Carolprene® 105°C Welding Cable 600 Volt



NOW W



CAROLPRENE® 105°C WELDING CABLE - 600 VOLT - CLASS K - 30 AWG STRANDING APPROX. NOMINAL O.D. CATALOG AWG OR CONDUCTOR NET WT. STD. NUMBER STRAND INCHES LBS/M'(S) CTN. kcmil mm 01778 6 259/30 0.320 8.13 135 250' 01777 4 406/30 0.375 9.53 172 250' 01776 2 646/30 0.465 11.81 260 250' 01775 1 812/30 0.495 12.57 317 250' 01774 1/0 1025/30 0.560 14.22 400 250' 01773 1274/30 487 2/0 0.615 15.62 250' 01772 3/0 0.670 17.02 1613/30 605 250' 01771 4/0 2029/30 0.750 19.05 827 250' 99142* 250 kcmil 2496/30 0.830 21.08 976 250' 99432* 350 kcmil 0.950 24.13 1338 250' 3441/30 99202* 5054/30 1.200 30.48 1995 250' 500 kcmil

^(S) Actual shipping weight may vary.

* Non-stock item; minimum quantity required

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 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 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.



Product Construction:

Conductor:

 6 AWG through 500 kcmil fully annealed stranded bare copper Class K

Jacket:

- Premium-grade 105°C EPDM, black or red
- Temperature range: -50°C to +105°C

Jacket Marking:

• CAROLPRENE® (SIZE) 105°C WELDING CABLE 600 VOLT MADE IN USA (TRU-MARK SEQUENTIAL FOOTAGE)

Applications:

- Secondary voltage resistance welding leads
- Power supply applications not exceeding 600 volts AC

Features:

- Good flexibility
- Abrasion-resistant
- Good color retention • TRU-Mark® sequential footage marking

Packaging:

- 250' (76.2 m), 500' (152.4 m), and 1000' (304.8 m) reels
- MCM sizes cut to length
- Other put-ups available on special order
- Industry Approvals:
- RoHS Compliant

Suggested Ampacities For 600 Volt In-Line Applications

AWG OR kcmil	AMPERES	AWG	AMPERES
500 kcmil	695	1/0	190
350 kcmil	552	1	160
250 kcmil	445	2	140
4/0	310	4	100
3/0	265	6	75
2/0	223		

Ampacities for portable cable, continuous-duty (ambient temperature of 40°C).

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

Ordering Part Number Example 01771.38.03

4/0 500' put-up in red .03 for red jacket

