

Category 5e F/UTP Patch Cable, 26AWG×4P, LSOH

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

Our products always comply with RoHS and REACH Directives.

CONSTRUCTION & CHARACTERISTICS

Conductor	Material / Size	Bare Copper / 26AWG
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/mm ²
Screen	Material	Aluminum-Mylar tape
Drain Wire	Material	Tinned copper
Jacket	Material	LSOH
	Thickness	Nominal: 0.52 mm
	Diameter	Nominal: 5.6 mm
	Color	Assorted upon request
	Unaged Elongation	Min. 125%
	Unaged Tensile Strength	Min. 0.917 Kgf/mm ²
	Aging at 100°C for 168Hrs	Min. elongation retention:75% Min. tensile strength retention:70%
Marking		YFC CAT.5E FTP LSOH 26AWGX4P PATCH 3P VERIFIED TO ANSI/TIA-568-C.2 & ISO/IEC 11801 ED.2 & EN 50288-2-2 & IEC 60332-1-2
		or as customer request.

APPROVALS

3P Certified ANSI/TIA-568-C.2 Category 5e testing performance requirements.



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		1200 V dc or 850 V ac / 2 seconds		
Insulation Resistance Test		Min. 5000 MΩ/m		
Conductor Resistance		Max. 14.0 Ω/100m at 20°C		
Resistance Unbalance		Max. 2%		
Capacitance Unbalance		Max. 160 pF/100m		
Mutual Capacitance		Max. 5600 pF/100m		
Impedance	1~100MHz	100Ω ± 15%		
Attenuation & Near End Cross Talk	Frequency	Max.Attenuation	NEXT	PSNEXT
	(MHz)	(dB/100 meters)	(dB), Min.	(dB), Min.
	1 MHz	2.4*	65.3*	62.3*
	4 MHz	4.9*	56.3*	53.3*
	10 MHz	7.8*	50.3*	47.3*
	16 MHz	9.9*	47.2*	44.2*
	20 MHz	11.1*	45.8*	42.8*
	31.25 MHz	14.1*	42.9*	39.9*
	62.5 MHz	20.4*	38.4*	35.4*
	100 MHz	26.4*	35.3*	32.3*
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: $NEXT(f\text{ MHz}) \geq NEXT(0.772) - 15 \log_{10}(f\text{ MHz}/0.772) \text{ dB}$				

CONFIGURATION

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

