Category 6 CMP-LP

Category 6 250 MHz CMP-LP

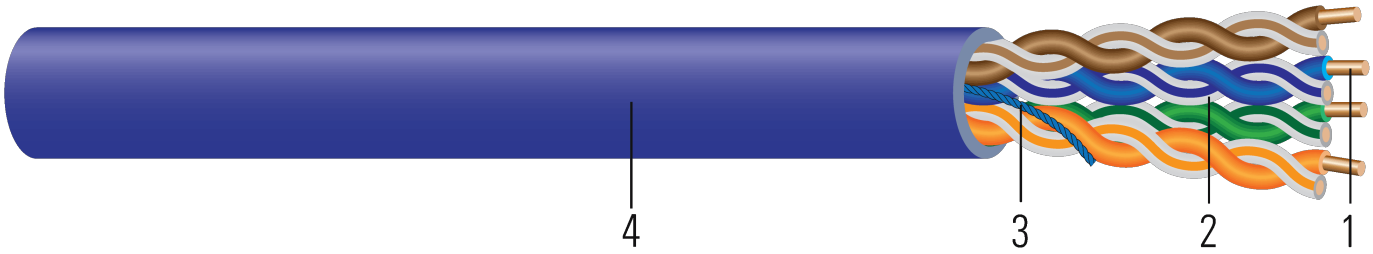

Image not to scale. See Table 1 for dimensions.

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:

Southwire Cat 6 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 Ω/100m
- DC Resistance Unbalance: <5.00%
- Mutual Capacitance: <5.60 nF/100m
- Capacitance Unbalance (Pair to Ground): <330 pF/100m
- Insulation Resistance: >500 MΩ/100m
- Dielectric Strength: 2.5 DCkV/sec
- 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 (Cat.6) Standard
- NEC Article 800

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SAMPLE PRINT LEGEND:

6P CAT6 SOUTHWIRE® TAPPAN™ I99993 E118871 LBI 23AWG 4PR UTP TYPE CMP LP (105 C C(UL)US LISTED TYPE CMP FT6 UL VERIFIED TO TIA/EIA 568.D.2 RoHS 2 COMPLIANT XX/XX/XX/XX 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
I99993	23	4	18	0.213	26

All dimensions are nominal and subject to normal manufacturing tolerances
◊ Cable marked with this symbol is a standard stock item

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
I99993	23	4	0.46	5.41	39

Electrical Performance

Freq. (MHz)	Attenuation (dB/ 100m)Max	NEXT (dB/ 100m) Min	PSNEXT (dB/ 100m)Min	ELFEXT (dB/ 100m)Min	PSELFEXT (dB/ 100m)Min	TCL (dB/ 100m) Min	RL (dB/ 100m) Min	P.Delay (ns/ 100m)Max
1	2	74.3	72.3	67.8	64.8	40	20	570
4	3.8	65.3	63.3	55.8	52.8	40	23	552
8	5.5	60.8	58.8	49.7	46.7	40	24.5	547
10	6	59.3	57.3	47.8	44.8	40	25	545
16	7.6	56.2	54.2	43.7	40.7	38	25	543
20	8.5	54.8	52.8	41.8	38.8	37	25	542
25	9.5	53.3	51.3	39.8	36.8	36	24.3	541
31.25	10.7	51.9	49.9	37.9	34.9	35.1	23.6	540
62.5	15.4	47.4	45.4	31.9	28.9	32	21.5	539
100	19.8	44.3	42.3	27.8	24.8	30	20.1	538
200	29	39.8	37.8	21.8	18.8	27	18	537
250	32.8	38.3	36.3	19.8	16.8	26	17.3	536

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