

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, installed in cable trays, ducts, aerially or conduits and for applications up to 600 volt and temperatures up to 90°C. TC-ER SPOS 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 on each pair, with an overall aluminum polyester foil with 100% coverage with a tinned copper drain wire in contact with all shields

JACKET:

- 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	No. of Pairs	No. of Triads	Jacket Thickness		Overall Diameter		Net Weight
	AWG			inches	mm	inches	mm	lbs/kft
18-02PRTC-SPOS	18	2		0.045	1.14	0.470	11.94	94
18-03PRTC-SPOS	18	3		0.045	1.14	0.476	12.09	121
18-04PRTC-SPOS	18	4		0.045	1.14	0.520	13.21	139
18-06PRTC-SPOS	18	6		0.060	1.52	0.566	14.38	182
18-08PRTC-SPOS	18	8		0.060	1.52	0.720	18.29	257
18-12PRTC-SPOS	18	12		0.060	1.52	0.850	21.59	359
18-16PRTC-SPOS	18	16		0.080	2.03	0.960	24.38	490
18-20PRTC-SPOS	18	20		0.080	2.03	1.085	27.56	592
18-24PRTC-SPOS	18	24		0.080	2.03	1.210	30.73	695
18-36PRTC-SPOS	18	36		0.080	2.03	1.400	35.56	978
18-50PRTC-SPOS	18	50		0.080	2.03	1.540	39.12	1314
18-01TRTC-STOS	18		1	0.047	1.19	0.283	7.19	51
18-02TRTC-STOS	18		2	0.045	1.14	0.473	12.01	95
18-04TRTC-STOS	18		4	0.060	1.52	0.557	14.15	190
18-08TRTC-STOS	18		8	0.060	1.52	0.718	18.24	327
18-12TRTC-STOS	18		12	0.080	2.03	0.909	23.09	495
18-24TRTC-STOS	18		24	0.080	2.03	1.242	31.55	899

All values are nominal and subject to correction



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