



Specification Sheet

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

18AWG PLTC OS Instrumentation Cables 300V 105°C

APPLICATION: Power Limited Tray Cable Instrumentation Cables are suitable for control, instrumentation, and process control circuits where protection against electrostatic interference is needed. These cables are suitable for wet or dry applications, direct burial, and can be installed in cable trays, ducts, aerially, or conduits in both indoor and outdoor locations. They are rated for applications up to 300 volts and temperatures up to 105°C.

CONSTRUCTION:

- **CONDUCTORS:** Stranded soft drawn bare copper conductor, per ASTM B3 & B-8.
- **INSULATION:** Polyvinyl Chloride (PVC) insulation.
- **SHIELD:** FFE Aluminum polyester foil with 100% coverage and in contact with a 7 strand tinned copper drain wire. A clear mylar cable binder is used as needed.
- **JACKET:** A 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 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.
- REACH compliant per Regulation (EC) No 1907/2006 (219).

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Part Number	Size AWG	No. of Pairs	No. of Triads	Jacket Thickness (inches)	Overall Diameter (inches)	Net Weight (lbs/kft)
18-01PRPLTC-OS	18	1		0.035	0.23	34
18-02PRPLTC-OS	18	2		0.045	0.302	67
18-04PRPLTC-OS	18	4		0.05	0.413	105
18-08PRPLTC-OS	18	8		0.05	0.541	176
18-12PRPLTC-OS	18	12		0.06	0.659	257
18-16PRPLTC-OS	18	16		0.06	0.742	326
18-24PRPLTC-OS	18	24		0.072	0.901	476
18-36PRPLTC-OS	18	36		0.072	1.071	675
18-50PRPLTC-OS	18	50		0.072	1.236	901
18-01TRPLTC-OS	18		1	0.035	0.24	42
18-02TRPLTC-OS	18		2	0.05	0.413	96
18-04TRPLTC-OS	18		4	0.05	0.476	141
18-08TRPLTC-OS	18		8	0.06	0.635	254
18-12TRPLTC-OS	18		12	0.06	0.704	358
18-16TRPLTC-OS	18		16	0.06	0.849	454
18-24TRPLTC-OS	18		24	0.072	1.07	674
18-36TRPLTC-OS	18		36	0.072	1.224	959
18-50TRPLTC-OS	18		50	0.08	1.462	1321

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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