



Specification Sheet

BWC Part Number #: BWC-16-02PRTC-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





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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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|----------------------|--------------------|------------|----------------|----------------|-------------------------------|---------------------------|---------------------------|----------------------|
| 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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