

PRODUCT DATA SHEET

U/UTP Unshielded Cat6 250Mhz 24AWG Solid 4PR

Data Transmission and communication cable



Description

- CAT6 250 MHz 24 AWG (0.53mm) SOLID 4PR UTP,
- ETL TIA/EIA 568.2-D, 1000 FT BOX

Application

- LAN/NETWORK Cable
- Power over Ethernet (PoE) – IEEE 802.3af
PoE+ – IEEE 802.3at Type 1 and 2
- ATM and token ring

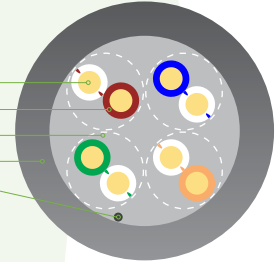
Features

- Meets or exceeds requirements of ANSI/TIA-568.2-D Category 6e and ISO 11801 2nd Edition Class E channel standards.
- Meets requirements of IEEE 802.3af and IEEE 802.3at for PoE applications.
- Descending length cable markings enable easy identification of remaining cable which reduces installation time and cable scrap.
- Color Availability: Additional cable colors available.

Electrical Characteristics

- Impedance: 1-100±15(Ohms).
- Rated Temperature: 75°C.
- DC Resistance Unbalance(%): Max 2.5.
- DC Resistance 20°C: 8.4Ohms/100m).
- Pair-to-Ground Capacitance Unbalance: 330(pF/100M).
- Insulation Resistance: >5000MΩ*Km.
- Dielectric strength: DC 2500V 2S.
- Nominal Velocity of Propagation: 69%

Copper Conductor
HDPE Insulation
Pair
Jacket
Rip Cord



Conductor

Conductor	Solid Bare Copper 24AWG
Insulation	HDPE
Total number of insulated conductors	8, twisted in 4 pairs
Color code	White-Blue/Blue, White-Orange/Orange White-Green/Green, White-Brown/Brown
Individual pair shield	None
Overall shield	None
Drain wire	None

Order information (Part Number)

NTNC6 - YY

Jacket Color



Item	Outer Jacket	Overall Diameter (mm)
P	CMP	5.8 +- 0.2
C	CM	5.8 +- 0.2
R	CMR	5.8 +- 0.2
L	LSZH	5.8 +- 0.2
E	LDPE	5.8 +- 0.2



ITEM Frequency	Attenuation Max (dB/100m)		NEXT Min (dB)		PS NEXT Min (dB)		ACR Min (dB)	
	Standard	NT	Standard	NT	Standard	NT	Standard	NT
1	2	2	74.3	74.3	72.3	72.3	72.3	72.3
4	3.8	3.8	65.3	65.3	63.3	63.3	61.5	61.5
8	5.3	5.3	60.8	60.8	58.8	58.8	55.5	55.5
10	6	6	59.3	59.3	57.3	57.3	53.3	53.3
16	7.6	7.6	56.2	56.2	54.2	54.2	48.6	48.6
20	8.5	8.5	54.8	54.8	52.8	52.8	46.3	46.3
25	9.5	9.5	53.3	53.3	51.3	51.3	43.8	43.8
31.25	10.7	10.7	51.9	51.9	49.9	49.9	41.2	41.2
62.5	15.4	15.4	47.4	47.4	45.4	45.4	32	32
100	19.8	19.8	44.3	44.3	42.3	42.3	24.5	24.5
200	29	29	39.8	39.8	37.8	37.8	10.8	10.8
250	32.8	32.8	38.3	38.3	36.3	36.3	5.5	5.5

ITEM Frequency	RL Min (dB)		ELFEXT Min (dB)		PS ELFEXT Min (dB)		PSACR Min (dB)	
	Standard	NT	Standard	NT	Standard	NT	Standard	NT
1	20	20	67.8	67.8	64.8	64.8	70.3	70.3
4	23	23	55.8	55.8	52.8	52.8	59.5	59.5
8	24.5	24.5	49.7	49.7	46.7	46.7	53.5	53.5
10	25	25	47.8	47.8	44.8	44.8	51.3	51.3
16	25	25	43.7	43.7	40.7	40.7	46.6	46.6
20	25	25	41.8	41.8	38.8	38.8	44.3	44.3
25	24.3	24.3	39.8	39.8	36.8	36.8	41.8	41.8
31.25	23.6	23.6	37.9	37.9	34.9	34.9	39.2	39.2
62.5	21.5	21.5	31.9	31.9	28.9	28.9	30	30
100	20.1	20.1	27.8	27.8	24.8	24.8	22.5	22.5
200	18	18	21.8	21.8	18.8	18.8	8.8	8.8
250	17.3	17.3	19.8	19.8	16.8	16.8	3.5	3.5

