

Category 5e FTP Horizontal Cable, 24AWG×4P

STANDARD COMPLIANCES

All 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

CENELEC EN 50173-1

CENELEC EN 50288-2-1 for horizontal 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	
		Nominal Diameter: 1/0.517 mm	
Insulation	Material	Foam-Skin PE	
	Thickness	Nominal: 0.269 mm	
	Diameter	Nominal: 1.055 mm	
	Colors	Blue/White-Blue Orange/White-Orange	
		Green/White-Green Brown/White-Brown	
	Unaged Elongation	Min. 100%	
	Unaged Tensile Strength	Min. 0.816 Kg/mm ²	
Screen	Material	Aluminum-Mylar tape	
Drain Wire	Material	Tinned copper	
Jacket	Material	Flame Retardant PVC	LS0H
	Thickness	Nominal: 0.50 mm	Nominal: 0.50 mm
	Diameter	Nominal: 6.0 mm	Nominal: 6.0 mm
	Color	Gray	Gray
	Unaged Elongation	Min. 100%	Min. 125%
	Unaged Tensile Strength	Min. 1.407 Kg/mm ²	Min. 0.917 Kg/mm ²
	Aging at 100°C for 168Hrs	Min. elongation retention:50% Min. tensile strength retention:75%	Min. elongation retention:75% Min. tensile strength retention:70%
Marking		PVC:CAT.5E FTP INSTALLATION CONFORM TO ANSI/TIA-568-C.2 & ISO/IEC 11801 ED.2 & EN 50288-2-1 & IEC 60332-1-2 24AWG×4P [XXXXXXM]	
		LSOH: CAT.5E FTP LSOH 24AWG×4P INSTALLATION CONFORM TO ANSI/TIA-568-C.2 & ISO/IEC 11801 ED.2 & EN 50288-2-1 & IEC 60332-1-2 [XXXXXXM]	

APPLICATIONS

1000BASE-T Gigabit Ethernet
 10BASE-T, 100BASE-TX Fast Ethernet (IEEE 802.3)
 100 VG - AnyLAN(IEEE802.12), 155 Mbps ATM
 550 MHz Broadband Video
 Voice, T1, ISDN

ELECTRICAL PERFORMANCES

Dielectric Strength of Insulation		1200 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 (MHz)	Max.Attenuation (dB/100 meters)	NEXT (dB), Min.	PSNEXT (dB), Min.
	1 MHz	2.0*	65.3*	62.3*
	4 MHz	4.1*	56.3*	53.3*
	8 MHz	5.8*	51.8*	48.8*
	10 MHz	6.5*	50.3*	47.3*
	16 MHz	8.2*	47.2*	44.2*
	20 MHz	9.3*	45.8*	42.8*
	25 MHz	10.4*	44.3*	41.3*
	31.25 MHz	11.7*	42.9*	39.9*
	62.5 MHz	17.0*	38.4*	35.4*
	100 MHz	22.0*	35.3*	32.3*
	125 MHz	24.9*	33.8*	30.8*

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:

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

CONFIGURATION

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

