

# Arc Welding Cable Commercial Grade



Conductors Flexible stranded bare copper per ASTM B 172 Class K. Separator Paper tape separator between conductor and insulation, Ethylene-propylene rubber (EPR insulation) 600v.

**Specifications and Compliance**  
Class 45, 105°C, Table 50.55 of UL 1581

RW Item #	Conductor		Insulation (inches)	Nominal O.D. (inches)	Total Weight (lbs/km)
	AWG Size	Stranding			
WELD06NEO	6	253/30AWG	.060	.315	452
WELD04NEO	4	403/30AWG	.060	.358	630
WELD02NEO	2	636/30AWG	.060	.422	958
WELD01NEO	1	798/30AWG	.080	.492	1,141
WELD001NEO	1/0	1016/30AWG	.080	.547	1,443
WELD002NEO	2/0	1261/30AWG	.080	.591	1,800
WELD003NEO	3/0	1590/30AWG	.080	.657	2,178
WELD004NEO	4/0	2007/30AWG	.080	.705	2,743

## Welding Cable Amperage Chart for Welding Applications

Length in feet for total circuit for secondary voltages only (do not use this table for 600Volt 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 Show in Gauge Numbers					

For reference only. Due to variables within welding applications, it is recommended the user consult an electrical engineer for a particular welding application.

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\*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.2AWG cable to approximately 23% for the No. 3/0AWG cable, and higher for the smaller sizes. The sizes of cables generally used range from No.2AWG to No.3/0AWG. 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.

## Colour Coding

- Black jacket, Red and Green in some sizes

## Features

- Excellent flexibility for long flex life
- Chemical, grease, oil, and acid resistant
- Weather, ozone, and sunlight resistant jacket
- Rated and flexible at -40°C / Heat resistant at 105°C
- 600v rated

## Application

- Secondary voltage for welding leads; and batteries.

## Special factory option

- Conductors option - Class M (34 AWG) stranding
- Jacket option - Neoprene
- CSA Option - 1523058 (LR 103932) (for 8 AWG-300 kcmil); Oil Resistant (Optional)

All dimensions are nominal and are subject to normal manufacturing tolerance. Specifications are subject to change without notice.