26AWG 4 Pair Shielded Industrial Ethernet Cable

Cat 5e. CM. CMX. 75°C. Sunlight Resistance. Outdoor Rated. RoHS-2

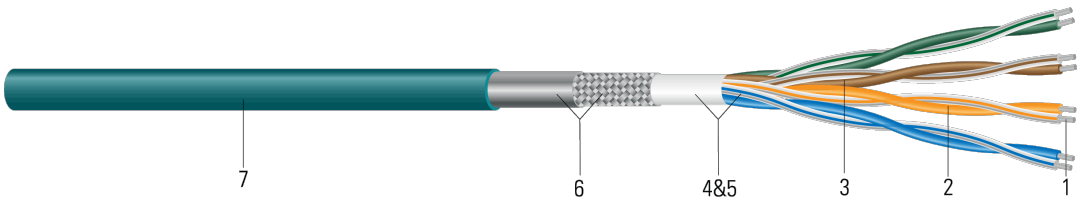


Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

1. **Conductor:** 26AWG, stranded, tinned copper per ASTM B33 and B174
2. **Insulation:** High Density Polyethylene (HDPE)
3. **Pairs:** Color coded singles twisted into pairs
4. **Color Code:** 1PR - White/Blue, Blue; 2PR - White/Orange, Orange; 3PR - White/Green, Green; 4PR - White/Brown, Brown
5. **Assembly:** Twisted pairs cabled together with filler and wrapped with clear polyester tape to form a round cable
6. **Shielding:** An overall shield of 38 AWG tinned copper braid (75% coverage) is applied over the cable core and under a second aluminized polyester foil shield (100% coverage).
7. **Jacket:** Teal, Thermoplastic Elastomer (TPE)

APPLICATIONS AND FEATURES:

Shielded Ethernet Cat 5e cable designed for the harsh industrial environment and provides excellent protection against EMI interference. It is suitable for continuous flexing cable track and torsion applications. For use for wiring network interconnections. Industrial strength jacket provides excellent resistance to low temperatures (-40°C), common oils and chemicals, flame, UV and weather exposure.

SPECIFICATIONS:

- ASTM B3 Soft or Annealed Copper Wire
- ASTM B33 Standard Specification for Tin-Coated Soft or Annealed Copper Wire
- ASTM B174 Standard Specification for Bunch-Stranded Copper
- UL 444 Communications Cables (22 AWG - 16 AWG)
- CSA C22.2 No.214 Communications cables
- RoHS-2 (European Directive 2011/65/EU)
- **CE/RoHS-2 – The CE Marking has been applied solely to express the conformance to the material restrictions identified in the RoHS-2 (2011/65/EU) Directive**

SAMPLE PRINT LEGEND:

Southwire Industrial Ethernet Cat 5e Flexing 4 PR 26AWG SF/UTP EXXXXXX- - C(UL)US TYPE CMX OUTDOOR - CM SUN RES 75C -- CE RoHS-2 -- (Lot Designator) (Sequential Footage) Made in USA

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Table 1 – Weights and Measurements

Stock Number	Cond. Size	Number of Pairs	Cond. Strands	Insul. Thickness	Jacket Thickness	Approx. OD	Approx. Weight	DC Resistance @ 25°C	Max Plug to Plug Transmission Distance + POE
	AWG/ Kcmil	pair	strand	mil	mil	inch	lb/1000ft	Ω/1000ft	meter
648560	26	4	7	9	37	0.245	35.6	14	67

All dimensions are nominal and subject to normal manufacturing tolerances
◊ Cable marked with this symbol is a standard stock item
TBA stock codes are estimations only and actual product may vary. Please wait until a stock code is assigned to purchase connectors and/or fittings.

ELECTRICAL CHARACTERISTICS (For 100m of Cable)

Mutual Capacitance:	13.5 PF/FT at 1 MHz	
Dielectric Withstanding:	1500V RMS	
Impedance:	100 ± 15 Ω 1-100 MHz	
Return Loss:	$1 \le f < 10$ MHz $10 \le f < 20$MHz $20 \le f \le 100$MHz	20 + 6 LOG(f) dB MIN* 26 dB MIN* 26 - 5LOG(f/20) dB MIN*
NEXT:	$1 \le f \le 100$MHz	35.3 -15 LOG(f/100) dB MIN
PSNEXT:	$1 \le f \le 100$MHz	32.3 -15 LOG(f/100) dB MIN
ACRF:	$1 \le f \le 100$MHz	23.8 - 20 LOG(f/100) dB MIN
PSACRF:	$1 \le f \le 100$MHz	20.8 - 20 LOG(f/100) dB MIN
Insertion Loss:	$1 \le f \le 100$MHz	1.5[1.967 SQRT(f) + 0.023(f) + 0.050/SQRT(f)] dB MAX
Delay:	$1 \le f \le 100$MHz	534 + 36/SQRT(F) ns MAX
Delay Skew:	$1 \le f \le 100$MHz	<25ns
Coupling Attenuation:	$30 \le f \le 100$MHz	≥ 50 dB per IEC 62153-4-9
Velocity of Propagation	68%	

* Per ODVA Volume 2 Ethernet/IP
Note: All testing is conducted off the reel

PERFORMANCE CHARACTERISTICS

Flex Life:	(126 cycles/minute @ 20°C)	1 million cycle test (10x Cable OD, minimum radius) 10 million cycle test (20x Cable OD, minimum radius)
Torsion Test:	(1lb load, 360°, 71 Cycles/min @ 20°C)	3 million cycle test

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