Material	Aluminum-Mylar tape
Drain Wire	Material	Tinned copper
Jacket	Material	Flame Retardant PVC
	Thickness	Nominal: 0.52 mm
	Diameter	Nominal: 5.6 mm
	Color	Yellow
	Unaged Elongation	Min. 100%
	Unaged Tensile Strength	Min. 1.407 Kgf/mm²
	Aging at 100°C for 168Hrs	Min. elongation retention: 50%
		Min. tensile strength retention: 75%
Marking		CAT.5E FTP PATCH CONFORM TO ANSI/TIA-568-C.2 & ISO/IEC 11801 ED.2 & EN 50288-2-2 & IEC 60332-1-2 26AWGX4P

APPLICATIONS

1000BASE-T Gigabit Ethernet
 10BASE-T, 100BASE-TX Fast Ethernet (IEEE 802.3)
 550MHz Broadband Video
 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. 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%		
Attenuation & Near End Cross Talk	Frequency	Max. Attenuation	NEXT	PSNEXT
	(MHz)	(dB/100 meters)	(dB), Min.	(dB), Min.
	1 MHz	-	65*	62*
	4 MHz	6.4*	56*	53*
	8 MHz	8.9*	51*	48*
	10 MHz	9.9*	50*	47*
	16 MHz	12.3*	47*	44*
	20 MHz	13.8*	45*	42*
	25 MHz	16.0*	44*	41*
	31.25 MHz	17.1*	42*	39*
	62.5 MHz	25.6*	38*	35*
	100 MHz	33.0*	35*	32*
	125 MHz	37.4*	34*	31*

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:

$$NEXT(f \text{ MHz}) \geq NEXT(0.772) - 15 \log_{10}(f \text{ MHz} / 0.772) \text{ dB}$$

CONFIGURATION

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

