

Technical Data Sheet

Rosenberger
Rosenberger Site Solutions, LLC

8 AWG 2 Conductor 600V Power Cable

WR-VG82ST-BRDA

Description: 8 AWG 2 conductor 168 strand tinned copper with polyvinylchloride and nylon insulation, an uninsulated tinned copper ground conductor shielded 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: 8 AWG 168 Strands
- 1.2. Material: Annealed Tinned Copper
- 1.3. Conductor Count: 2 Conductors

2. Insulation

- 2.1. Material: Polyvinylchloride & Nylon
- 2.2. Wall Thickness: 0.030" PVC & 0.006" Nylon
- 2.3. Color Code: Black, Red

3. Assembly

- 3.1. Lay Length: 6.50" LHL
- 3.2. Ground: Uninsulated - 10 AWG 105 Strand Tinned Copper
- 3.3. Fillers: Non-Hygroscopic Polypropylene - As required for a circular cross-section
- 3.4. Binder: Clear Mylar
- 3.5. Shield: Aluminum Mylar-100% coverage
- 3.6. Drain Wire: 12 AWG 7 Strands Tinned Copper
- 3.7. Braid: 36 AWG Tinned Copper - 65% Minimum coverage

4. Jacket

- 4.1. Material: Polyvinylchloride
- 4.2. Wall Thickness: 0.060"
- 4.3. Diameter: 0.601" $\pm$ 0.050"
- 4.4. Color: Black
- 4.5. Ripcord: Yes
- 4.6. Cold Bend Rating: -40°C
- 4.7. Weight: 0.288 lbs./ft.

5. Markings

- 5.1. Type: Cable shall be permanently identified via surface inkjet print
- 5.2. Legend: .Rosenberger: flex E351969 8AWG 2C SHIELDED (UL) TC-ER THWN-2/VW-1 UNINSULATED GROUND 600V 90°C DRY/WET PVC JACKET SUN RES DIR BUR FT4 "ROHS II" 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. UL listed as Type TC-ER per UL Standard 1277 for tray cables
- 6.4. UL approved for Direct Burial and Sunlight Resistant applications
- 6.5. Individual conductors pass UL VW-1 flame test, rated THWN-2/VW-1
- 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-95-658, where applicable
- 6.8. All materials used in the manufacture of this cable are RoHS II & REACH compliant
- 6.9. Made in the USA

ALL SPECIFIED PARAMETERS ARE NOMINAL AND SUBJECT TO VERIFICATION

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