

STANDARD COMPLIANCES

All proposed category 6 requirements as per ANSI/TIA, ISO/IEC Standards,
ANSI/TIA-568-C.2 Cat.6

2nd Edition ISO/IEC 11801 CLASS E

Flame Retardancy is verified according to NFPA 262.

Our products always comply with RoHS and REACH Directives.

CONSTRUCTION & CHARACTERISTICS

Conductor	Material / Size	Bare Copper / 23AWG
Insulation	Material	FEP
	Thickness	Nominal: 0.228 mm
	Diameter	Nominal: 1.021 mm
	Color	Blue/White-Blue Orange/White-Orange
		Green/White-Green Brown/White-Brown
	Unaged Elongation	Min. 200%
	Unaged Tensile Strength	Min. 1.754 Kgf/mm ²
Jacket	Material	Flame Retardant PVC
	Thickness	Nominal: 0.5 mm
	Diameter	Nominal: 6.0 mm
	Color	Assorted upon request
	Unaged Elongation	Min. 100%
	Unaged Tensile Strength	Min. 1.407 Kgf/mm ²
	Aging at 100°C for 168Hrs	Min. elongation retention:50%
Min. tensile strength retention:85%		

APPROVALS

- UL listed type CMP for Plenum. ETL listed type CMP for Plenum. ETL certified ANSI/TIA-568-C.2 category 6 testing performance requirements.



APPLICATIONS

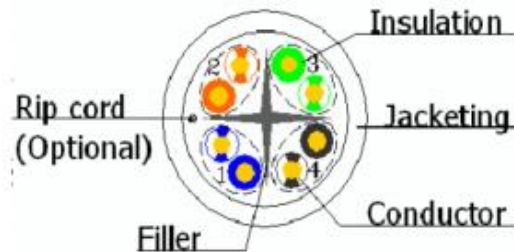
- 1000BASE-TX Gigabit Ethernet 550MHz Broadband Video
- 10BASE-T, 100BASE-TX Fast Ethernet (IEEE 802.3) Voice, T1, ISDN
- 100 VG – AnyLAN (IEEE802.12), 155/622 Mbps ATM

ELECTRICAL PERFORMANCES

Dielectric Strength of Insulation		1200 V dc or 850 V ac / 2 seconds		
Insulation Resistance Test		Min. 5000 MΩ/m		
Conductor Resistance		Max. 9.38 Ω/100m at 20°C		
Resistance Unbalance		Max. 2%		
Capacitance Unbalance		Max. 160 pF/100m		
Mutual Capacitance		Max. 5600 pF/100m		
Impedance	1~100MHz	100Ω ± 15%		
	100~250MHz	100Ω ± 22%		
Attenuation & Near End Cross Talk	Frequency	Max. Attenuation	NEXT	PSNEXT
	(MHz)	(dB/100 meters)	(dB), Min.	(dB), Min.
	1 MHz	2.0*	74.3*	72.3*
	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	15.4*	47.4*	45.4*
	100 MHz	19.8*	44.3	42.3*
	200 MHz	29.0*	39.8	37.8*
250 MHz	32.8*	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				

CONFIGURATION

orange 2	green 3
white/orange	white/green
blue 1	brown 4
white/blue	white/brown



APPLICATIONS

FTTH access network / Telecommunication Networks / CATV Networks / Data communications Networks / Local Area Networks



STREET



HOSPITAL



INDUSTRIES



OTHERS