

Category 6A UTP Patch Cable, 32AWG×4P, PVC 50102153

PRODUCT DESCRIPTION

• Cable Specifications:

CAT6A UTP 4 X 1P[32AWG(7/0.08mm±0.008mm BC)]
CM PVC JACKET OD: 2.6±0.15mm

• Standard Reference:

- All Category 6A Requirements as Per ANSI/TIA, ISO/IEC, and CENELEC EN Standards
- ANSI/TIA-5682-D Cat.6A
- ISO/IEC 3rd Edition 11801 Class Ea
- We Implemented RoHS Compliance for the Requirement of European Union Issued Directive 2011/65/EU

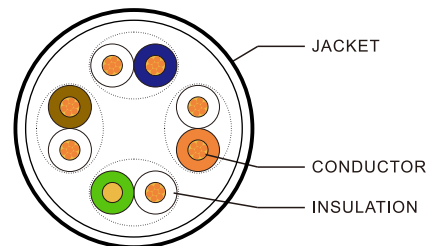
• Physical characteristic

- Rated temperature: 75°C
- Installation temperature: -20-60°C
- Operating temperature: -20-75°C
- Min bending radius:10xOD in Operation:8xOD after operation

• Application

- 1000BASE-T Gigabit Ethernet
- 10BASE-T, 100BASE-TX Fast Ethernet (IEEE 802.3)
- 100 VG - AnyLAN(IEEE802.12)
- 500MHz Broadband Video Voice, T1, ISDN

Cable Cross-Section Structure



CABLE CONSTRUCTION

Conductor		Material	Stranded Bare Copper
		Nom.O.D (mm)	7/0.08±0.008mm 32AWGx4P
Insulation HDPE	Average Thickness(mm)		0.1
	Insulation Dia.(±0.05mm)		0.45
	Unaged Elongation		Min. 300%
	Unaged Tensile Strength		Min.1.683 Kgf/mm ²
Code Color	1 Blue/Blue*White		2 Orange/Orange*White
	3 Green/Green*White		4 Brown/Brown*White
Jacket CM PVC	Average Thickness (mm)		0.55
	Outer Dia.(±0.15mm)		2.6
	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:75%
Marking	SLIM SERIES CAT6A 32AWG UTP CM PVC		

CHARACTERISTICS

Dielectric Strength of Insulation	1500 V dc / 1 minute
Insulation Resistance Test	Min. 5000 MΩ·Km
Conductor Resistance	Max. 58.3 Ω/100m at 20°C
Resistance Unbalance	Max. 2%
Capacitance Unbalance	Max. 220 pF/100m

TECHNICAL PERFORMANCE

TIA Cat 6A Channel Test			
Frequency (MHZ)	Insertion Loss	RL Min (dB)	NEXT Min (dB)
1	3.0	19.0	65.0
4	4.2	19.0	63.0
8	5.8	19.0	58.2
10	6.5	19.0	56.6
16	8.2	18.0	53.2
20	9.2	17.5	51.6
25	10.2	17.0	50.0
31.25	11.5	16.5	48.4
62.25	16.4	14.0	43.4
100	20.9	12.0	39.9
200	30.1	9.0	34.8
250	33.9	8.0	33.1
350	40.6	6.6	30.3
450	46.5	6.0	27.3
500	49.3	6.0	26.1

Frequency (MHZ)	PS NEXT Min(dB)	ELFEXT Min(dB)	PSELFEXT Min(dB)	Impedance (Ohms)
1	62.0	63.3	60.3	100±15
4	60.5	51.2	48.2	
8	55.6	45.2	42.2	
10	54.0	43.3	40.3	
16	50.6	39.2	36.2	
20	49.0	37.2	34.2	
25	47.3	35.3	32.3	
31.25	45.7	33.4	30.4	
62.25	40.6	27.3	24.3	
100	37.1	23.3	20.3	
200	31.9	17.2	14.2	
250	30.2	15.3	12.3	
350	27.3	12.4	9.4	
450	24.4	10.2	7.2	
500	23.2	9.3	6.3	