



Specification Sheet

BWC Part Number #: BWC-14-04PRTC-SPOS

14AWG 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 the cable and from pair to pair is needed. These cables are suitable for wet or dry applications, direct burial, and for installation in cable trays, ducts, aerially, or conduits in indoor or outdoor locations. 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, with 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 are Black and White 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 | Jacket Thickness (inches) | Overall Diameter (inches) | Net Weight (lbs/mft) |
|----------------|-------------|-----------------|------------------------------|------------------------------|-------------------------|
| 14-02PRTC-SPOS | 14 | 2 | 0.045 | 0.57 | 156 |
| 14-04PRTC-SPOS | 14 | 4 | 0.06 | 0.73 | 285 |



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



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| Part Number | Size AWG | No. of Pairs | Jacket Thickness (inches) | Overall Diameter (inches) | Net Weight (lbs/mft) |
|----------------|-------------|-----------------|------------------------------|------------------------------|-------------------------|
| 14-08PRTC-SPOS | 14 | 8 | 0.06 | 0.93 | 520 |
| 14-12PRTC-SPOS | 14 | 12 | 0.08 | 1.16 | 788 |
| 14-24PRTC-SPOS | 14 | 24 | 0.08 | 1.58 | 1445 |



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.

