

# FLEX-A-PRENE®

## INDUSTRIAL WELDING CABLE



### Applications

Direct's Flex-A-Prene® is the industry's most recognized brand name of industrial welding cable. Highly durable and versatile, the cable is designed for use in stingers/whips, leads, and ground clamp welding assemblies as well as battery applications such as chargers and wire harnesses. Flex-A-Prene is SAE J1127 (#6 to 250 MCM) and RoHS compliant and manufactured in the USA.

### Construction

- Rope-lay, bunch-stranded 30 AWG SAE copper conductor
- Wrapped paper separator
- Jacketed with proprietary LSHF EPDM compound

See reverse for construction details and technical specifications

| FLEX-A-PRENE   INDUSTRIAL WELDING CABLE |                                |                              |      |                                    |       |                    |
|---|--------------------------------|------------------------------|------|------------------------------------|-------|--------------------|
| AWG SIZE <sup>1</sup>                   | # COND STRAND<br>/ DIAM(OR) GA | NOMINAL INSULATION THICKNESS |      | NOMINAL OUTSIDE DIAMETER (+JACKET) |       | APPROX LBS PER 1K' |
|   |                                | INCHES                       | MM   | INCHES                             | MM    |                    |
| #8                                      | 182 / 30                       | .060                         | 1.52 | .280                               | 7.11  | 80                 |
| #6                                      | 260 / 30                       | .060                         | 1.52 | .308                               | 7.82  | 108                |
| #4                                      | 364 / 30                       | .060                         | 1.52 | .343                               | 8.71  | 147                |
| #2                                      | 624 / 30                       | .060                         | 1.52 | .428                               | 10.87 | 238                |
| #1                                      | 767 / 30                       | .080                         | 2.03 | .488                               | 12.40 | 299                |
| 1 / 0                                   | 975 / 30                       | .080                         | 2.03 | .533                               | 13.54 | 369                |
| 2 / 0                                   | 1,196 / 30                     | .080                         | 2.03 | .568                               | 14.43 | 443                |
| 3 / 0                                   | 1,547 / 30                     | .080                         | 2.03 | .618                               | 15.70 | 556                |
| 4 / 0                                   | 1,950 / 30                     | .080                         | 2.03 | .688                               | 17.48 | 696                |
| 250 MCM                                 | 2,432 / 30                     | .095                         | 2.41 | .806                               | 20.47 | 900                |
| 350 MCM                                 | 3,330 / 30                     | .095                         | 2.41 | .908                               | 23.06 | 1,203              |
| 500 MCM                                 | 4,847 / 30                     | .095                         | 2.41 | 1.054                              | 26.77 | 1,884              |
| 4/0 HD                                  | 1,950 / 30                     | .167                         | 4.24 | .860                               | 21.84 | 810                |

<sup>1</sup>SAE J1127 standard does not apply to #8 AWG, 350 MCM, 500 MCM, and 4/0 HD.

All data and specifications contained herein are current and subject to change without notification. All values are nominal and/or approximate and may vary. All styles and standards dependent on conductor size.



# FLEX-A-PRENE<sup>®</sup> INDUSTRIAL WELDING CABLE

## TECHNICAL SPECIFICATIONS

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### Construction

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|---------------------|--|
| Conductors          | <ul style="list-style-type: none"><li>• Rope-lay, bunch-stranded 30 AWG SAE copper conductor</li></ul>   |
| Voltage Rating      | <ul style="list-style-type: none"><li>• 600 V</li></ul>  |
| Insulation & Jacket | <ul style="list-style-type: none"><li>• Wrapped paper separator</li><li>• Jacketed with proprietary low-smoke, halogen-free EPDM compound</li><li>• Resistant to abrasion, battery acid, diesel fuel, engine coolant, engine oil, ethanol, extreme temperatures, flame, gasoline, power-steering fluid, and transmission fluid</li></ul> |
| Temperature Range   | <ul style="list-style-type: none"><li>• -50°C (-58°F) to 105°C (221°F)</li></ul>   |
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### Standards & Certifications

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|--------------------|---|
| Industry Approvals | <ul style="list-style-type: none"><li>• SAE J1127 Compliant (#6 to 250 MCM)</li><li>• NEC Article 630 (Electric Welders)</li><li>• Suitable for battery use per UL 558 and 583</li><li>• REACH, RoHS, CMRT, and Prop 65 Compliant</li></ul> |
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### Standard Stock

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|-------------------|--|
| Available Lengths | <ul style="list-style-type: none"><li>• Coils/Assemblies at 25', 50', 100', and 250'</li><li>• Reels at 500', 1,000', and 2,500'</li><li>• Custom lengths available upon request</li></ul> |
|-------------------|--|
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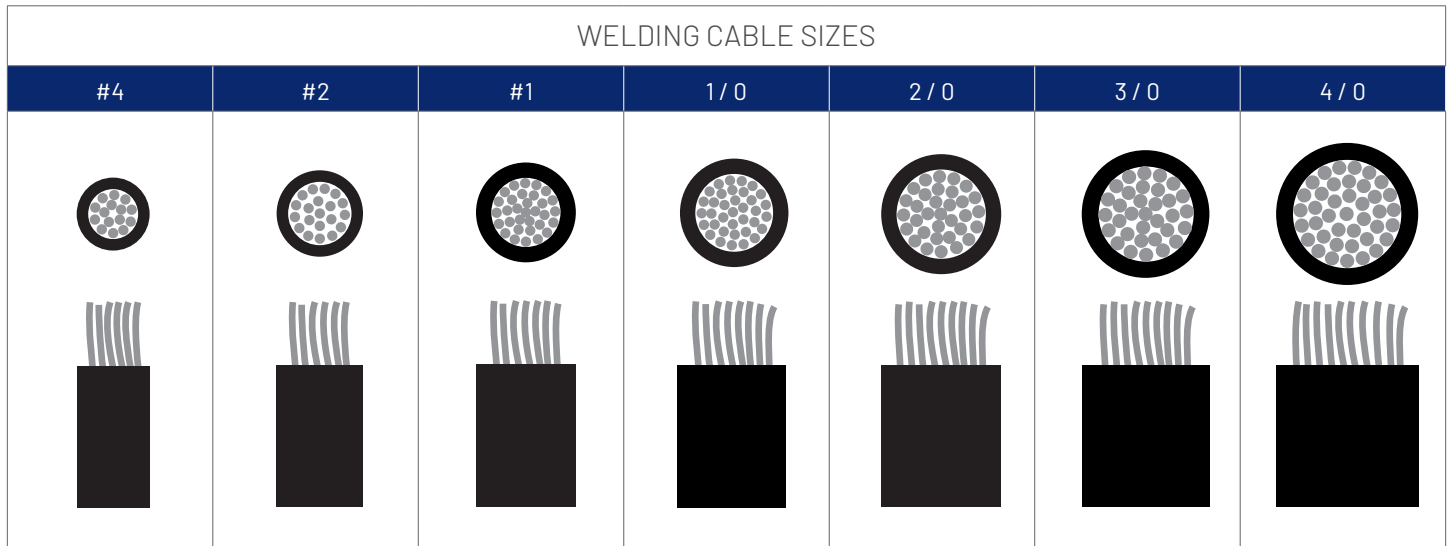
### Customization

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|---------------------|--|
| Jacket Colors       | <ul style="list-style-type: none"><li>• ● Black (standard) ● Blue ● Green ● Red ● Yellow ● Orange</li><li>• Custom colors available upon request</li></ul> |
| Sample Print Legend | <ul style="list-style-type: none"><li>• {AWG SIZE} FLEX-A-PRENE WELDING CABLE 600V -50°C +105°C * MADE IN USA * RoHS * SAE J1127</li></ul>                 |
| Marking Options     | <ul style="list-style-type: none"><li>• Quick Print<sup>®</sup>; Surface Print; Indent Print; Logo/Icon; Sequential Marking</li></ul>                      |

# WELDING CABLE

## SIZES & SUGGESTED AMPACITY



NOTE 1: Welding cable sizes are drawn to scale.

SUGGESTED IN-LINE AMPACITY FOR WELDING CABLE

| AMPS | 50' | 75'     | 100'    | 125'    | 150'    | 175'    | 200'    | 225'    | 250'    | 275'    | 300'    | 325'    | 350'    |
|------|-----|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 100  | #4  | #2      | #2      | #1      | #1      | 1/0     | 2/0     | 2/0     | 3/0     | 3/0     | 3/0     | 4/0     | 4/0     |
| 150  | #2  | #2      | #1      | 1/0     | 2/0     | 3/0     | 3/0     | 4/0     | 4/0     | 250 MCM | 250 MCM | 250 MCM | 350 MCM |
| 200  | #2  | #1      | 2/0     | 3/0     | 3/0     | 4/0     | 4/0     | 250 MCM | 350 MCM | 350 MCM | 350 MCM | 350 MCM |         |
| 250  | #1  | 1/0     | 3/0     | 4/0     | 4/0     | 250 MCM | 350 MCM | 350 MCM | 350 MCM |         |         |         |         |
| 300  | #1  | 2/0     | 3/0     | 4/0     | 250 MCM | 350 MCM | 350 MCM | 350 MCM |         |         |         |         |         |
| 350  | 1/0 | 3/0     | 4/0     | 250 MCM | 350 MCM | 350 MCM |         |         |         |         |         |         |         |
| 400  | 2/0 | 3/0     | 250 MCM | 350 MCM | 350 MCM |         |         |         |         |         |         |         |         |
| 450  | 2/0 | 4/0     | 250 MCM | 350 MCM | 350 MCM |         |         |         |         |         |         |         |         |
| 500  | 3/0 | 4/0     | 350 MCM | 350 MCM |         |         |         |         |         |         |         |         |         |
| 550  | 4/0 | 250 MCM | 350 MCM |         |         |         |         |         |         |         |         |         |         |
| 600  | 4/0 | 250 MCM | 350 MCM |         |         |         |         |         |         |         |         |         |         |

NOTE 2: For reference only. Due to variables within welding applications, it is recommended the user consult an electrical engineer for a particular welding application.

NOTE 3: Distance from power source (per lead).

### Customization

#### Jacket Colors

- Black (standard) ● Blue ● Green ● Red ● Yellow ● Orange
- Custom colors available upon request

#### Marking Options

- Quick Print®; Surface Print; Indent Print; Logo/Icon; Sequential Marking

All data and specifications contained herein are current and subject to change without notification. All values are nominal and/or approximate and may vary. All styles and standards dependent on conductor size.

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