

Category 6 U/FTP Horizontal Cable, 23AWG×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, CENELEC EN 50288-5-1, IEC 61156-5 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 / 23AWG
		Nominal Diameter: 1/0.56 mm
Insulation	Material	Foam-Skin PE
	Thickness	Nominal: 0.414 mm
	Diameter	Nominal: 1.387 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
	Thickness	Nominal: 0.50 mm
	Diameter	Nominal: 7.2 mm
	Color	Gray
	Unaged Elongation	Min. 100%
	Unaged Tensile Strength	Min. 1.407 Kg/mm ²
	Aging at 100°C for 168Hrs	Min. elongation retention:50%
		Min. tensile strength retention:75%
Marking		CAT.6 U/FTP INSTALLATION 23AWGX4P CONFORM TO ANSI/TIA-568-C.2 & ISO/IEC 11801 ED.2 & EN 50288-5-1 & IEC 60332-1-2 [XXXXXXM]

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

ELECTRICAL PERFORMANCES

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	Max. Attenuation	NEXT	RL
	(MHz)	(dB/100 meters)	(dB), Min.	(dB), Min.
	1 MHz	2.0*	74.3*	20.0*
	4 MHz	3.8*	65.3*	23.0*
	10 MHz	6.0*	59.3*	25.0*
	16 MHz	7.6*	56.2*	25.0*
	20 MHz	8.5*	54.8*	25.0*
	31.25 MHz	10.7*	51.9*	23.6*
	62.5 MHz	15.4*	47.4*	21.5*
	100 MHz	19.8*	44.3*	32.3*
	150 MHz	24.9*	41.4*	30.8*
	200MHz	29.0*	39.8*	18.0*
	250MHz	32.8*	38.3*	17.3*

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	

