Product Specification

STANDARD COMPLIANCES:

All Proposed Category 6 requirements as per ANSI/TIA, ISO/IEC, and CENELEC EN Standards.

ANSI/TIA-568-B.2-1 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 / 23 AWG
Insulation	Material	Foam-Skin PE
	Thickness	Nominal : 0.414mm
	Diameter	Nominal : 1.387mm
	Colors	Blue/White Orange/White
		Green/White Brown/White
	Elongation	Min. 150 %
	Tensile Strength	Min. 0.51 Kg/mm²
Inner-Shield	Aluminum-Mylar	An aluminum foil screen around each pair
Braid	Material	Tinned Copper /In accordance with the norms of production
Jacket	Material	PVC
	Thickness	Nominal : 0.54 mm
	Diameter	7.2 ± 0.3 mm
	Color	Assorted upon request
	Elongation	Min. 100%
	Tensile strength	Min. 1.407 Kg/mm²
	Aging at 100°C for 168Hrs	Min. elongation retention:50% Min. tensile strength retention:75%
Marking		CAT.6 SSTP INSTALLATION CABLE 3P VERIFIED to ANSI/TIA-568-B.2-1 & ISO/IEC 11801 ED.2 & IEC 61156-5 & EN 50288-5-1 & EN 50173-1 & IEC 60332-1-2 23AWGx4P TYPE CM (UL) c(UL) xx°C E164469-xx [XXXXXM]
		or as customer request.
Flame Test		Burning five times, every time is less than 60 second and paper flag can't be burned.

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APPROVALS:

- UL/cUL Listed
- 3P Certified ANSI/TIA-568-B.2-1 Category 6 Testing Performance requirements.

APPLICATIONS:

- 1000BASE-Tx Gigabit Ethernet
- 10BASE-T, 100BASE-T Fast Ethernet (IEEE 802.3)
- 100 VG - AnyLAN(IEEE802.12), 155/622 Mbps ATM
- 550 MHz Broadband Video
- Voice, T1, ISDN

ELECTRICAL CHARACTERS:

Spark Test		1050 V ac		
Dielectric Strength		2500 V dc / 3 seconds		
Insulation Resistance Test		Min. 150 MΩ/Km		
Conductor Resistance		Max.6.8 Ω/100m at 20℃		
Resistance Unbalance		Max. 2%		
Capacitance Unbalance		Max. 160 pF/100m		
Mutual Capacitance		Max. 5600 pF/100m		
Impedance	64kHz	125Ω ± 20%		
	1~250MHz	100Ω ± 15%		
Attenuation & Near End Cross Talk	Frequency (MHz)	Attenuation (dB/100 meters at 20℃), Max.	NEXT (dB), Min.	Power Sum (dB), Min.
	1MHz	2.1*	66.0*	64.0*
	4 MHz	3.8*	65.3*	63.3*
	10 MHz	6.0*	59.3*	57.3*
	16 MHz	7.6*	56.2*	54.2*
	20 MHz	8.5*	54.8*	52.8*
	31.25 MHz	10.7*	51.9*	49.9*
	62.5 MHz	15.5*	47.4*	45.4*
	100 MHz	19.9*	44.3*	42.3*
	150 MHz	24.86*	41.4*	39.4*
	200MHz	29.2*	39.8*	37.8*
	250MHz	33.0*	38.3*	36.3*

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 MHZ)≥NEXT(0.772)-15LOG10(f MHZ/0.772)dB

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