

Super Vu-Tron® Welding Cable

90°C 600 Volt UL/CSA RHH/RHW

Product Construction:

Conductor:

- 6 AWG. through 4/0 AWG. fully annealed stranded bare copper per. ASTM B-172 Class M

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 -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

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

Per Standards: ICEA S-19-81NEMA 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®.



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

CATALOG NUMBER	AWG. SIZE	CONDUCTOR STRAND	NOMINAL O.D.		APPROX. NET WT. LBS/M ⁽⁶⁾	STD. CTN.
			INCHES	mm		
01768	6	660/34	0.370	9.40	125	250'
01767	4	1045/34	0.415	10.54	191	250'
01766	2	1666/34	0.475	12.07	259	250'
01765	1	2090/34	0.530	13.46	331	250'
01764	1/0†	2640/34	0.575	14.61	401	250'
01763	2/0†	3300/34	0.630	16.00	511	250'
01762	3/0†	4180/34	0.700	17.78	615	250'
01761	4/0†	5225/34	0.800	20.32	844	250'

® Actual shipping weight may vary.
† Type RHH/RHW - 600V for CT use.

WELDING CABLE AMPACITIES SINGLE CONDUCTOR

Required Cable Sizes: For Welding Cable Application

AMPS	length in feet for total circuit for secondary voltages only – do not use this table for 600 Volt in-line applications						
	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 SIZES SHOWN IN AWG NUMBERS

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 that indicated without overheating the cable as the ambient temperature will generally be substantially lower than 40°C.

