

Product Specification

STANDARD COMPLIANCES:

All Category 5e Requirements as Per ANSI/TIA/EIA, ISO/IEC, and CENELEC EN Standards:

ANSI/TIA/EIA 568-B.2 Cat.5e

2nd Edition ISO/IEC 11801 Class D

CENELEC EN 50173-1

IEC 61156-5, CENELEC EN 50288-3-1 Horizontal Cable

Flame Retardancy is Verified According to IEC 60332-1

We Implemented RoHS Compliance for the Requirement of European Union Issued Directive 2002/95/EC

CONSTRUCTION & CHARACTERISTICS:

Conductor	Material / Size	Bare Copper / 24 AWG
Insulation	Material	HDPE
	Thickness	Normal Avg.: 0.201 mm
	Diameter	Normal : 0.91 mm
	Colors	Blue/White-Blue Orange/White-Orange Green/White-Green Brown/White-Brown
	Elongation	Min. 300 %
	Tensile Strength	Min. 1.682 Kg/mm ²
	Sheath	Material
Thickness		Average: 0.5 mm
Diameter		5.2±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.5E UTP SLD CABLE ISO/IEC 11801 & EN 50288 & TIA/EIA-568-B.2 3P VERIFIED - 24AWGX4P TYPE CM (UL) c(UL) CMH E164469 XXXXXXM	
	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
- ETL /3P Certified ANSI/TIA/EIA-568-B.2 Category 5e testing safety/performance requirements.

APPLICATIONS:

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

ELECTRICAL PERFORMANCES:

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 at 20°C			
Resistance Unbalance	Max. 5%			
Capacitance Unbalance	Max. 330 pF/100m			
Mutual Capacitance	Max. 5600 pF/100m			
Impedance	722kHz	102Ω ± 15%		
	1~125MHz	100Ω ± 15%		
Attenuation & Near End Cross Talk	Frequency (MHz)	Attenuation (dB/100M),Max	Next (dB), Min	Power Sum (dB), Min
	772kHz	--	67.0*	64.0*
	1MHz	--	65.0*	62.0*
	4MHz	4.1*	56.0*	53.0*
	8MHz	5.8*	51.0*	48.0*
	10MHz	6.5*	50.0*	47.0*
	16MHz	8.2*	47.0*	44.0*
	20MHz	9.3*	45.0*	42.0*
	25MHz	10.4*	44.0*	41.0*
	31.25MHz	11.7*	42.0*	39.0*
	62.5MHz	17.0*	38.0*	35.0*
	100MHz	22.0*	35.0*	32.0*
125MHz	25.0*	34.0*	31.0*	

