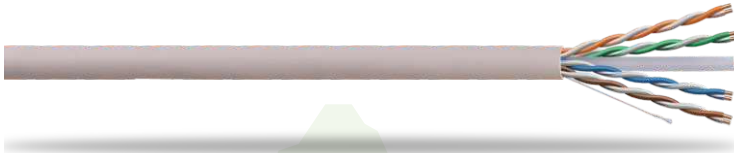


PRODUCT DATA SHEET

UTP Unshielded Cat6 Enhanced 550 Mhz 23 AWG Solid 4PR



Description

- CAT6E 550 MHz 23AWG SOLID 4PR UTP,
- TIA/EIA 568.2-D, 1000 FT BOX

Application

- LAN/NETWORK Cable
- 10BASE-T through 10GBASE-T Ethernet*
- 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 6 and ISO 11801 2nd Edition Class E channel standards.
- Meets or exceeds requirements of ANSI/TIA-568.2-D and IEC 61156-5 Category 6 component standards.
- Meets requirements of IEEE 802.3af and IEEE 802.3 at for PoE applications.
- Third party tested to comply with ANSI/TIA/EIA-568.2-D
- UL Listed E477770
- Descending length cable markings enable easy identification of remaining cable which reduces installation time and cable scrap.
- Color Availability: Additional cable colors available.

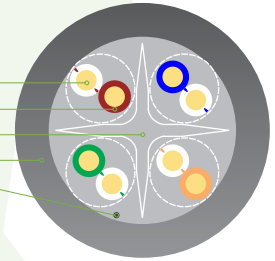
Electrical Characteristics

- Impedance: 1-250MHz 100±15(Ohms).
- Rated Temperature: 75°C.
- DC Resistance Unbalance(%): Max 2.5.
- DC Resistance 20°C: 8.4(Ohms/100m).
- Pair-to-Ground Capacitance Unbalance: 330(pF/100M).
- Insulation Resistance: >5000MΩ*Km.
- Dielectric strength: DC 2500V 2S.
- Nominal Velocity of Propagation: 67%
- Propagation Delay: Max 536ns/100m

Low density polyethylene (LDPE) is recommended for OSP applications. in those cases jacket color is always black for UV resistance and an additional PET layer is extruded over the cable core for a better water-proof performance.

* for 10GBASE-T, an unshielded Cat 6 cable should not exceed 55 meters.

- Conductor
- HDPE Insulation
- Cross Filler
- Jacket
- Rip Cord



Conductor

Conductor	Solid Bare Copper 23AWG
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)

NTNC6E



Jacket Color

BU	RD
GY	BK
WH	YL
GN	PR

Item	Outer Jacket	Overall diameter(mm)
P	CMP	6.4±0.2
C	CM	6.4±0.2
R	CMR	6.4±0.2
L	LSZH	6.4±0.2
E	LDPE	6.4±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	1.9	74.3	80.3	72.3	76.6	72.3	78.4
4	3.8	3.7	65.3	75.6	63.3	74.2	61.5	71.9
8	5.3	5.1	60.8	66	58.8	65.1	55.5	60.9
10	6	5.8	59.3	67.6	57.3	65.9	53.3	61.8
16	7.6	7.4	56.2	70.8	54.2	67.2	48.6	63.4
20	8.5	8.2	54.8	71.9	52.8	69.1	46.3	63.7
25	9.5	9.1	53.3	62.3	51.3	60.8	43.8	53.2
31.25	10.7	9.9	51.9	68.7	49.9	67.1	41.2	58.8
62.5	15.4	15	47.4	59.6	45.4	58.3	32	44.6
100	19.8	18.8	44.3	60	42.3	58	24.5	41.2
200	29	27.4	39.8	57.5	37.8	56	10.8	30.1
250	32.8	29.4	38.3	55.8	36.3	54.1	5.5	26.4
300	36.4	33.3	37.1	54.2	35.1	53.4	0.7	20.9
400	43	38.6	35.3	53.8	33.3	52.1	---	---
500	48.9	43.9	33.8	51	31.8	49.3	---	---

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	23.6	67.8	75.6	64.8	73.3	70.3	74.7
4	23	23.9	55.8	61.3	52.8	60.1	59.5	70.5
8	24.5	30	49.7	55.7	46.7	54.8	53.5	60
10	25	28.5	47.8	55.2	44.8	53.2	51.3	60.1
16	25	28.2	43.7	49.7	40.7	48.1	46.6	59.8
20	25	27.8	41.8	48.1	38.8	46.2	44.3	60.9
25	24.3	27.5	39.8	45.9	36.8	45	41.8	51.7
31.25	23.6	24.9	37.9	42.7	34.9	41.7	39.2	57.2
62.5	21.5	24.1	31.9	39.4	28.9	37.4	30	43.3
100	20.1	23.5	27.8	35	24.8	33.2	22.5	39.2
200	18	23.2	21.8	32.8	18.8	30.2	8.8	28.6
250	17.3	21.5	19.8	30.7	16.8	27.7	3.5	24.7
300	16.8	20.8	18.3	26.5	15.3	25.4	---	---
400	15.9	18.9	15.8	23.4	12.8	22.1	---	---
500	15.2	18.6	13.8	19.5	10.8	18.7	---	---

