



## Category 6A CMP



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 6A 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: <4.00%
- Mutual Capacitance: <5.50 nF/100m
- Capacitance Unbalance (Pair to Ground): <330 pF/100m
- Insulation Resistance: >100 MOhm/100m
- Impedance (mean): >100+/- 15% ohm (1 < freq < 500MHz)
- Nom Velocity of Propagation : 67%

### 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. 6A) Standard
- NEC Article 800

### SAMPLE PRINT LEGEND:

6AP AUGMENTED CAT6A SOUTHWIRE® TAPPAN™ I99981 E118871 LBI 23AWG 4PR U/UTP TYPE CMP C(UL)US LISTED  
75C CMP FT6 UL VERIFIED TO TIA/EIA 568.D.2 CAT6A RoHS 2 COMPLIANT YYMMDD 0000FT





**Table 1 – Weights and Measurements**

Stock Number	Cond. Size	Number of Pairs	Insul. Thickness	Jacket Thickness	Approx. OD	Approx. Weight
	AWG/Kcmil	pair	mil	mil	inch	lb/1000ft
199981	23	4	18	18	0.335	43

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	Insul. Thickness	Jacket Thickness	Approx. OD	Approx. Weight
	AWG/Kcmil	pair	mm	mm	mm	lb/km
199981	23	4	0.46	0.46	8.51	64

MHz	RL (Min-dB)	IL (Max-dB)	NEXT (Min-dB)	PSNEXT (Min-dB)	ELFEXT (Min-dB)	PSSELFEXT (Min-dB)	PSANEXT (Min-dB)	PSAELFEXT (Min-dB)	PD (Max-ns)	Skew (Max-ns)
1	20.00	2.08	74.30	72.30	67.80	64.80	67.00	67.00	583.23	45.00
4	23.01	3.08	65.27	63.27	55.76	52.76	67.00	66.20	583.23	45.00
8	24.52	5.31	60.75	58.75	49.74	46.74	67.00	60.10	583.70	45.00
10	25.00	5.93	59.30	57.30	47.80	44.80	67.00	58.20	583.76	45.00
16	25.00	7.49	56.24	54.24	43.72	40.72	67.00	54.10	583.89	45.00
20	25.00	8.38	54.78	52.78	41.78	38.78	67.00	52.20	583.96	45.00
25	24.32	9.38	53.33	51.33	39.84	36.84	67.00	50.20	539.02	45.00
31.25	23.64	10.50	51.88	49.88	37.90	34.90	67.00	48.30	539.10	45.00
62.5	21.54	14.99	47.36	45.36	31.88	28.88	65.60	42.30	539.35	45.00
100	20.11	19.14	44.30	42.30	27.80	24.80	62.50	38.20	539.54	45.00
200	18.00	27.58	39.78	37.78	21.78	18.78	58.00	32.20	539.86	45.00
250	17.32	31.07	38.33	36.33	19.84	16.84	56.50	30.20	539.97	45.00
300	16.77	34.27	37.14	35.14	18.26	15.26	55.30	28.70	540.07	45.00
400	15.89	40.05	35.27	33.27	15.76	12.76	53.50	26.20	540.24	45.00
500	15.21	45.26	33.82	31.82	13.82	10.82	52.00	24.20	540.38	45.00

