

ARC WELDING CABLE

90°C 600 VOLT

Construction

Conductor:

- Flexible, Class K stranded bare copper.

Separator:

- Paper.

Jacket:

- 90°C EPDM Black.

Temperature:

- -40°C to +90°C.

Voltage Rating:

- 600 Volts. As a welding cable . . . for welding cable applications only.

Description:

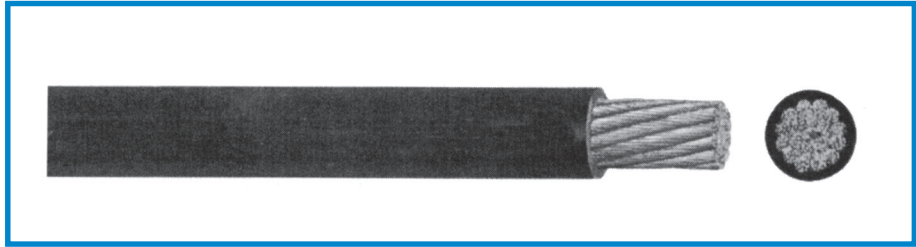
- 600 volt welding cable features an integral insulation and jacket rated 90°C. Class K stranding (30 AWG) provides the flexibility desired for welding applications. The integral insulation and jacket assures a superior tough cable which is resistant to abrasion, tearing, oils, gasoline and greases. This cable is intended for use as resistance welding leads, connecting electrode holder to welder, and should be used only with secondary voltage typical of welding equipment.

Features:

- Flexible conductors - Class K stranding.
- CPE (thermoset mixture) insulation and jacket.
- Excellent resistance to abrasion and tearing.
- Oil resistant.
- Good color retention.

Practical Applications:

- For connections from electrode holder and clamp to arc welder, bus welding box or transformers. Also useful in applications where high flexibility is desired. Not suitable for in-line voltage use or other power applications. Improper use could be hazardous to personnel and equipment.



CUSTOM CATALOG NUMBER	SIZE	STRAND	NOMINAL O. D.	NOMINAL WEIGHT
	AWG/MCM		INCHES	LBS/MFT
9350	6	259/30	0.380	140
9351	4	374/30	0.400	180
9353	2	625/30	0.470	265
9354	1	778/30	0.500	320
9355	1/0	990/30	0.565	405
9356	2/0	1248/30	0.620	485
9357	3/0	1586/30	0.675	620
9358	4/0	2054/30	0.750	790
9359	250MCM	2496/30	0.830	965
9361	350MCM	3432/30	0.960	1310
9362	500MCM	5054/30	1.200	1960

NOTE: Welding Cable is also available with extra flexible copper stranding (#34 AWG Strand) on special request. Other types of insulation may be supplied.

WELDING CABLE AMPACITIES - SINGLE CONDUCTOR

Regular Cable Sizes: For Welding Cable Application

Length in feet for total circuit for secondary voltages only - do not use this table for 600 volt 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 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.

For 600 Volt In-Line: Ampacities for portable cable, continuous duty. (Ambient Temperature of 40°C).

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

Suggested Ampacities: For 600 Volt In-Line Applications

GA	AMPERES	GA	AMPERES
500 MCM	695	1/0	190
350 MCM	552	1	160
250 MCM	445	2	140
4/0	310	4	100
3/0	265	6	75
2/0	223	—	—

Custom Cable Corp.



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