

Category 6A S-STP Horizontal Cable, 23AWGx4P, LSOH

STANDARD COMPLIANCES

All Proposed Category 6A Requirements as Per ANSI/TIA, ISO/IEC, and CENELEC EN Standards.

ANSI/TIA-568-C.2 Cat.6A

ISO/IEC 2nd Edition 11801 Class EA

CENELEC EN 50173-1, CENELEC EN 50288-10-1

IEC 61935-1 3rd Edition, IEC 2nd Edition 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: 1/0.583
Insulation	Material	Foam-Skin PE
	Thickness	Nominal: 0.419 mm
	Diameter	Nominal: 1.42 mm
	Colors	Blue/White Orange/White
		Green/White Brown/White
	Unaged Elongation	Min. 100%
	Unaged Tensile Strength	Min. 0.816 Kgf/mm²
Screen	Material	Aluminum-Mylar tape and tinned copper braid
Jacket	Material	LSOH
	Thickness	Nominal: 0.5 mm
	Diameter	Nominal: 7.4 mm
	Color	Gray
	Unaged Elongation	Min. 125%
	Unaged Tensile Strength	Min. 0.917 Kgf/mm²
	Aging at 100°C for 168Hrs	Min. elongation retention: 75%
		Min. tensile strength retention: 70%
Marking	CAT.6A SSTP LSOH 23AWGX4P INSTALLATION CONFORM TO ISO/IEC 11801 ED.2 & ANSI/TIA-568-C.2 & IEC 60332-1-2 [XXXXXXXXM]	

APPLICATIONS

10GBASE-T Ethernet	100BASE-TX Fast Ethernet
1000BASE-T Gigabit Ethernet	1000BASE-TX Gigabit Ethernet
10BASE-TX Ethernet	ATM CB1G
155/622 Mbps ATM	100 Mbps TP-PMD
100VG-AnyLAN	4/16 Mbps Token Ring

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	64kHz	125Ω ± 20%		
	1~500MHz	100Ω ± 15%		
Attenuation & Near End Cross Talk	Frequency	Max. Attenuation	NEXT	PSNEXT
	(MHz)	(dB/100 meters)	(dB), Min	(dB), Min
	1 MHz	2.1*	74.3*	72.3*
	10 MHz	5.9*	59.3*	57.3*
	100 MHz	19.1*	44.3*	42.3*
	200 MHz	27.6*	39.8*	37.8*
	250 MHz	31.1*	38.3*	36.3*
	300 MHz	34.3*	37.1*	35.1*
	400 MHz	40.1*	35.3*	33.3*
	500 MHz	45.3*	33.8*	31.8*
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: $NEXT \geq 31 - 50 \log_{10}(f \text{ MHz} / 330) \text{ dB}$				

CONFIGURATION

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

