



## Specification Sheet

**BWC Part Number #: BWC-18-12PRTC-SPOS**

### **18AWG 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 can be installed in cable trays, ducts, aerially, or conduits. They are rated for applications up to 600 volts and temperatures up to 90°C and are 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





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Part Number	Size AWG	No. of Pairs	No. of Triads	Jacket Thickness (inches)	Overall Diameter (inches)	Net Weight (lbs/kft)
18-02PRTC-SPOS	18	2		0.045	0.47	94
18-03PRTC-SPOS	18	3		0.045	0.476	121
18-04PRTC-SPOS	18	4		0.045	0.52	139
18-06PRTC-SPOS	18	6		0.06	0.566	182
18-08PRTC-SPOS	18	8		0.06	0.72	257
18-12PRTC-SPOS	18	12		0.06	0.85	359
18-16PRTC-SPOS	18	16		0.08	0.96	490
18-20PRTC-SPOS	18	20		0.08	1.085	592
18-24PRTC-SPOS	18	24		0.08	1.21	695
18-36PRTC-SPOS	18	36		0.08	1.4	978
18-50PRTC-SPOS	18	50		0.08	1.54	1314
18-01 TRTC-STOS	18		1	0.047	0.283	51
18-02TRTC-STOS	18		2	0.045	0.473	95
18-04TRTC-STOS	18		4	0.06	0.557	190
18-08TRTC-STOS	18		8	0.06	0.718	327
18-12TRTC-STOS	18		12	0.08	0.909	495
18-24TRTC-STOS	18		24	0.08	1.242	899

**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.**

**GET WIRED**

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Information on this specification is subject to change without notice. REV 03062023



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