

Technical Data Sheet

Rosenberger
Rosenberger Site Solutions, LLC

10 AWG 2 Conductor 600V Power Cable

WR-VG102ST-BRDA

Description: 10 AWG 2 conductor 105 strand tinned copper with polyvinylchloride and nylon insulation, an uninsulated tinned copper ground conductor, an aluminum/mylar shield with a stranded tinned copper drain wire, a tinned copper braid 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: 10 AWG 105 Strands Class K
- 1.2. Material: Annealed Tinned Copper
- 1.3. Conductor Count: 2 Conductors

2. Insulation

- 2.1. Material: Polyvinylchloride & Nylon
- 2.2. Wall Thickness: 0.020" PVC & 0.005" Nylon
- 2.3. Color Code: Black, Red

3. Assembly

- 3.1. Lay Length: 5.00" 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 shield - 100% coverage
- 3.6. Drain: 14 AWG 7 strand Tinned Copper
- 3.7. Braid: 36 AWG Tinned Copper Braid – 65% Minimum coverage

4. Jacket

- 4.1. Material: Polyvinylchloride
- 4.2. Wall Thickness: 0.045"
- 4.3. Diameter: 0.472" ± 0.040"
- 4.4. Color: Black
- 4.5. Ripcord: Yes
- 4.6. Cold Bend Rating: -40°C
- 4.7. Weight: 0.184 lbs./ft.

5. Markings*

- 5.1. Type: Cable shall be permanently identified via surface inkjet print
- 5.2. Legend: .Rosenberger: flex E351969 10AWG 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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