

PRODUCT DATA SHEET

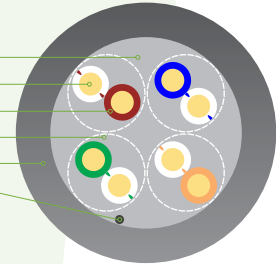
U/UTP Direct Burial CAT5e Twisted Pair 350 MHz Cable
Data Transmission and communication cable



Application

- For direct burial applications.
- 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.
- 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 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

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 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)
1	20.0	2.2	570	45	65	62	61	61
4	23.0	4.2	552	45	56	53	48	48
10	25.0	6.5	545	45	50	47	41	41
16	25.0	8.4	543	45	47	44	36	36
20	25.0	9.3	542	45	45	42	34	34
31.25	23.6	11.6	540	45	42	39	31	31
62.5	21.5	17.0	538	45	38	35	25	25
100	20.1	22.0	537	45	35	32	21	21

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



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	---	---

