

WELDING CABLE

600 Volts. Rated for -55°C to 105°C. Sizes 6 AWG - 500 MCM
Good Flexibility. Oil Resistant.
Resists Compression, Cuts and Abrasion.
Black EPDM Jacket, RoHS Compliant .



APPLICATIONS

Southwire Welding Cables are used for Secondary voltage resistance welding leads. Power supply applications not exceeding 600 volts AC.

SPECIFICATIONS

- ASTM B-3
- ASTM B-172
- RoHS Compliant
- ICEA S-75-381

CONSTRUCTION

Southwire Welding Cables are manufactured using annealed rope-stranded bare copper conductor as per ICEA S-75-381. A paper tape separates the conductor from the insulation to facilitate stripping. A 105° EPDM black jacket is extruded onto the cable.

ALTERNATE CONSTRUCTION

Also available with a red jacket. May be subject to minimum order.

Black non-UL Welding Cable

SUGGESTED AMPACITIES: FOR 600 VOLT IN-LINE APPLICATIONS			
AWG	AMPERES	AWG	AMPERES
6	115	3/0	380
4	150	4/0	440
2	205	250 MCM	495
1	240	350 MCM	680
1/0	285	500 MCM	720
2/0	325		

Ampacities for portable cable, continuous-duty (Ambient Temperature of 40° C).
May not be suitable for all installations per National Electrical Code® .

Black non-UL Welding Cable

WEIGHTS, MEASUREMENTS AND PACKAGING

SIZE (AWG)	CONDUCTOR STRAND (#/AWG)	NOMINAL OVERALL DIAMETER		APPROX. NET WEIGHT LBS/M**	AMPS	PART NUMBER
		In.	mm			
6	273 x 30	0.320	8.128	125	115	500'
4	427 x 30	0.375	9.53	182	150	500'
2	651 x 30	0.440	11.12	271	205	500'
1	840 x 30	0.505	12.87	360	240	500'
1/0	1044 x 30	0.570	12.82	444	285	500'
2/0	1308 x 30	0.605	15.37	535	325	500'
3/0	1653 x 30	0.670	17.02	667	380	500'
4/0	2071 x 30	0.720	18.29	809	440	500'
250 MCM	2516 x 30	0.860	21.84	1048	495	500'
350 MCM	3478 x 30	0.905	22.99	1396	625	500'
500 MCM	5002 x 30	1.110	28.19	1973	765	500'

* Actual shipping weight may vary.

* 250', 1000' and 2500' reels also available.

* Ampacity based on 105°C conductor temperature and 30°C Ambient.

Black non-UL Welding Cable

WELDING CABLE AMPACITIES SINGLE CONDUCTOR REQUIRED CABLE SIZES: FOR WELDING CABLE APPLICATION							
AMPS	LENGTH IN FEET FOR TOTAL CIRCUIT FOR SECONDARY VOLTAGES ONLY (DO NOT USE THIS TABLE FOR 600 VOLT IN-LING APPLICATIONS)						
	50'	100'	150'	200'	250'	300'	350'
100	4	2	1/0	2/0	3/0	4/0	4/0
150	4	1/0	2/0	4/0			
200	2	2/0	4/0				
250	1	3/0					
300	1/0	4/0					
350	2/0	4/0					
400	3/0						
450	3/0						
500	4/0						
550	4/0						
600							

Distances shown are half the length of cable required. For total cable length of welding lead and ground lead, double distance shown.
4 volts maximum drop. Nominal DC resistance @ 25 C per ICEA S-19-81 Table 7.5.1