



Specification Sheet

BWC Part Number #: BWC-16-12PRTC-SPOS-XLCPE

SPOS XLPE/CPE 600V Shielded Tray Cable

APPLICATION: This cable is primarily used for power, control, signal, communication, and lighting circuits in commercial and industrial environments such as utility generating stations, sub-stations, chemical plants, fertilizer plants, and nuclear plants. It may be installed in wet or dry locations at

90°C or in areas exposed to chemicals and oils.

CONSTRUCTION:

- **CONDUCTORS:** Fully annealed tinned copper Class B stranded.
- **INSULATION:** Flame retardant Cross-linked Polyethylene (XLPE) that is heat and moisture resistant.
- **ASSEMBLY:** The cable is assembled with a foil-free edged Aluminum/Mylar Tape with 100% coverage on each pair, an overall Aluminum/Mylar Tape with 100% coverage, and a stranded tinned copper drain wire that is in contact with all shields.
- **JACKET:** The jacket is a flame and sunlight resistant black Chlorinated Polyethylene (CPE) with a ripcord, rated for 90°C wet or dry per UL 1277.
- **COLOR CODE:** The pairs are color-coded with Black & White and are numbered.

STANDARDS:

- UL Listed as TC-ER per UL Standard 1277 for tray cables with 3+ conductors.
- Approved for Class 1 Division 2 industrial hazardous locations per NEC.
- UL approved for Direct Burial, Sunlight and Oil Res I & II Resistant applications.
- Rated at 90°C wet or dry.
- Cold bend rated at -25°C.
- Meets UL 1581 & 1202 (FT-4) 70,000 BTU/HR & ICEA T-29-520 210,000 BTU/HR flame test requirements.
- Meets ICEA S-73-532, where applicable.
- RoHS II & REACH compliant.

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Information on this specification is subject to change without notice. REV 03062023





Specification Sheet

Part Number	Conductor Size AWG	Pair Count	No. of Strands	Drain Wire AWG	Insulation Thickness (inches)	Jacket Thickness (inches)	Overall Diameter (inches)	Net Weight (lbs/Mft)
18-02PRTC-SPOS-XLCPE	18	2	7	18	0.03	0.045	0.463	119
18-04PRTC-SPOS-XLCPE	18	4	7	18	0.03	0.06	0.606	220
18-06PRTC-SPOS-XLCPE	18	6	7	18	0.03	0.06	0.747	315
18-08PRTC-SPOS-XLCPE	18	8	7	18	0.03	0.06	0.787	391
18-12PRTC-SPOS-XLCPE	18	12	7	18	0.03	0.08	0.978	591
18-16PRTC-SPOS-XLCPE	18	16	7	18	0.03	0.08	1.095	753
18-24PRTC-SPOS-XLCPE	18	24	7	18	0.03	0.08	1.305	1073
16-02PRTC-SPOS-XLCPE	16	2	7	16	0.03	0.045	0.463	119
16-04PRTC-SPOS-XLCPE	16	4	7	16	0.03	0.06	0.606	220





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16-06PRTC-SPOS-XLCPE	16	6	7	16	0.03	0.06	0.747	315
16-08PRTC-SPOS-XLCPE	16	8	7	16	0.03	0.06	0.787	391
16-12PRTC-SPOS-XLCPE	16	12	7	16	0.03	0.08	0.978	591
16-16PRTC-SPOS-XLCPE	16	16	7	16	0.03	0.08	1.095	753
16-24PRTC-SPOS-XLCPE	16	24	7	16	0.03	0.08	1.305	1073

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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