# Super Vu-Tron<sup>®</sup> Welding Cable 90°C, 600 Volt, UL/CSA, Types RHH/RHW

### Product Construction:

### Conductor:

 6 AWG through 4/0 AWG fully annealed stranded bare copper per ASTM B172 Class M

#### Jacket:

- Super Vu-Tron<sup>®</sup>, 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°C to +90°C) OIL RESISTANT P-123-141 MSHA (SIZE) --- CSA 90°C ARC WELDING CABLE FT1 MADE IN USA
- 1/0 4/0 AWG: CAROL SUPER VU-TRON<sup>®</sup> WELDING CABLE (SIZE) EXTRA FLEXIBLE (UL) 600 VOLT (-50°C to +90°C) OIL RESISTANT P-123-141 MSHA --- CSA 90°C ARC WELDING CABLE FT1 --- TYPE RHH OR RHW (UL) 600 V FOR CT USE MADE IN USA

### Applications:

- Secondary voltage resistance welding leads Power supply applications not exceeding
- 600 volts AC Sizes 1/0 and larger for permanent wiring in conduit or tray of 600 V 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 -50°C 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 Sunlight-resistant

# **Industry Approvals:**

# • UL Listed

- CSA Certified
- MSHA Approved
- Meets UL Vertical Flame Test per UL 854
- RoHS Compliant

### 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

| AWG | AMPERES | AWG | AMPERES |
|-----|---------|-----|---------|
| 4/0 | 405     | 1   | 220     |
| 3/0 | 350     | 2   | 190     |
| 2/0 | 300     | 4   | 140     |
| 1/0 | 260     | 6   | 105     |

Ampacities for portable cable in accordance with NEC Table 400.5(A)(2)

May not be suitable for all installations per National Electrical Code®.





## SUPER VU-TRON® WELDING CABLE-UL/CSA-CLASS M-34 AWG STRANDING

| CATALOG | AWG<br>SIZE | CONDUCTOR<br>Strand | NOMINAL O.D. |       | APPROX.<br>NET WT.   | STD. |
|---------|-------------|---------------------|--------------|-------|----------------------|------|
| NUMBER  |             |                     | INCHES       | mm    | LBS/M <sup>(S)</sup> | CTN. |
| 01768*  | 6           | 660/34              | 0.370        | 9.40  | 125                  | 250' |
| 01767*  | 4           | 1045/34             | 0.425        | 10.80 | 191                  | 250' |
| 01766   | 2           | 1634/34             | 0.475        | 12.07 | 259                  | 250' |
| 01765   | 1           | 2090/34             | 0.530        | 13.46 | 331                  | 250' |
| 01764†  | 1/0         | 2597/34             | 0.575        | 14.61 | 401                  | 250' |
| 01763†  | 2/0         | 3300/34             | 0.630        | 16.00 | 511                  | 250' |
| 01762†  | 3/0         | 4214/34             | 0.700        | 17.78 | 615                  | 250' |
| 01761†  | 4/0         | 5225/34             | 0.800        | 20.32 | 844                  | 250' |

Not MSHA Approved.

(S) Actual shipping weight may vary.

† Type RHH/RHW - 600 V for CT use.

# WELDING CABLE AMPACITIES SINGLE CONDUCTOR

# Required Cable Sizes: For Welding Cable Application

|      | length in feet for total circuit for secondary voltages only – do not use this table for 600 Volt in-line applications |      |          |           |           |           |        |  |
|------|--|------|----------|-----------|-----------|-----------|--------|--|
| AMPS | 100'   | 150' | 200'     | 250'      | 300'      | 350'      | 400'   |  |
| 100  | 4  | 4    | 2        | 2         | 1         | 1/0       | 1/0    |  |
| 150  | 4  | 2    | 1        | 1/0       | 2/0       | 3/0       | 3/0    |  |
| 200  | 2  | 1    | 1/0      | 2/0       | 3/0       | 4/0       | 4/0    |  |
| 250  | 1  | 1/0  | 2/0      | 3/0       | 4/0       |           |        |  |
| 300  | 1/0  | 2/0  | 3/0      | 4/0       |           |           |        |  |
| 350  | 1/0  | 3/0  | 4/0      |           |           |           |        |  |
| 400  | 2/0  | 3/0  |          |           |           |           |        |  |
| 450  | 2/0  | 4/0  |          |           |           |           |        |  |
| 500  | 3/0  | 4/0  |          |           |           |           |        |  |
| 550  | 3/0  | 4/0  |          |           |           |           |        |  |
| 600  | 4/0  |      | REQUIRED | CABLE SIZ | ZES SHOWN | IN AWG NU | JMBERS |  |

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.

Canadian Standard Association



