

**CATEGORY 5E PLENUM CABLE, 4 PAIR, UTP, UL CMP**

**Product Description**

- CAT5E PLENUM UTP- 350 MHz 24AWG SOLID BC 4PR UTP, ANSI/TIA 568.2-D, ISO/IEC 11801 CLASS D, IEEE 802.3bt, UL CMP - 1000 FT BOX

Part Number:	Jacket Color:
CAT5E-P-BK	Black
CAT5E-P-BL	Blue
CAT5E-P-GN	Green
CAT5E-P-GY	Gray
CAT5E-P-WT	White
CAT5E-P-YL	Yellow

**Product Features**

- High performance of transmission.
- High quality of safety property.
- Sweep frequency up to 350 MHz.
- Tangle-Free Reelex II Box.
- Carton with one layer corrugated design providing sufficient strength and saving packaging space.

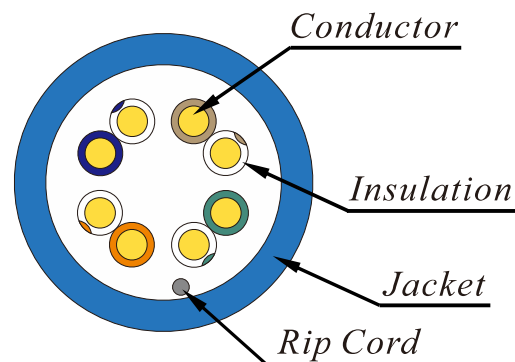
**Application**

- Structure cabling for horizontal and building backbone cable.
- Transmission of digital and analogue for data, video and audio applications.
- IEEE 802.3u 100BASE-T and legacy speeds.
- CDDI / ATM / Token Ring
- IEEE 802.3af (PoE) / IEEE 802.3at (PoE+) / IEEE 802.3bt (PoE++) Type 1,2,3

**Applicable Standard**

- Electrical Transmission
  - ANSI/TIA 568.2-D (2018)
  - ISO/IEC 11801-1
  - IEC 61156-5 (Edition 2.1)
- Flame Test
  - NFPA 262 (CMP)
- Material and Construction
  - UL 444
  - CSA 22.2 NO.214
- EU Directive 2011/65/EU & 2015/863/EU
- EU Directive 2006/95/EC (LVD)
- UL CMP CL2P/CL3P  
c(UL) FT6

**Sectional Drawing**



## **Material and Construction**

Conductor	Material	24AWG solid bare copper	
Insulation	Material	Fluorinated Ethylene Propylene (FEP)	
	Color code & diameter	Blue & white/blue Stripe	0.84 ± 0.02 mm
		Orange & white/orange stripe	0.82 ± 0.02 mm
		Green & white/green stripe	0.83 ± 0.02 mm
Brown & white/brown stripe		0.82 ± 0.02 mm	
Twisted	Description	Left hand direction	
Assembly	Description	Left hand direction	
Rip cord	Material	Polyester multi-yarn	
Jacket	Material	Low smoke flame retardant polyvinyl chloride (LSFRPVC)	
	Diameter	4.4 ± 0.2 mm	
	Thickness	0.35 ± 0.03 mm	
	Color	Per customer`s request	
Marking	STRUCTURED CABLE PRODUCTS --- CAT5E-P --- E198134-W CAT5E PLENUM 350 MHz 4PR 24AWG SOLID BC UTP C(UL)US CMP 75 °C --- VERIFIED TO ANSI/TIA-568.2-D ISO/IEC 11801-1 CLASS D RoHS ZONE/JACK A B C D E 0 1 2 3 4 5 6 7 8 9XXXXFT AB YYYYMMDD  Note 1: YYYYMMDD is date code.		

## **Usage & Environmental Condition**

Temperature range	Storage & shipping	-20°C to 75°C
	Installation	0°C to 60°C
	Operation	-20°C to 60°C
Minimum bending radius	≥ 4 times of overall diameter	
Maximum pulling tension	≤ 110 N	

## **Physical & Electrical Characteristics (at 20°C)**

Temperature rating	75°C
Spark test	2.5 KV DC
AC leakage current through overall jacket	≤ 10mA (1.5KV AC)
Cable cold bend	-20°C for 4 hr
Conductor DC resistance	≤ 9.38 Ω /100m
Resistance unbalance	≤ 5%
Dielectric strength	1.5 KV ac for 2 s
Insulation resistance	≥ 5000 MΩ• km
Mutual capacitance	≤ 5.6 nF/100m
Capacitance unbalance pair-to-ground	≤ 330 pF/100m

### **Transmission Performance (at 20°C)**

Frequency	IL	NEXT	PS.NEXT	ACR	PS.ACR	ACRF	PS.ACRF	RL	Propagation Delay	Delay Skew
(MHz)	Max. dB/100m	Min. dB/100m	Min. dB/100m	Min. dB/100m	Min. dB/100m	Min. dB/100m	Min. dB/100m	Min. dB/100m	Max. ns/100m	Max. ns/100m
1	2.04	65.30	62.30	63.26	60.26	63.80	60.80	20.00	570.00	45.00
4	4.05	56.27	53.27	52.22	49.22	51.76	48.76	23.01	552.00	
8	5.77	51.75	48.75	45.99	42.99	45.74	42.74	24.52	546.73	
10	6.47	50.30	47.30	43.83	40.83	43.80	40.80	25.00	545.38	
16	8.25	47.24	44.24	38.99	35.99	39.72	36.72	25.00	543.00	
20	9.27	45.78	42.78	36.52	33.52	37.78	34.78	25.00	542.05	
25	10.42	44.33	41.33	33.91	30.91	35.84	32.84	24.32	541.20	
31.25	11.72	42.88	39.88	31.15	28.15	33.90	30.90	23.64	540.44	
62.5	16.99	38.36	35.36	21.37	18.37	27.88	24.88	21.54	538.55	
100	21.98	35.30	32.30	13.33	10.33	23.80	20.80	20.11	537.60	
150	27.54	32.66	29.66	5.11	2.11	20.28	17.28	18.87	536.94	
200	32.42	30.78	27.78	N.A.	N.A.	17.78	14.78	18.00	536.55	
250	36.85	29.33	26.33	N.A.	N.A.	15.84	12.84	17.32	536.28	
300	40.97	28.14	25.14	N.A.	N.A.	14.26	11.26	16.77	536.08	
350	44.85	27.14	24.14	N.A.	N.A.	12.92	9.92	16.30	535.92	

Values above 100MHz are for information only.

### **Shipping Information**

Item	Dimension	Nominal net weight
Cable	305 m	8.67 kg (19.11 lb)
Reelex II Carton	L346 x W240 x H330 mm	700 g
Pallet	1150 x1150 x120 mm	14.1 kg

Container type	Capacity of pallet	Pallet of carton	Capacity of carton
20 feet	20	26/39	650
40 feet	40	26/39	1300

### **Schematic Drawing of Carton**

One layer corrugated Reelex☒ carton.

