

Category 6A S/FTP Patch Cable, 23AWG×4P, PVC 50102155

PRODUCT DESCRIPTION

• Cable Specifications:

CAT6A S/FTP 4 X 1P[23AWG(1/0.57mm±0.008mm BC)]+AL/MYLAR+B(16*5/0.12AL-MG)
CM PVC JACKET OD: 7.8±0.20mm

• 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

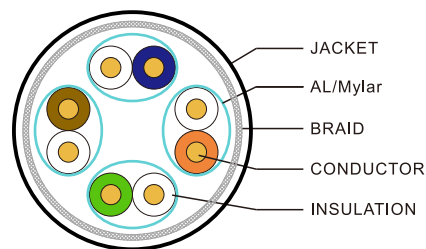
• Physical characteristic

- Rated temperature: 75°C
- Installation temperature: -20-60°C
- Operating temperature: -20-75°C
- Min bending radius:15xOD in Operation:10xOD 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	Solid Bare Copper
	Nom.O.D (mm)	1/0.57±0.008mm 23AWGx4P
Insulation FMPE	Average Thickness(mm)	0.42
	Insulation Dia.(±0.05mm)	1.42
	Unaged Elongation	N/A
	Unaged Tensile Strength	N/A
Code Color	1 Blue/White	2 Orange/White
	3 Green/White	4 Brown/White
AL/Mylar	COVERAGE 100% OVERLAP25%min	
BRAID	Material	AL-MG
	Size (±0.008mm)	16*5/0.12
Jacket CM PVC	Average Thickness (mm)	0.55
	Outer Dia.(±0.20mm)	7.8
	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	CATEGORY 6A S/FTP INSTALLATION CABLE 23AWG 4PAIRS PUR VERIFIED TO ANSI/TIA-568.2-D	

CHARACTERISTICS

Dielectric Strength of Insulation	1500 V dc / 1 minute
Insulation Resistance Test	Min. 500 MΩ·Km
Conductor Resistance	Max. 8.92 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	