



Specification Sheet

BWC Part Number #: BWC-18-12PRTC-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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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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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)
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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