Specification Sheet

BWC Part Number #: BWC- 18-12PRTC-OS

18AWG TC-ER OS Instrumentation Cables 600V 90°C

APPLICATION: These TC-ER OS Instrumentation Cables are designed for control, instrumentation, and process control circuits where protection against electrostatic interference 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 in conduits. They are 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 the NEC.

CONSTRUCTION:

- **CONDUCTORS:** Stranded soft drawn bare copper conductor, per ASTM B3 & B-8.
- **INSULATION:** Polyvinyl Chloride (PVC) insulation with a nylon overcoat.
- **SHIELD:** Aluminum polyester foil with 100% coverage, in contact with a tinned copper drain wire.
- **JACKET:** A Polyvinyl Chloride (PVC) jacket that is resistant to water, chemicals, sunlight, and abrasion.
- **COLOR CODE:** Conductors are black and white, and 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)
18-01PRTC-OS	18	1	0.045	0.27	42
18-02PRTC-OS	18	2	0.05	0.34	77
18-03PRTC-OS	18	3	0.05	0.407	99

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Part Number	Size AWG	No. of Pairs	Jacket Thickness (inches)	Overall Diameter (inches)	Net Weight (lbs/mft)
18-04PRTC-OS	18	4	0.05	0.442	114
18-08PRTC-OS	18	8	0.06	0.617	208
18-12PRTC-OS	18	12	0.06	0.728	286
18-16PRTC-OS	18	16	0.06	0.821	361
18-24PRTC-OS	18	24	0.08	1.018	544
18-36PRTC-OS	18	36	0.08	1.209	765
18-50PRTC-OS	18	50	0.08	1.396	1017

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