

Category 6 UTP Patch Cable, 24AWG×4P, PVC 50102142

PRODUCT DESCRIPTION

• Cable Specifications:

CAT6 UTP 4 X 1P[24AWG(7/0.175mm±0.008mm BC)]
CM PVC JACKET OD: 5.3±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

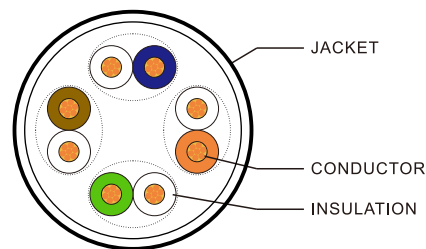
• Physical characteristic

- 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)	7/0.175±0.008mm 24AWGx4P
Insulation HDPE	Average Thickness(mm)	0.2
	Insulation Dia.(±0.05mm)	0.75
	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)	0.6
	Outer Dia.(±0.20mm)	5.3
	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	YFC CAT.6 UTP ISO/IEC 11801 & EN 50288 & ANSI/TIA-568.2-D ETL/3P VERIFIED ▲ 24AWGX4P PATCH TYPE CM(UL) E164469-B3	

CHARACTERISTICS	
Dielectric Strength of Insulation	1500 V dc / 1 minute
Insulation Resistance Test	Min. 5000 MΩ·Km
Conductor Resistance	Max. 11.25 Ω/100m at 20°C
Resistance Unbalance	Max. 2%
Capacitance Unbalance	Max. 220 pF/100m

TECHNICAL PERFORMANCE			
TIA Cat 6 Channel Test			
Frequency (MHz)	Insertion Loss	RL Min (dB)	NEXT Min (dB)
1	3.0	19.0	65.0
4	4.0	19.0	63.0
8	5.7	19.0	58.2
10	6.3	19.0	56.6
16	8.0	18.0	53.2
20	9.0	17.5	51.6
25	10.1	10.1	50.0
31.25	11.4	16.5	48.4
62.25	16.5	14.0	43.4
100	21.3	12.0	39.9
200	31.5	9.0	34.8
250	35.9	8.0	33.1

Frequency (MHz)	PSNEXT (dB/100m)	ACR-F (dB/100m)	PS ACR-F (dB/100m)	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	36.3	
20	59.0	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	