

Product Specification

DESCRIPTION:

Cabling Segment	Approved Products
Work Area / Patch Cord	Cat.6A Shielded Patch Cords
Work Jack / Consolidation Point	Cat.6A Shielded 180° Keystone Jacks
Consolidation Point Cabling / Horizontal Cabling	Cat.6A U/FTP Horizontal Cable
Telecommunications Rooms/Patch Panel	Cat.6A Unloaded Patch Panel

CAT.6A U/FTP HORIZONTAL CABLE

FEATURES:

1. Performance conforms to Cat.6A Link/Channel requirements of ANSI/TIA 568.C-2, ISO/IEC 11801, CENELEC EN 50173 and IEEE 802.3an.
2. Manufactured with lead-free materials.
3. Overall screened construction of the pairs ensures virtually zero alien crosstalk.

CONFIGURATION & PHYSICAL CHARACTERISTICS:

Conductor	Material	Bare Copper	
	Size	23 AWG	
Insulation	Material	Foam-Skin PE	
	Thickness	Average: 0.414 mm Min. at any point: 0.364mm	
	Diameter	1.35 ± 0.05 mm	
	Colors	Blue/White	Orange/White
		Green/White	Brown/White
	Elongation	Min. 150 %	
	Tensile Strength	Min. 0.51 Kg/mm ²	
Inner-Shield	Aluminum-Mylar	An aluminum foil screen around each pair	
Sheath	Material	PVC	LS0H
	Thickness	Average: 0.55 mm ± 0.05 mm	Average: 0.55 mm
	Diameter	7.4 ± 0.5 mm	7.4 ± 0.5 mm
	Color	Assorted upon request	Assorted upon request

Cat.6A U/FTP Channel Cabling 10 Gigabit Transmission

ACnetPLUS
CABLING SYSTEM

	Elongation	Min. 100%	Min. 125%
	Tensile Strength	Min. 1.407 Kg/mm ²	Min. 0.917 Kg/mm ²
	Aging at 100 for 168Hrs	Min. elongation retention:50% Min. tensile strength retention:75%	Min. elongation retention:75% Min. tensile strength retention:70%
	Marking	According to Production Specifications	
	Flame Test	Burning five times, every time is less than 60 seconds and paper flag can't be burned.	

ELECTRICAL CHARACTERISTICS:

Spark Test		2000 ± 250 V ac		
Dielectric Strength		2500 V dc / 3 seconds		
Insulation Resistance Test		Min. 150 MΩ/Km		
Conductor Resistance		Max. 9.38Ω/100m		
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 (MHz)	Attenuation (dB/100 meters at 20 °C), Max	NEXT (dB), Min	PS NEXT (dB), Min
	1MHz	2.1*	74.3*	72.3*
	10MHz	5.9*	59.3*	57.3*
	100MHz	19.1*	44.3*	42.3*
	200MHz	27.6*	39.8*	37.8*
	250MHz	31.1*	38.3*	36.3*
	300MHz	34.3*	37.1*	35.1*
	400MHz	40.1*	35.3*	33.3*
	500MHz	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. $NEXT \geq 31 - 50 \log_{10}(f \text{ MHz}/330)$