Shielded Single Pair Ethernet

Southwire's SPE network cable

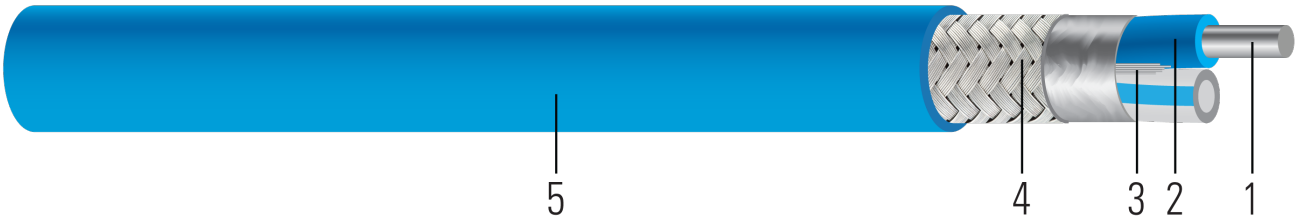

Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

1. **Conductor:** 18 AWG solid tinned copper per ASTM B33
2. **Insulation:** Twisted pair with premium foamed Polyethylene PE White, Blue.
3. **Filler:** Polyethylene as needed to make round.
4. **Shield** Mylar shield with overall tinned braid
5. **Jacket:** Polyvinyl Chloride (PVC) Blue.

APPLICATIONS AND FEATURES:

Southwire's SPE network cable helps enterprises realize their IoT and industry 4.0 goals by connecting intelligent devices across all levels of the organization. This cable allows for high-performance network data communication over long distances featuring a compact and robust design. SPE cable allows for scalable and compatible architectures to get the highest level of performance from intelligent assets to enable next-generation manufacturing.

Ratings:

- Building Automation: control cabinet wiring, field wiring
- Process Automation: field wiring sensors, final control elements
- Factory Automation: industrial control cabinet wiring, field wiring sensors
- Designed for 802.3cg and Ethernet-APL applications
- Compatible with M8 ISO/IEC 63171

SPECIFICATIONS:

- ASTM B3 Soft or Annealed Copper Wire
- ASTM B33 Standard Specification for Tin-Coated Soft or Annealed Copper Wire
- TIA/EIA 568 Standard

SAMPLE PRINT LEGEND:

Southwire 18 AWG Single Pair Ethernet Cable 300V TIA 568.5

Table 1 – Weights and Measurements

Stock Number	Cond. Size	Number of Pairs	Diameter Over Conductor	Insul. Thickness	Jacket Thickness	Approx. OD	Approx. Weight	Min Bending Radius	DC Resistance @ 25°C
	AWG/ Kcmil	pair	inch	mil	mil	inch	lb/1000ft	inch	Ω/1000ft
457383	18	1	0.040	30	35	0.310	69	3.7	6.669

All dimensions are nominal and subject to normal manufacturing tolerances

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◊ Cable marked with this symbol is a standard stock item

Table 2 – Weights and Measurements (Metric)

Stock Number	Cond. Size	Number of Pairs	Diameter Over Conductor	Insul. Thickness	Jacket Thickness	Approx. OD	Approx. Weight	Min Bending Radius	DC Resistance @ 25°C
	AWG/ Kcmil	pair	inch	mm	mm	mm	lb/km	mm	Ω/km
457383	18	1	0.040	0.76	0.89	7.87	103	93.98	21.88