

Carolprene® 105°C Welding Cable

105°C, 600 Volt, MSHA Approved



CAROLPRENE® 105°C WELDING CABLE – 600 VOLT – 30 AWG STRANDING

CATALOG NUMBER	AWG SIZE	NOMINAL STRAND	NOMINAL O.D.		APPROX. NET WT. LBS/M ⁽⁵⁾	STD. CTN.
			INCHES	mm		
01758*	6	259/30	0.430	10.92	152	1000'
01757*	4	418/30	0.475	12.07	215	1000'
01756*	2	646/30	0.540	13.72	296	1000'
01755*	1	836/30	0.580	14.73	360	1000'
01754*	1/0	1032/30	0.615	15.62	424	1000'
01753*	2/0	1290/30	0.655	16.64	513	1000'
01752*	3/0	1672/30	0.720	18.29	644	1000'
01751*	4/0	2066/30	0.780	19.81	824	1000'

* Non-stock item; minimum quantity required.

⁽⁵⁾ 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						

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:

Conductors:

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

Jacket:

- Carolprene® 105°C, black
- Temperature Range: -50°C to +105°C

Jacket Marking:

- CAROLPRENE (SIZE) AWG 105C WELDING CABLE 600 VOLT P-07-KA1000015-MSHA MADE IN USA

Applications:

- Secondary voltage resistance welding leads in heavy duty or mining applications
- 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:

- Water-resistant
- Sunlight-resistant
- Designed to withstand severe environmental conditions
- Withstands exposure to oil, acids, alkalies, heat, flame, moisture and chemicals
- Meets or exceeds flame test requirements of MSHA
- TRU-Mark® marking system and indent printed MSHA number

Industry Approvals:

- MSHA Approved
- RoHS Compliant

Packaging:

- 250' (76.2 m), 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®.



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