

Category 6E CMP-LP

Category 6E 550 MHz CMP-LP



Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

1. **Conductor:** Bare solid copper
2. **Insulation:** Fluorinated Polyethylene FPE
3. **Separator:** Spline separator cabled and jacketed
4. **Rip Cord:** Rip cord for ease of jacket removal
5. **Jacket:** Flame Retardant Polyvinyl Chloride PVC.

APPLICATIONS AND FEATURES:

Tanner Cat 6E unshielded twisted pair cable is a high performance data communication cable. This ethernet cable is designed for indoor and riser network installations type CMP (Plenum rated communication cable), may be used in Ethernet Networking system, PoE applications, Video MPEG4 / M-JPEG/ Digital / Analog / Baseband / Broadband and other Multimedia Voice applications.

- DC Resistance: <9.38 ohm/100m
- DC Resistance Unbalance: <5.00%
- Mutual Capacitance: <5.60 nF/100m
- Capacitance Unbalance (Pair to Ground): <330 pF/100m
- Insulation Resistance: >500 MOhm/100m
- Impedance (mean): >100+/- 15% (1 < freq < 250MHz)
- Propagation Delay Skew: <45 nano sec /100m

SPECIFICATIONS:

- UL 444 Listed CMP
- IEEE 802.3 and IEC 61156-5 Ed. 2.0
- RoHS-3 Complies with European Directive 2015/863
- NFPA 262
- TIA/EIA 568.D.2 test to 550MHz, beyond 250MHz only for reference
- NEC Article 800



SAMPLE PRINT LEGEND:

6EP CAT 6E TANNER I99997 LBI 23AWG 4PR UTP TYPE CMP LP (0.6A) 105C C(UL)US LISTED ETL
VERIFIED TO TIA/EIA 568.D.2 CATEGORY 6 RoHS 2 COMPLIANT YYMMDD 0000FT

Table 1 – Weights and Measurements

Stock Number	Cond. Size	Number of Pairs	Jacket Thickness	Approx. OD	Approx. Weight
	AWG/Kcmil	pair	mil	inch	lb/1000ft
20CAT-6E-CMP-LP	23	4	14	0.228	31

All dimensions are nominal and subject to normal manufacturing tolerances

Table 2 – Weights and Measurements (Metric)

Stock Number	Cond. Size	Number of Pairs	Jacket Thickness	Approx. OD	Approx. Weight
	AWG/Kcmil	pair	mm	mm	lb/km
20CAT-6E-CMP-LP	23	4	0.36	5.79	46

Electrical Performance

Frequency (MHz)	Insertion Loss Maximum (dB/100m)	NEXT Minimum (dB/100m)	PSNEXT Minimum (dB/100m)	Return Loss Minimum (dB/100m)
1	2.0	74.3	72.3	20.0
4	3.8	65.3	63.3	23.0
8	5.3	60.8	58.8	24.5
10	6.0	59.3	57.3	25.0
16	7.6	56.2	54.2	25.0
20	8.5	54.8	52.8	25.0
25	9.5	53.3	51.3	24.3
31.25	10.7	51.9	49.9	23.6
62.5	15.4	47.4	45.4	21.5
100	19.8	44.3	42.3	20.1
155	25.2	41.4	39.4	18.8
200	29.0	39.8	37.8	18.0
250	32.8	38.3	36.3	17.3
300	36.4	37.1	35.1	16.8
350	39.8	36.1	34.1	16.3
400	43.0	35.3	33.3	15.9
500	48.9	33.8	31.8	15.2
550	51.8	33.2	31.2	14.9
600	54.5	32.6	30.6	14.7

