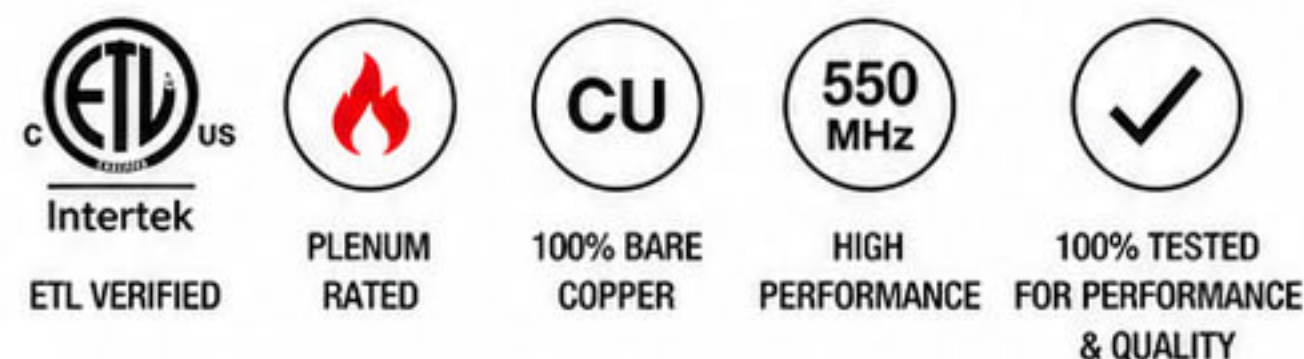


Cable Spectrum CAT6 Plenum Bare Copper Cable

SKU: **CSCAT6PC**

Cable Spectrum CAT6 Plenum cables are designed for superior performance in plenum spaces such as air ducts and suspended ceilings. Manufactured using high-quality bare copper conductors and tested up to 550 MHz, our cables ensure reliable, high-speed network connections for commercial and industrial applications.



CONSTRUCTION

Conductor	23 AWG Solid Bare Copper
Insulation	HDPE (High Density Polyethylene)
Insulation Colors	White/Blue-Blue, White/Orange-Orange, White/Green-Green, White/Brown-Brown
Separator	Cross Filler
Jacket	Low Smoke Plenum (LSOH)
Jacket Color	Black
Rip Cord	Yes



APPLICATIONS

- 10BASE-T, 100BASE-TX (Fast Ethernet)
- 1000BASE-T (Gigabit Ethernet)
- 155 Mbps ATM, 622 Mbps ATM
- Power over Ethernet (PoE, PoE+, PoE++)
- ISDN, VoIP, Video, Audio, and other high-speed data applications
- Suitable for use in plenum air handling spaces in accordance with NEC Article 800

ELECTRICAL PROPERTIES (at 20°C)

DC Resistance (Max.)	9.38 Ω /100m
Resistance Unbalance (Max.)	5%
Pair-to-Ground Capacitance (Max.)	330 pF/100m
Mutual Capacitance (Max.)	5.6 nF/100m
Capacitance Unbalance (Max.)	330 pF/100m
Characteristic Impedance	100 $\pm$ 15 Ω
Velocity of Propagation (NVP)	68%
Delay Skew (Max.)	45 ns/100m
Operating Temperature	0°C to +75°C
Installation Temperature	0°C to +50°C
Voltage Rating	300V
Propagation Delay (Max.)	536 ns/100m

PERFORMANCE (TIA/EIA-568.2-D)

Frequency (MHz)	Insertion Loss (Max. dB/100m)	NEXT (Min. dB)	PS NEXT (Min. dB)	ACR (Min. dB)	PS ACR (Min. dB)	RL (Min. dB)
1	2.1	74.3	72.3	72.2	69.2	19.0
4	4.0	65.3	65.3	61.3	58.3	19.0
10	6.3	59.3	57.3	53.0	50.0	19.0
16	8.0	56.2	54.2	48.2	45.2	19.0
20	9.0	52.8	52.8	45.8	42.8	19.0
31.25	11.4	51.9	49.9	40.5	37.5	18.0
62.5	16.5	47.4	45.4	30.9	27.9	16.0
100	21.3	44.3	42.3	23.0	20.0	14.0
200	31.0	39.8	37.8	8.8	5.8	12.0
250	35.0	38.3	36.3	3.3	0.3	11.0
200	39.1	37.1	35.1	-2.0	-5.0	10.0
550	53.8	33.1	31.1	-20.7	-23.7	9.0

COMPLIANCE & STANDARDS

- ETL Verified to ANSI/TIA-568.2-D Category 6
- ISO/IEC 11801 Class E
- RoHS Compliant
- NEC Article 800 (Plenum Rated)
- CPR: C(m) per EN 50575

PACKAGING

- 1000 ft (305 m) per pull box
- Easy-pull dispensing
- Box Dimensions: 17" L x 17" W x 11" H
- Box Weight: Approx. 30 Lbs