## Carolprene® 105°C Welding Cable

600 Volt





#### CAROLPRENE® 105°C WELDING CABLE - 600 VOLT - CLASS K - 30 AWG STRANDING

CATALOG	AWG OR kcmil	CONDUCTOR STRAND	NOMIN	AL O.D.	APPROX. NET WT. LBS/M' <sup>(S)</sup>	STD. CTN.
NUMBER			INCHES	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	2/0	1274/30	0.615	15.62	487	250'
01772	3/0	1613/30	0.670	17.02	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	3441/30	0.950	24.13	1338	250'
99202*	500 kcmil	5054/30	1.200	30.48	1995	250'

<sup>&</sup>lt;sup>(S)</sup> Actual shipping weight may vary.

# 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		REQUIRE	CABLE SI	ZES SHOW	N 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  $60^{\circ}$ C ( $140^{\circ}$ F), an ambient temperature of  $40^{\circ}$ C ( $104^{\circ}$ 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  $40^{\circ}$ C.

#### **Product Construction:**

#### Conductor:

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

#### lacket:

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

#### Jacket Marking:

- · Print type: Inkjet
- · CAROLPRENE® (SIZE) 105°C WELDING CABLE 600 VOLT ORIGIN USA

#### Applications:

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

#### Features:

- Good flexibility
- · Abrasion-resistant
- · Good color retention

#### 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









<sup>\*</sup> Non-stock item; minimum quantity required.