



Specification Sheet

BWC Part Number #: BWC-18-02PRPLTC-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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Information on this specification is subject to change without notice. REV 03062023





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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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