# 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 SIZE	CONDUCTOR Strand	NOMINAL O.D.		APPROX. 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



