

18AWG TC-ER OS Instrumentation Cables

600V 90°C



APPLICATION:

TC-ER OS Instrumentation Cables are suitable 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, installed in cable trays, ducts, aerially or conduits and for applications up to 600 volt and temperatures up to 90°C. TC-ER OS Instrumentation Cables are suitable for use in Class 1 Division 2 Hazardous locations per NEC.

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 and in contact with a tinned copper drain wire

JACKET:

- Polyvinyl Chloride (PVC) jacket, which is water, chemical, sunlight and abrasion resistant

COLOR CODE:

- 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	No. of Pairs	Jacket Thickness		Overall Diameter		Net Weight
	AWG		inches	mm	inches	mm	lbs/mft
18-01PRTC-OS	18	1	0.045	1.14	0.270	6.86	42
18-02PRTC-OS	18	2	0.050	1.27	0.340	8.64	77
18-03PRTC-OS	18	3	0.050	1.27	0.407	10.34	99
18-04PRTC-OS	18	4	0.050	1.27	0.442	11.23	114
18-08PRTC-OS	18	8	0.060	1.52	0.617	15.67	208
18-12PRTC-OS	18	12	0.060	1.52	0.728	18.49	286
18-16PRTC-OS	18	16	0.060	1.52	0.821	20.85	361
18-24PRTC-OS	18	24	0.080	2.03	1.018	25.86	544
18-36PRTC-OS	18	36	0.080	2.03	1.209	30.71	765
18-50PRTC-OS	18	50	0.080	2.03	1.396	35.46	1017

All values are nominal and subject to correction



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