

PRODUCT DATA SHEET

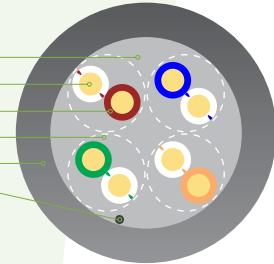
U/UTP Direct Burial CAT6A Twisted Pair 500 MHz Cable
Data Transmission and communication cable



Application

- For direct burial applications.
- 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 ANSI/TIA-568.2-D and IEC 61156-5 Category 6A component standards.
- Third party tested to Category 6A channel compliance.
- 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.
- UL Verified.

- Water Blocking Compound
- Copper Conductor
- HDPE Insulation
- Pair
- 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

Electrical Characteristics

- Impedance: 1-500MHz 100±15(Ohms).
- Rated Temperature: 75°C.
- DC Resistance Unbalance(%): Max 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 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)	PSANEXT (min) (dB)	PSAACR-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.

