

Category 8 U/FTP Patch Cable, 30AWG×4P, PVC 50102172

PRODUCT DESCRIPTION

• Cable Specifications:

CAT8 U/FTP 4 X 1P[30AWG(7/0.10mm±0.008mm BC)]+AL/MYLAR+D(7/0.127TC)
CM PVC JACKET OD: 4.5±0.15mm

• Standard Reference:

- All Category 8 Requirements as Per ANSI/TIA, ISO/IEC, and CENELEC EN Standards
- ANSI/TIA-5682-D Cat.8
- ISO/IEC 3rd Edition 11801 Class L
- We Implemented RoHS Compliance for the Requirement of European Union Issued Directive 2011/65/EU

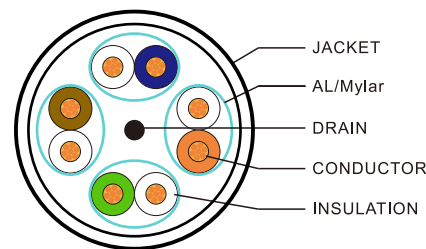
• Physical characteristic

- 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)
- 2000MHz Broadband Video Voice, T1, ISDN

Cable Cross-Section Structure



TECHNICAL PERFORMANCE

TIA Cat 8 Channel Test

Frequency (MHZ)	Insertion Loss	RL Min (dB)	NEXT Min (dB)
1	3.0	19.0	65.0
4	3.0	19.0	63.8
8	3.0	19.0	58.9
10	3.0	19.0	57.3
16	3.0	18.0	53.9
20	3.0	17.5	52.3
25	3.2	17.0	50.7
31.25	3.6	16.5	49.1
62.25	5.1	16.0	44.0
100	6.5	16.0	40.5
200	9.3	14.3	35.3
250	10.4	13.4	33.6
300	11.5	12.7	32.3
400	13.3	11.6	30.1
500	15.0	10.7	27.9
600	16.5	10.0	25.7
1000	22.0	8.0	19.3
1500	27.7	8.0	13.9
2000	32.7	8.0	9.8

Frequency (MHZ)	PS NEXT Min(dB)	ELFEXT Min(dB)	PSELFEXT Min(dB)	Impedance (Ohms)
1	62.0	65.0	62.0	100±15
4	60.5	59.9	56.9	
8	55.6	53.9	50.9	
10	54.0	52.0	49.0	
16	50.6	47.9	44.9	
20	49.0	45.9	42.9	
25	47.3	44.0	41.0	
31.25	45.7	42.1	39.1	
62.25	40.6	36.0	33.0	
100	37.1	32.0	29.0	
200	31.9	25.9	22.9	
250	30.2	24.0	21.0	
300	28.8	22.4	19.4	
400	26.6	19.9	16.9	
500	24.8	18.0	15.0	
600	22.7	16.4	13.4	
1000	16.5	12.0	9.0	
1500	11.2	8.4	5.4	
2000	7.3	5.9	2.9	

CABLE CONSTRUCTION

Conductor	Material	Stranded Bare Copper
	Nom.O.D (mm)	7/0.10±0.008mm 30AWGx4P
Insulation HDPE	Average Thickness(mm)	0.3
	Insulation Dia.(±0.05mm)	0.8
	Unaged Elongation	N/A
	Unaged Tensile Strength	N/A
Code Color	1 Blue/Blue*White	2 Orange/Orange*White
	3 Green/Green*White	4 Brown/Brown*White
AL/Mylar	COVERAGE 100%	OVERLAP25%min
DRAIN	Material	TC
	Size (±0.008mm)	7/0.127
Jacket CM PVC	Average Thickness (mm)	0.65
	Outer Dia.(±0.15mm)	4.5
	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	25/40GBase-T CAT 8-2000MHz U/FTP 30AWG PATCH CABLE CM PVC	

CHARACTERISTICS

Dielectric Strength of Insulation	1500 V dc / 1 minute
Insulation Resistance Test	Min. 500 MΩ·Km
Conductor Resistance	Max. 45.23Ω/100m at 20°C
Resistance Unbalance	Max. 2%
Capacitance Unbalance	Max. 220 pF/100m

