

# Technical Data Sheet

**Rosenberger**  
Rosenberger Site Solutions, LLC

## 6 AWG 12 Conductors with Corrugated Copper Tape - No alarm wire

WR-PT612-000

**Description:** 6 AWG 12 conductor 19 strand bare copper with polyvinylchloride and nylon insulation, a corrugated bare copper tape shield with an overall PVC jacket 600V control tray cable, approved for use in SUN RES DIR BUR 90°C applications.

### 1. Conductor

- 1.1. AWG Size & Stranding: 6 AWG 19 Strands ASTM B787
- 1.2. Material: Annealed Bare Copper
- 1.3. Conductor Count: 12 Conductors

### 2. Insulation

- 2.1. Material: Polyvinylchloride & Nylon
- 2.2. Wall Thickness: 0.030" PVC & 0.006" Nylon
- 2.3 Color Code: Black/Blue #1, Red/Blue #1, Black/Violet #2, Red/Violet #2, Black/Green #3, Red/Green #3, Black/Brown #4, Red/Brown #4, Black/Yellow #5, Red/Yellow #5, Black/White #6, Red/White #6

### 3. Assembly

- 3.1. Lay Length: 15.75" LHL
- 3.2. Fillers: Non-Hygroscopic Polypropylene - As required for a circular cross-section
- 3.3. Binder: Clear Mylar wrap binder-100% coverage
- 3.4. Shield: 0.005" Corrugated Bare Copper Tape - 20% minimum overlap
- 3.5. Drain Wire: N/A

### 4. Jacket

- 4.1. Material: Polyvinylchloride
- 4.2. Wall Thickness: 0.080"
- 4.3. Diameter: 1.272" ± 0.030"
- 4.4. Color: Black
- 4.5. Ripcord: Yes
- 4.6. Cold Bend Rating: -40°C
- 4.7. Weight: 1.523 lbs/ft

### 5. Markings

- 5.1. Type: Cable permanently identified via surface inkjet print
- 5.2. Legend: Rosenberger WR-PT612-000 E208309 6AWG 12C (UL) TC-ER THWN-2/VW-1 600V 90C DRY/WET CORRUGATED BARE COPPER TAPE SHIELD PVC JACKET SUN RES DIR BUR FT4 "ROHS COMPLIANT" MADE IN USA
- 5.3. Footage Markers: Yes

### 6. Standards

- 6.1. Refer to NEC (NFPA 70) article 336 for installation guidelines
- 6.2. Cable is suitable for use in Class I Division 2 hazardous locations
- 6.3. Individual conductors pass UL VW-1 flame test, rated THWN-2/VW-1
- 6.4. UL listed as Type TC-ER per UL Standard 1277 for tray cables
- 6.5. UL approved for Direct Burial and Sunlight Resistant applications
- 6.6. Cable meets UL 1581 & 1202 (FT-4) 70,000 BTU/HR & ICEA T-29-520 210,000 BTU/HR requirements
- 6.7. Meets ICEA S-73-532, where applicable
- 6.8. Cable meets RoHS 2002/95/EC Directive, RoHS 2 2011/65/EU Directive, RoHS 3 2015/863/EU Directive
- 6.9. Cable is REACH compliant per Regulation (EC) No 1907/2006 (197) Updated January 15, 2019
- 6.10. Made in the USA

**ALL SPECIFIED PARAMETERS ARE NOMINAL AND SUBJECT TO VERIFICATION**

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