Product Specification

STANDARD COMPLIANCES:

All Proposed Category 7 requirements as per ANSI/TIA, ISO/IEC, and CENELEC EN Standards.

ANSI/TIA-568-B.2-1 CAT.7

ISO/IEC 2nd Edition 11801 CLASS F

CENELEC EN 50173-1

CENELEC 2nd Edition EN 50288-4-1,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 : 0.419 mm
	Diameter	Nominal : 1.42 mm
	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 : 0.50 mm
	Diameter	7.4 ± 0.3 mm
	Color	Assorted upon request
	Elongation	Min. 100%
	Tensile strength	Min. 1.407 Kg/mm²
	Aging at 100℃ for 168Hrs	Min. elongation retention:50% Min. tensile strength retention:75%
Marking		CAT.7 SSTP INSTALLATION CABLE 3P VERIFIED to ANSI/TIA-568-B.2-1 & ISO/IEC 11801 ED.2 & IEC 61156-5 & EN 50288-4-1 & EN 50173-1 & IEC 60332-1-2 23AWGx4P TYPE CM (UL) c(UL) xx℃ 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.

VIDEO PRODUCTS INCORPORATED
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Product Specification

APPROVALS:

- 3P Certified ISO/IEC 11801, 2nd Edition & EN 50173-1 Category 7 Testing performance requirements.

APPLICATIONS:

- 10GBASE-T Ethernet
- 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

ELECTRICAL PERFORMANCE:

Spark Test		1050 V ac		
Dielectric Strength		2500 V dc / 3 seconds		
Insulation Resistance Test		Min. 150 MΩ/Km		
Conductor Resistance		Max.9.38 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%		
	300~600MHz	100Ω ± 25%		
Attenuation & Near End Cross Talk	Frequency (MHz)	Attenuation (dB/100 meters at 20℃), Max.	NEXT (dB), Min.	Power Sum (dB), Min.
	1MHz	2.0*	80.0*	77.0*
	4MHz	3.7*	80.0*	77.0*
	10MHz	5.9*	80.0*	77.0*
	16MHz	7.4*	80.0*	77.0*
	20MHz	8.3*	80.0*	77.0*
	31.25MHz	10.4*	80.0*	77.0*
	62.5MHz	14.9*	75.5*	72.5*
	100MHz	19.0*	72.4*	69.4*
	155MHz	24.0*	69.5*	66.5*
	200MHz	27.5*	67.9*	64.9*
	300MHz	34.2*	65.2*	62.2*
	600MHz	50.10*	60.7*	57.7*

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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