

PRODUCT DATA SHEET

U/UTP unshielded EngineerPro® CAT6A Twisted Pair

Application

- Meets or exceeds requirements of ANSI/TIA-568.2-D Category 6A and ISO 11801 2nd Edition Class EA channel standards.
- Meets or exceeds requirements of IEC 61156-5 Category 6A component standards.
- Meets requirements of IEEE 802.3af and IEEE 802.3at for PoE+ or PoE++ applications.
- Third party tested to comply with ANSI/TIA/EIA-568.2-D
- Descending length cable markings enable easy identification of remaining cable which reduces installation time and cable scrap.
- Color Availability: Additional cable colors available.
- UL Verified.

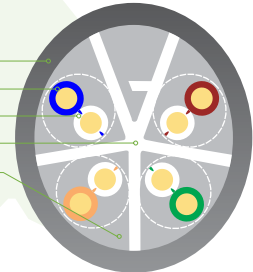
Electrical Characteristics

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.
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Jacket
Copper Conductor
HDPE Insulation
Cross Filler
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)

NTNC6A -



Jacket Color	
BU	RD
GY	BK
WH	YL
GN	PR

Item	Outer Jacket	Overall diameter(mm)
P	CMP	7.5±0.2
C	CM	7.5±0.2
R	CMR	7.5±0.2
L	LSZH	7.5±0.2
E	LDPE	7.5±0.2

Nominal Transmission Characteristics

Frequency (MHz)	RL (min) (dB)	IL(max) (dB/100m)	DOP(max) (ns/100m)	Delay Skew (max) (ns/100m)	NEXT (min) (dB)	PSNEXT (min) (dB)	ACR-F (min) (dB/100m)	PSACR-F (min) (dB/100m)	PS ANEXT (min) (dB)	PS AACR-F (min) (dB/100m)
1	20.0	2.1	570	45	74.3	72.3	67.8	64.8	67.0	67.0
4	23.0	3.8	552	45	65.3	63.3	55.8	52.8	67.0	66.2
10	25.0	6.0	545.4	45	59.3	57.3	47.8	44.8	67.0	60.1
16	25.0	7.6	543	45	56.2	54.2	43.7	40.7	67.0	52.2
20	25.0	8.5	542.1	45	54.8	52.8	41.8	38.8	67.0	48.3
31.25	25.0	10.7	540.4	45	51.9	49.9	37.9	34.9	67.0	42.3
62.5	21.5	15.4	538.6	45	47.4	45.4	31.9	28.9	65.6	38.2
100	20.1	19.8	537.6	45	44.3	42.3	27.8	24.8	62.5	32.2
200	18.0	29.0	536.1	45	39.8	37.8	21.8	18.8	58.0	30.2
300	17.3	36.4	536.1	45	37.1	35.1	18.3	15.3	55.3	28.7
400	17.3	43.0	535.8	45	35.3	33.3	15.8	12.8	53.5	26.2
500	17.3	45.3	535.6	45	33.8	31.8	13.8	10.8	52.0	24.2

Note: The above transmission performance for the 100M, 20 ± 2°C under the conditions tested.

