

PRODUCT DATA SHEET

UTP Unshielded Cat5 Enhanced 350 Mhz 24 AWG Solid 4PR

Data Transmission and communication cable



Description

- CAT5E 350 MHz 24 AWG SOLID 4PR UTP,
- TIA/EIA 568.2-D, 1000 FT BOX

Application

- LAN/NETWORK Cable
- 10BASE-T through 5GBASE-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 5e and ISO 11801 2nd Edition Class D channel standards.
- Meets or exceeds requirements of ANSI/TIA-568.2-D and IEC 61156-5 Category 5e component standards.
- Third party tested to Category 5e channel compliance.
- UL Listed E477770
- 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.

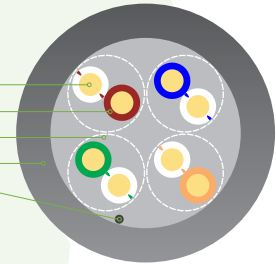
Electrical Characteristics

- Impedance: 1-100MHz 100±15(Ohms).
- Rated Temperature: 75°C.
- DC Resistance Unbalance(%): Max 2.5.
- DC Resistance 20°C: 9.5(Ohms/100m).
- Pair-to-Ground Capacitance Unbalance: 330(pF/100M).
- Insulation Resistance: >5000MΩ*Km.
- Dielectric strength: DC 2500V 2S.
- Nominal Velocity of Propagation: 69%
- Propagation Delay: 350MHZ 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.

* 5 Gbit/s up to 100m of cat5e on defined use cases and deployment configurations

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)

NTNC5E - -

Jacket Color



Item	Outer Jacket	Overall diameter(mm)
P	CMP	5.1±0.2
C	CM	5.1±0.2
R	CMR	5.1±0.2
L	LSZH	5.1±0.2
E	LDPE	5.1±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	2.0	2.0	65.3	76.2	62.3	72.3	63.3	74.2
4	4.1	4.0	56.3	65.7	53.3	62.5	52.2	62.0
8	5.8	5.7	51.8	61.5	48.8	58.5	46.0	56.3
10	6.5	6.4	50.3	56.3	47.3	55.1	43.8	50.4
16	8.2	8.0	47.2	51.9	44.2	48.2	39.0	44.5
20	9.3	9.1	45.8	58.7	42.8	56.5	36.5	50.5
25	10.4	10.2	44.3	55.2	41.3	51.6	33.9	46.0
31.25	11.7	11.5	42.9	54.4	39.9	50.4	31.2	44.1
62.5	17.0	16.4	38.4	47.1	35.4	45.2	21.4	32.5
100	22.0	21.1	35.3	47.3	32.3	44.3	13.3	28.7
155	28.1	26.8	32.4	45.9	29.4	40.4	4.3	23.0
200	32.4	30.0	30.8	40.7	27.8	36.8	---	---
300	41.0	37.2	28.1	38.5	25.1	40.1	---	---
350	44.9	40.1	27.1	36.7	24.1	31.6	---	---

ITEM Frequency	RL Min (dB)		ELFEXT Min (dB)		PS ELFEXT Min (dB)		PSACR Min (dB)	
	Standard	NT	Standard	NT	Standard	NT	Standard	NT
1	20.0	23.4	63.8	75.4	60.8	73.3	60.3	70.3
4	23.0	29.6	51.8	57.3	48.8	56.5	49.2	58.8
8	24.5	25.0	45.7	49.4	42.7	48.0	43.0	53.3
10	25.0	26.5	43.8	46.6	40.8	45.1	40.8	49.2
16	25.0	26.2	39.7	50.2	36.7	47.2	36.0	40.8
20	25.0	27.0	37.8	45.1	34.8	41.9	33.5	48.3
25	24.3	25.9	35.8	40.0	32.8	38.7	30.9	42.4
31.25	23.6	24.3	33.9	42.5	30.9	41.7	28.2	40.1
62.5	21.5	22.0	27.8	39.1	24.8	34.7	18.4	30.6
100	20.1	23.6	23.8	30.9	20.8	28.2	10.3	25.7
155	18.8	27.0	20.0	31.4	17.0	22.6	1.3	17.5
200	18.0	25.4	17.7	26.0	14.7	22.9	---	---
300	16.8	24.2	14.2	27.7	11.2	17.5	---	---
350	16.3	26.9	12.9	22.3	9.9	17.3	---	---

