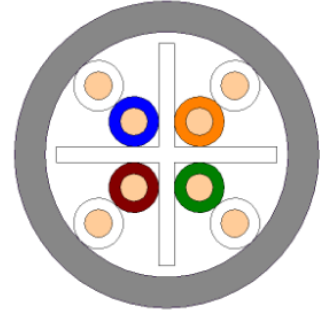




Category 6A UTP Horizontal Cable, 23AWGx4P, LSOH BC-305-UU6A-HF

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 3rd Edition 61935-1, 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
Insulation	Material	HDPE
	Thickness	Nominal: 0.22 mm
	Diameter	Nominal: 1.0 mm
	Colors	Blue/White-Blue Orange/White-Orange Green/White-Green Brown/White-Brown
	Unaged Elongation	Min. 300%
	Unaged Tensile Strength	Min. 1.683 Kg/mm ²
Screen	Material	Aluminum-Mylar tape and tinned copper braid
Jacket	Material	LSOH
	Thickness	Nominal: 0.65 mm
	Diameter	Nominal: 7.5 mm
	Color	Assorted upon request
	Unaged Elongation	Min. 125%
	Unaged Tensile Strength	Min. 0.917 Kg/mm ²
Marking	Aging at 100°C for 168Hrs	Min. elongation retention: 75% Min. tensile strength retention: 70%
		BEEK CAT.6A UTP 24AWGX4P INSTALLATION ETL VERIFIED TO ANSI/TIA-568-C.2 E164469-XX or as customer request.

ETL Verified to ANSI/TIA-568-C.2 for Cat.6A Single Cable w/o Alien Crosstalk



APPLICATIONS

10GBASE-T Ethernet	100BASE-TX Fast Ethernet	1000BASE-TX Gigabit Ethernet	10BASE-TX
Ethernet ATM CB1G	155/622 Mbps ATM	1000BASE-T Gigabit Ethernet	100 Mbps TP-
PMD100VG-AnyLAN	4/16 Mbps Token Ring Voice ,T1, ISDNN		

ELECTRICAL

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	125Ω ± 20%		
	1~500MHz	100Ω ± 15%		
Attenuation & Near End Cross Talk	Frequency (MHz)	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: $NEXT(f \text{ MHz}) \geq NEXT(0.772) - 15 \log_{10}(f \text{ MHz} / 0.772) \text{ dB}$				