

CAT 6 PVC UTP / FTP NETWORK CABLE



APPLICATION

A twisted 4 pair high performance cable for data transmission in LAN Networks. Category 6 is recommended for all new installations, supports a frequency range of up to 250MHz and is designed for transmission speeds of up to 1 gigabit per second Ethernet.

CABLE STANDARDS

TIA/EIA-568
ISO/IEC 11801
TIA/EIA 568-C.2
YD/T1019

Pin Assignments T568A
 T568B

CONSTRUCTION

Conductor: 23AWG Class 1 solid copper conductor

Insulation: Super Polyethylene (SPE)

Sheath: Polyvinyl Chloride (PVC)

CHARACTERISTICS

Temperature Limits: Fixed: -20°C to +50°C

Minimum Bending Radius: As per cable manufacturer datasheet

CORE IDENTIFICATION

Pair 1:	Blue	Blue/White
Pair 2:	Orange	Orange/White
Pair 3:	Green	Green/White
Pair 4:	Brown	Brown /White

Sheath: **Grey**

CAT 6 PVC UTP / FTP NETWORK CABLE- DIMENSIONS

BELDEN CODE	NUMBER OF CONDUCTORS	NUMBER OF PAIRS	AWG STRANDING	WEIGHT (KG/305MM BOX)	OVERALL DIAMETER (MM)
4UTPCAT6	8	4	AWG 23	16	6.1

CAT 6 PVC UTP / FTP NETWORK CABLE- SIGNAL PERFORMANCE

FREQUENCY MHz	ATTENUATION dB/100M	NEXT dB	PS-NEXT dB	RL dB	ELFEXT dB	PS-ELFEXT dB/100m	PHASE DELAY ns
1	2.03	74.3	72.3	20	67.8	64.8	570
4	3.78	65.3	63.3	23	55.8	52.8	552
8	5.32	60.8	58.8	24.5	49.7	46.7	546.73
10	5.95	59.3	57.3	25	47.8	44.8	545.38
16	7.55	56.2	54.2	25	43.7	40.7	543
20	8.47	54.8	52.8	25	41.8	38.8	542.05
25	9.51	53.3	41.3	24.3	39.8	36.8	541.2
31.25	10.67	51.9	49.9	23.6	37.9	34.9	540.44
62.5	15.38	47.7	45.4	21.5	31.9	28.9	538.55
100	19.8	44.3	42.3	20.1	27.8	24.8	537.6
200	28.98	39.8	37.8	18	21.8	18.8	536.54
250	32.85	38.3	36.3	17.3	19.8	16.8	536.27

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