

Category 6 U/FTP Patch Flat Cable, 30AWG×4P, PVC 50102145

PRODUCT DESCRIPTION

• Cable Specifications:

CAT6 U/FTP 4 X 1P[30AWG(7/0.10mm±0.008mm BC)]+D(1/0.254TC)+AL/MYLAR
CM PVC JACKET OD: 2.8*8.5±0.20mm

• Standard Reference:

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

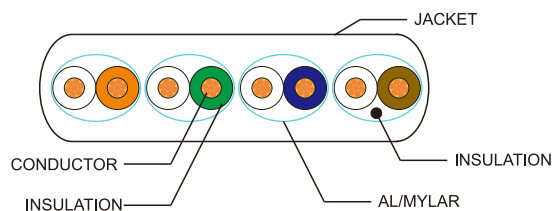
• Physical characteristic

- 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)
- 250MHz Broadband Video Voice, T1, ISDN

Cable Cross-Section Structure



CABLE CONSTRUCTION

Conductor	Material	Stranded Bare Copper
	Nom.O.D (mm)	7/0.10±0.008mm 30AWGx4P
Insulation HDPE	Average Thickness(mm)	0.30
	Insulation Dia.(±0.05mm)	0.90
	Unaged Elongation	Min. 300%
	Unaged Tensile Strength	Min.1.683 Kg/mm ²
Code Color	1 Blue/Blue*White	2 Orange/Orange*White
	3 Green/Green*White	4 Brown/Brown*White
DRAIN	Material	TC
	Size (±0.008mm)	1/0.254
AL/Mylar	COVERAGE 100% OVERLAP25%min	
Jacket CM PVC	Average Thickness (mm)	0.51
	Outer Dia.(±0.20mm)	2.8*8.5
	Unaged Elongation	Min. 100%
	Unaged 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.6 U/FTP 30WAG FLAT CABLE	

CHARACTERISTICS

Dielectric Strength of Insulation	1500 V dc / 1 minute
Insulation Resistance Test	Min. 5000 MΩ·Km
Conductor Resistance	Max. 45.23 Ω/100m at 20°C
Resistance Unbalance	Max. 2%
Capacitance Unbalance	Max. 220 pF/100m

TECHNICAL PERFORMANCE

TIA Cat 5E Channel Test			
Frequency (MHz)	Insertion Loss	RL Min (dB)	NEXT Min (dB)
1	3.0	17.0	60.0
4	4.5	17.0	53.5
8	6.3	17.0	48.6
10	7.1	17.0	47.0
16	9.1	17.0	43.6
20	10.2	17.0	42.0
25	11.4	16.0	40.3
31.25	12.9	15.1	38.7
62.25	18.6	12.1	33.6
100	24.0	10.0	30.1

Frequency (MHz)	PSNEXT (dB/100m)	ACR-F (dB/100m)	PS ACR-F (dB/100m)	Impedance (Ohms)
1	57.0	57.4	54.4	100±15
4	50.5	45.4	42.4	
8	45.6	39.3	36.3	
10	44.0	37.4	34.4	
16	40.6	33.3	30.3	
20	39.0	31.4	28.4	
25	37.3	29.4	26.4	
31.25	35.7	27.5	24.5	
62.25	30.6	21.5	18.5	
100	37.1	17.4	14.4	