

PORTABLE CORD



- ▶ **Welding Cable**
- ▶ **Class K**
- ▶ **30 AWG Stranding**
- ▶ **600V**

PRODUCT CONSTRUCTION

Conductor: 6 AWG through 500 kcmil fully annealed, stranded, bare copper, Class K.
Jacket: Premium-grade 90°C EPDM, black or red. Temperature range: -40°C to +90°C.

APPLICATIONS

For use with secondary voltage resistance welding leads and power supply applications not exceeding 600V AC.

FEATURES

Good flexibility, abrasion resistance, good color retention.

COMPLIANCES

Industry: RoHS compliant

USAWC Part #	Size (AWG)	Cond. Strand	Nominal O.D.		Approx. Net Wt.* (lbs./1000 ft.)	Standard Carton
			(Inches)	(mm)		
Class K Welding Cable – 600V – 30 AWG Stranding						
USA6-01WELD	6	259/30	0.380	9.65	135	250'
USA4-01WELD	4	406/30	0.400	10.16	172	250'
USA2-01WELD	2	646/30	0.465	11.81	260	250'
USA1-01WELD	1	812/30	0.495	12.57	317	250'
USA1/0-01WELD	1/0	1025/30	0.560	14.22	400	250'
USA2/0-01WELD	2/0	1274/30	0.615	15.62	487	250'
USA3/0-01WELD	3/0	1613/30	0.670	17.02	605	250'
USA4/0-01WELD	4/0	2029/30	0.750	19.05	827	250'
USA250-01WELD	250 kcmil	2496/30	0.830	21.08	976	250'
USA350-01WELD	350 kcmil	3441/30	0.960	24.38	1338	250'
USA500-01WELD	500 kcmil	5054/30	1.200	30.48	1995	250'

*Actual shipping weight may vary.

Welding Cable Ampacities Single Conductor

Required Cable Sizes: For Welding Cable Application

Amps	Length is in feet for total circuit for secondary voltages only – do not use this table for 600V inline 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 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 2 AWG cable to approximately 23% for the 3/0 AWG cable, and higher for smaller sizes. The sizes of cables generally used range from 2 AWG to 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.

Suggested Ampacities for 600V Inline 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®.