Twisted Pair Cable

TECHNICAL DATA SHEET

UTP Cat5e 4P 24AWG 50m PVC

Application

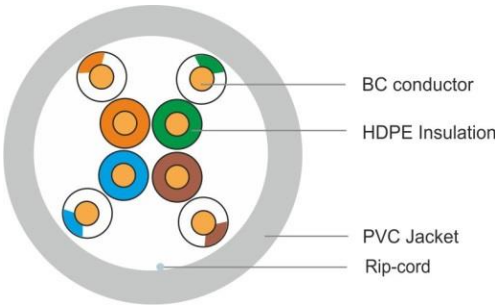
- Ethernet IEEE 802.3: 1000 BASE-T, 100 BASE-TX, 10 BASE-T, PoE, PoE+
- CDDI, Token Ring, ATM
- Broadband and Baseband Analog Video, Voice
- Noisy (EMI) Environments

Standards

- ISO/IEC 11801
- IEC 61156
- EN 50173-1
- TIA/EIA-568C
- IEC 60332-1

Cable construction

Conductor	Material	Solid Bare Coper
	Diameter (mm)	0.505±0.005
Insulation	Material	HDPE
	Diameter (mm)	0.90±0.05
Color	A. Blue, White-Blue	B. Orange, White-Orange
	C. Green, White-Green	D. Brown, White-Brown
Rip-cord	Yes	
Shielded	No	
Sheath	Material	PVC
	Thickness (mm)	0.5
	External Diameter (mm)	5.2±0.3
	Color	White (W), Grey (G)



Transmission performance

F MHz	RL ≥dB	ATT ≤dB/100m	NEXT ≥dB	DELAY ≤ns	PS NEXT ≥dB	ELFEXT ≥dB	PS ELFEXT ≥dB
1.0	20.0	2.0	65.3	570	62.3	63.8	60.8
4.0	23.0	4.1	56.3	552	53.3	51.8	48.8
8.0	24.5	5.8	51.8	547	48.8	45.7	42.7
10.0	25.0	6.5	50.3	545	47.3	43.8	40.8
16.0	25.0	8.2	47.2	543	44.2	39.7	36.7
20.0	25.0	9.3	45.8	542	42.8	37.8	34.8
25.0	24.3	10.4	44.3	541	41.3	35.8	32.8
31.25	23.6	11.7	42.9	540	39.9	33.9	30.9
62.5	21.5	17.0	38.4	539	35.4	27.9	24.9
100.0	20.1	22.0	35.3	538	32.3	23.8	20.8

Delay Skew (ns/100 m)	≤ 45	1.0-100.0 MHz
Characteristic Impedance (Ω)	100±15	1.0-100.0 MHz
DC Conductor Resistance (Ω/100 m)	≤9.38	20°C
DC Resistance Unbalance (%)	≤ 2.5	
Mutual capacitance (nF/100m)	≤ 5.6	
Dielectric strength (kV, during 1 min)	1	DC. 1 min

Mechanical and environmental characteristics

Max Cable Tensile Strength	85 N
Min Cable Bending Radius	8 OD
Operational Temperature	-20°C ~ +60°C

Packaging

Packing	Carton, pull box
Packing dimension	22.5×22×9 cm
Packing length	50 m

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