



Specification Sheet

BWC Part Number #: BWC-18-50PRPLTC-SPOS

18AWG PLTC SPOS Instrumentation Cables 300V 105°C

APPLICATION: Power Limited Tray Cable (PLTC) 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 can be installed indoors or outdoors in cable trays, ducts, aerially, or conduits. They are rated for applications up to 300 volts and temperatures up to 105°C.

CONSTRUCTION:

- **CONDUCTORS:** 7 Strand class B annealed bare copper conductor, per ASTM B3 & B8.
- **INSULATION:** Polyvinyl Chloride (PVC) insulation.
- **SHIELD:** FFE Aluminum Mylar with 100% coverage on each pair, with an overall aluminum mylar tape also providing 100% coverage. A 7-strand tinned copper drain wire is in contact with all shields. A clear mylar cable binder is included as needed.
- **JACKET:** A black Polyvinyl Chloride (PVC) jacket that is water, chemical, sunlight, and abrasion resistant, with a ripcord for easy stripping.
- **COLOR CODE:**
 - **Pairs:** Black and White, Numbered.
 - **Triads:** Black, White, and Red, Numbered.

STANDARDS:

- UL listed as type PLTC & CL3 per UL standard 13 and as type ITC per UL standard 2250.
- Suitable for installations under NEC (NFPA 70) article 725 and article 727 guidelines.
- Suitable for use in Class I Division 2 hazardous locations.
- EPA 40 CFR, part 261.
- Cold bend rating of -40°C.
- UL approved for Sunlight Resistant Applications and meets the IEEE 1202 flame test.
- Marked as (UL) ITC Sunlight Resistant or PLTC or CL3 FT4.

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- REACH compliant per Regulation (EC) No 1907/2006 (219).

Part Number	Size AWG	No. of Pairs	No. of Triads	Jacket Thickness (inches)	Overall Diameter (inches)	Net Weight (lbs/kft)
18-02PRPLTC-SPOS	18	2		0.04	0.28	55
18-03PRPLTC-SPOS	18	3		0.04	0.363	81
18-04PRPLTC-SPOS	18	4		0.05	0.432	109
18-06PRPLTC-SPOS	18	6		0.045	0.51	166
18-08PRPLTC-SPOS	18	8		0.05	0.559	193
18-12PRPLTC-SPOS	18	12		0.06	0.694	289
18-16PRPLTC-SPOS	18	16		0.06	0.756	366
18-20PRPLTC-SPOS	18	20		0.07	1.038	614
18-24PRPLTC-SPOS	18	24		0.07	0.936	547
18-36PRPLTC-SPOS	18	36		0.07	1.093	778
18-50PRPLTC-SPOS	18	50		0.05	0.431	108
18-04TRPLTC-STOS	18		4	0.05	0.476	160
18-08TRPLTC-STOS	18		8	0.06	0.635	293
18-12TRPLTC-STOS	18		12	0.06	0.764	416
18-16TRPLTC-STOS	18		16	0.06	0.849	533
18-24TRPLTC-STOS	18		24	0.07	1.07	793
18-36TRPLTC-STOS	18		36	0.07	1.224	1137

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.

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