

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

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| 400 | 3/0 | | | | | | |
| 450 | 3/0 | | | | | | |
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