Category 5E CMR

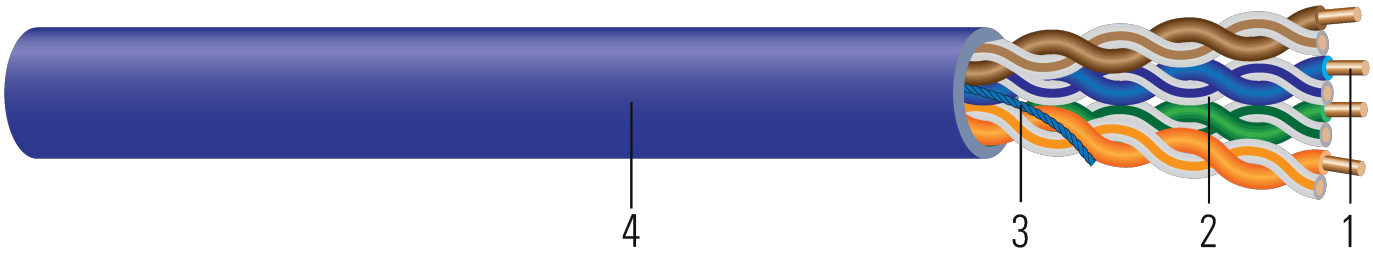

Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

1. **Conductor:** Bare solid copper
2. **Insulation:** Polyvinyl Chloride PVC
3. **Rip Cord:** Rip cord for ease of jacket removal
4. **Jacket:** Polyvinyl Chloride PVC.

APPLICATIONS AND FEATURES:

Southwire Cat 5e unshielded twisted pair cable is a high performance data communication cable. This ethernet cable is designed for indoor network installations TYPE CMR. It may be used in Ethernet Networking system, 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
- Dielectric Strength: 2.5 DCkV/sec
- Impedance (mean): >100+/- 15% (1 < freq < 350MHz)
- Propagation 011 Delay: <534 ns/100m
- Propagation 011 Delay Skew: <45 ns/100m

SPECIFICATIONS:

- UL 444 Listed CMR
- UL 1666 Standard for Test for Flame Propagation Height of Electrical and Optical-Fiber Cables Installed Vertically in Shafts
- IEEE 802.3 and IEC 61156-5 Ed. 2.0
- RoHS-3 Complies with European Directive 2015/863
- TIA/EIA 568.D.2 test to 350MHz , beyond 100MHz only for reference
- NEC Article 800

SAMPLE PRINT LEGEND:

CAT5E SOUTHWIRE® SIGNAL®96263 CAT5E 24AWG 4PR UTP C(UL)US LISTED E118871-LBI TYPE CMR 75C SUN RES TYPE CMR FT4 TESTED to 350MHZ ETL VERIFIED to TIA/EIA-568.D.2 CAT5E YYMMDD 0000FT

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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
96263	24	4	18	0.193	21

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
96263	24	4	0.46	4.90	31

Electrical Performance

Freq. (MHz)	Attenuation (dB/100m) Max	NEXT (dB/100m) Min	PSNEXT (dB/100m) Min	ELFEXT (dB/100m) Min	PSELFEXT (dB/100m) Min	RL (dB/100m) Min	P.Delay (ns/100m) Max
1	2	65.3	62.3	63.8	60.8	20	570
4	4.1	56.3	53.3	51.8	48.8	23	552
8	5.8	51.8	48.8	45.7	42.7	24.5	547
10	6.5	50.3	47.3	43.8	40.8	25	545
16	8.2	47.2	44.2	39.7	36.7	25	543
20	9.3	45.8	42.8	37.8	34.8	25	542
25	10.4	44.3	41.3	35.8	32.8	24.3	541
31.25	11.7	42.9	39.9	33.9	30.9	23.6	540
62.5	17	38.4	35.4	27.9	24.9	21.5	539
100	22	35.3	32.3	23.8	20.8	20.1	538
200	32.4	30.8	27.8	17.8	14.8	18	537
350	44.9	27.1	24.1	12.9	9.9	16.3	536

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