Super Vu-Tron® Welding Cable
90°C 600 Volt UL/CSA RHH/RHW

Product Construction:

Conductor:
- 6 through 4/0 AWG fully annealed stranded bare copper per ASTM B-172

Jacket:
- Super Vu-Tron®, Orange
- Temperature Range: -50°C to +90°C

Jacket Marking:
- #6 - #1 AWG: CAROL SUPER VU-TRON WELDING CABLE–EXTRA FLEXIBLE (UL) 600 VOLT (-50 to +90C) OIL RESISTANT P-123-141 MSHA (SIZE) --- CSA 90C ARC WELDING CABLE FT-1
- 1/0 - 4/0 AWG: CAROL SUPER VU-TRON WELDING CABLE (SIZE) EXTRA FLEXIBLE (UL) 600 VOLT (-50 to +90C) OIL RESISTANT P-123-141 MSHA --- CSA 90C ARC WELDING CABLE FT-1 --- TYPE RHH OR RHW (UL) 600V FOR CT USE.

Applications:
- Secondary voltage resistance welding leads
- Power supply applications not exceeding 600 Volt AC
- Sizes 1/0 and larger for permanent wiring in conduit or tray of 600V power supplies, hoists, cranes or other applications where flexible power leads must be installed in conduit, raceways or trays.

Features:
- UL Listed
- CSA Certified
- Excellent flexibility to last longer in flex applications
- Abrasion resistant
- Resists oils and solvents
- Rated -50ºC for use in cold environments
- Weather resistant
- Ozone resistant
- Safety colored for high visibility
- Assured longer service life, saving money in replacement costs, maintenance cost and downtime
- MSHA approved for flame resistance

Industry Approvals:
- UL Listed
- CSA Certified
- MSHA Approved
- Meets UL Vertical Flame Test per UL 854

Packaging:
- 250' (76.2 m), 500' (152.4 m), and 1000' (304.8 m) reels
- Other put-ups available on special order

Suggested Ampacities:
For 600 Volt In-Line Applications

<table>
<thead>
<tr>
<th>AWG</th>
<th>AMPERES</th>
<th>AWG</th>
<th>AMPERES</th>
</tr>
</thead>
<tbody>
<tr>
<td>4/0</td>
<td>405</td>
<td>1/0</td>
<td>220</td>
</tr>
<tr>
<td>3/0</td>
<td>350</td>
<td>2/0</td>
<td>140</td>
</tr>
<tr>
<td>2/0</td>
<td>300</td>
<td>1/0</td>
<td>105</td>
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</table>

Per Standards: ICEA S-19-81 NEMA WC-3 Part 8, Appendix J
Ampacities for portable cable in accordance with NEC Table 400.5(B).
May not be suitable for all installations per National Electrical Code®.

WELDING CABLE AMPACITIES
SINGLE CONDUCTOR

Required Cable Sizes: For Welding Cable Application

<table>
<thead>
<tr>
<th>AMPS</th>
<th>100°F</th>
<th>150°F</th>
<th>200°F</th>
<th>250°F</th>
<th>300°F</th>
<th>350°F</th>
<th>400°F</th>
</tr>
</thead>
<tbody>
<tr>
<td>100</td>
<td>2</td>
<td>1.5</td>
<td>1</td>
<td>0.9</td>
<td>0.8</td>
<td>0.7</td>
<td>0.6</td>
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<tr>
<td>150</td>
<td>1.5</td>
<td>1.2</td>
<td>0.8</td>
<td>0.6</td>
<td>0.5</td>
<td>0.4</td>
<td>0.3</td>
</tr>
<tr>
<td>200</td>
<td>1</td>
<td>0.8</td>
<td>0.6</td>
<td>0.5</td>
<td>0.4</td>
<td>0.3</td>
<td>0.2</td>
</tr>
<tr>
<td>250</td>
<td>0.8</td>
<td>0.6</td>
<td>0.5</td>
<td>0.4</td>
<td>0.3</td>
<td>0.2</td>
<td>0.1</td>
</tr>
<tr>
<td>300</td>
<td>0.8</td>
<td>0.6</td>
<td>0.5</td>
<td>0.4</td>
<td>0.3</td>
<td>0.2</td>
<td>0.1</td>
</tr>
<tr>
<td>350</td>
<td>0.8</td>
<td>0.6</td>
<td>0.5</td>
<td>0.4</td>
<td>0.3</td>
<td>0.2</td>
<td>0.1</td>
</tr>
<tr>
<td>400</td>
<td>0.8</td>
<td>0.6</td>
<td>0.5</td>
<td>0.4</td>
<td>0.3</td>
<td>0.2</td>
<td>0.1</td>
</tr>
</tbody>
</table>

The total circuit length includes both welding and ground leads (Based on 4-Volt drop) 60% duty cycle.

These values for current-carrying capacity are based on a copper temperature of 60°C (140°F), an ambient temperature of 40°C (104°F), and yield load factors of from approximately 32% for the No. 2 AWG cable to approximately 23% for the No. 3/0 AWG cable, and higher for the smaller sizes. The sizes of cables generally used range from No. 2 AWG to No. 3/0 AWG. In actual service, the load factor may be much higher than indicated without overheating the cable as the ambient temperature will generally be substantially lower than 40°C.