

# 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 / 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

---

### Construction

---

- |                     |  |
|---------------------|--|
| 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>   |
- 

### Standards & Certifications

---

- |                    |   |
|--------------------|---|
| 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> |
|--------------------|---|
- 

### Standard Stock

---

- |                   |  |
|-------------------|--|
| 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> |
|-------------------|--|
- 

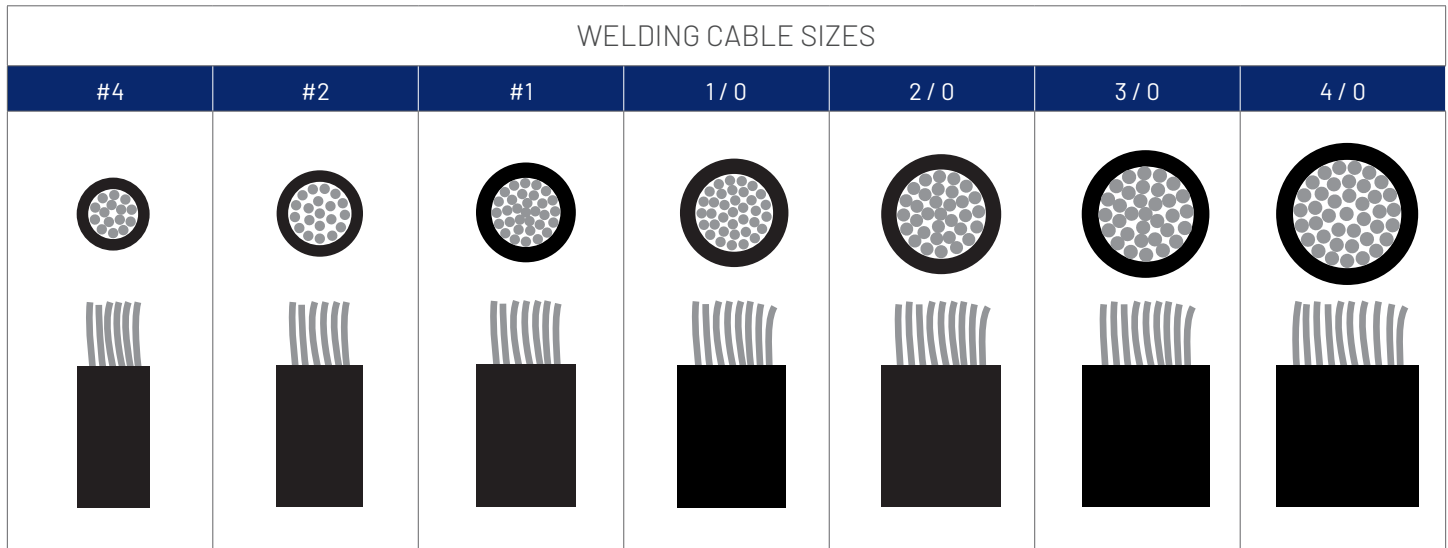
### Customization

---

- |                     |  |
|---------------------|--|
| 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.

[DIRECTWIRE.COM](http://DIRECTWIRE.COM)