



Specification Sheet

BWC Part Number #: BWC-16-50PRTC-SPOS

16AWG TC-ER SPOS Instrumentation Cables 600V 90°C

Application

TC-ER SPOS Instrumentation Cables are suitable for control, instrumentation, and process control circuits where protection against electrostatic interference from both outside of the cable and from pair to pair is needed. The cables are suitable for wet or dry applications, direct burial, indoor or outdoor locations, and for installation in cable trays, ducts, aerially, or conduits. They're rated for applications up to 600 volts and temperatures up to 90°C. These cables are also suitable for use in Class 1 Division 2 Hazardous locations per NEC.

Construction

- **Conductors:** Stranded soft drawn bare copper conductor, per ASTM B3 & B-8.
- **Insulation:** Polyvinyl Chloride (PVC) insulation with a nylon overcoat.
- **Shield:** An aluminum polyester foil with 100% coverage on each pair, an overall aluminum polyester foil with 100% coverage, and a tinned copper drain wire in contact with all shields.
- **Jacket:** A Polyvinyl Chloride (PVC) jacket, which is water, chemical, sunlight, and abrasion resistant.
- **Color Code:**
 - Pairs: Black and White Numbered.
 - Triads: Black, White and Red Numbered.

Standards

- UL type TC-ER
- UL 62, 83, 1277, 1581
- IEEE 383 70,000 BTU flame test
- NEC Article 336, 392, 501, 725

Part Number	Size AWG	No. of Pairs	No. of Triads	Jacket Thickness (inches)	Overall Diameter (inches)	Net Weight (lbs/mft)
16-02PRTC-SPOS	16	2		0.045	0.51	127

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Part Number	Size AWG	No. of Pairs	No. of Triads	Jacket Thickness (inches)	Overall Diameter (inches)	Net Weight (lbs/mft)
16-03PRTC-SPOS	16	3		0.045	0.598	145
16-04PRTC-SPOS	16	4		0.06	0.63	201
16-06PRTC-SPOS	16	6		0.06	0.74	270
16-08PRTC-SPOS	16	8		0.06	0.83	344
16-12PRTC-SPOS	16	12		0.08	1.03	521
16-16PRTC-SPOS	16	16		0.08	1.12	660
16-20PRTC-SPOS	16	20		0.08	1.245	801
16-24PRTC-SPOS	16	24		0.08	1.37	944
16-36PRTC-SPOS	16	36		0.08	1.56	1370
16-50PRTC-SPOS	16	50		0.08	1.79	1914
16-02TRTC-STOS	16		2	0.06	0.552	140
16-04TRTC-STOS	16		4	0.06	0.639	226
16-08TRTC-STOS	16		8	0.08	0.876	440
16-12TRTC-STOS	16		12	0.08	1.001	615
16-16TRTC-STOS	16		16	0.08	1.151	801
16-24TRTC-STOS	16		24	0.08	1.396	1140

ALL SPECIFIED PARAMETERS WITHOUT A TOLERANCE ARE NOMINAL AND SUBJECT TO VERIFICATION. BEST WIRE IS NOT RESPONSIBLE FOR UNKNOWN PERFORMANCE ATTRIBUTES THAT WERE NOT MADE KNOWN TO BEST WIRE AT THE TIME OF DESIGN.

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