

Product Specification

APPROVALS:

- > 3P Certified ANSI/TIA-568-B.2-1 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
- > Voice, T1, ISDN

ELECTRICAL PERFORMANCE:

Spark Test		750 V ac		
Dielectric Strength		2500 V dc / 3 seconds		
Insulation Resistance Test		Min. 150 M Ω /Km		
Conductor Resistance		Max.14.07 Ω /100m at 20 $^{\circ}$ C		
Resistance Unbalance		Max. 5%		
Capacitance Unbalance		Max. 330 pF/100m		
Mutual Capacitance		Max. 5600 pF/100m		
Impedance	64kHz	125 Ω \pm 20%		
	1~300MHz	100 Ω \pm 15%		
	300~600MHz	100 Ω \pm 25%		
Attenuation & Near End Cross Talk	Frequency (MHz)	Attenuation (dB/100 meters at 20 $^{\circ}$ C), Max.	NEXT (dB), Min.	Power Sum (dB), Min.
	1MHz	/	80*	78.0*
	4MHz	3.6*	80*	78.0*
	10MHz	5.4*	80*	78.0*
	16MHz	10.6*	80*	78.0*
	20MHz	11.8*	80*	78.0*
	31.25MHz	15.0*	79.6*	77.6*
	62.5MHz	21.5*	75.1*	73.1*
	100MHz	27.3*	72.0*	70.0*
	155MHz	34.5*	69.1*	67.1*
	200MHz	39.6*	67.5*	65.5*
	300MHz	49.4*	64.8*	62.8*
600MHz	72.5*	60.3*	58.3*	

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:

$$\text{NEXT}(f \text{ MHz}) \geq \text{NEXT}(0.772) - 15 \text{ LOG}_{10}(f \text{ MHz}/0.772) \text{ dB}$$

Rev. Date: 2009-4-9

Version: A/4



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STANDARD COMPLIANCES:

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

ANSI/TIA-568-B.2-1

ISO/IEC 2nd Edition 11801 CLASS F

CENELEC EN 50173-1

CENELEC 2nd Edition EN 50288-4-2, IEC 61156-6 for patch 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 / 26 AWG
Insulation	Material	Foam-Skin PE
	Thickness	Nominal : 0.3 mm
	Diameter	Nominal : 1.08 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	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	5.7 ± 0.3 mm
	Color	Assorted upon request
	Elongation	Min. 100%
	Tensile strength	Min. 1.407 Kg/mm ²
	Aging at 100°C for 168Hrs	Min. elongation retention:50% Min. tensile strength retention:75%
Marking	CAT.7 SSTP PATCH CABLE 3P VERIFIED to ANSI/TIA-568-B.2-1 & ISO/IEC 11801 ED.2 & IEC 61156-6 & EN 50288-4-2 & EN 50173-1 & IEC 60332-1-2 26AWGx4P TYPE CM (UL) c(UL) xx°C E164469-xx [XXXXXM]	
Flame Test	Burning five times, every time is less than 60 second and paper flag can't be burned.	

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