

Technical Data Sheet

Rosenberger
Rosenberger Site Solutions, LLC

RSS Power Cable
8 AWG 2 Conductors

WR-PT82-BR

1. Conductor

- 1.1 AWG Size & Stranding: 8 AWG, 168 Strands
1.2 Material: Annealed Tinned Copper 1.3 DC Resistance: 0.614 ohms/1000 ft @ 20°C

2. Insulation

- 2.1 Material: Polyvinylchloride & Nylon per UL Standard 83, Type THHN/THWN/VW-1
2.2 Wall Thickness: 0.030" PVC & 0.006" Nylon - The minimum at any point shall not be less than 90% of the specified wall thickness

3. Color Code

- 3.1 Code: Red, Black

4. Assembly

- 4.1 Lay Length: Per UL Standard 1277
4.2 Fillers: Non-Hygroscopic Polypropylene - As required for a circular cross-section
4.3 Binder: Clear Mylar
4.4 Shield: Aluminum/Mylar Tape - 100% coverage
4.5 Drain Wire: 12 AWG, 7 Strand Tinned Copper
4.6 Shield: 36 AWG Tinned Copper Braid – 65% minimum coverage
4.7 Ground: Uninsulated – 10 AWG, 105 Strand Tinned Copper
4.8 2ND Binder: Clear Mylar

5. Jacket

- 5.1 Material: Polyvinylchloride per UL Standard 1277
5.2 Wall Thickness: 0.060" - The minimum at any point shall not be less than 80% of the specified wall thickness
5.3 Diameter: 0.645"
5.4 Color: Black
5.5 Weight: 307 lbs./Mft.

6. Markings

- 6.1 Type: Cable shall be permanently identified via surface inkjet print
6.2 Legend: .Rosenberger flex 8AWG 2C SHIELDED (UL) TC-ER PVC/NYLON UNINSULATED GROUND 600V 90°C DRY 75°C WET PVC JACKET SUN RES DIR BUR OIL RES I FT4 "ROHS"

7. Standards

- 7.1 UL listed as Type TC-ER per UL Standard 1277 for tray cables
7.2 UL approved for Direct Burial, Sunlight and Oil I Resistant applications
7.3 Individual conductors pass UL VW-1 flame test, rated THHN/THWN/VW-1
7.4 Cable meets UL 1581 & 1202 (FT-4) 70,000 BTU/HR & ICEA T-29-520 210,000 BTU/HR requirements
7.5 Meets ICEA S-95-658, where applicable
7.6 Cold Temperature Rating: -40°C
7.7 All materials used in the manufacture of this cable are RoHS compliant



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