

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 99.99% oxygen-free electronic (OFE) high-purity copper conductor
- Wrapped paper separator
- Jacketed with proprietary LSHF EPDM compound

[See reverse for construction details and technical specifications](#)

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AWG SIZE ¹	# 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	.270	6.85	80
#6	260 / 30	.060	1.52	.305	7.74	110
#4	364 / 30	.065	1.65	.333	8.45	145
#2	624 / 30	.065	1.65	.415	10.54	235
#1	767 / 30	.065	1.65	.443	11.25	282
1 / 0	975 / 30	.065	1.65	.488	12.39	351
2 / 0	1,196 / 30	.065	1.65	.526	13.36	423
3 / 0	1,547 / 30	.078	1.98	.609	15.46	553
4 / 0	1,950 / 30	.078	1.98	.674	17.11	685
250 MCM	2,432 / 30	.078	1.98	.764	19.40	846
350 MCM	3,330 / 30	.095	2.41	.908	23.06	1,172
500 MCM	4,847 / 30	.095	2.41	1.054	26.77	1,663

¹SAE J1127 standard does not apply to #8 AWG, 350 MCM, and 500 MCM.

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[®] INDUSTRIAL WELDING CABLE

TECHNICAL SPECIFICATIONS

Construction

- | | |
|---------------------|--|
| Conductors | <ul style="list-style-type: none">• Rope-lay, bunch-stranded 30 AWG SAE 99.99% oxygen-free electronic (OFE) high-purity copper conductor |
| Voltage Rating | <ul style="list-style-type: none">• 600 V |
| Insulation & Jacket | <ul style="list-style-type: none">• Wrapped paper separator• Jacketed with proprietary low-smoke, halogen-free EPDM compound• Resistant to abrasion, battery acid, diesel fuel, engine coolant, engine oil, ethanol, extreme temperatures, flame, gasoline, power-steering fluid, and transmission fluid |
| Temperature Range | <ul style="list-style-type: none">• -50°C (-58°F) to 105°C (221°F) |
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Standards & Certifications

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

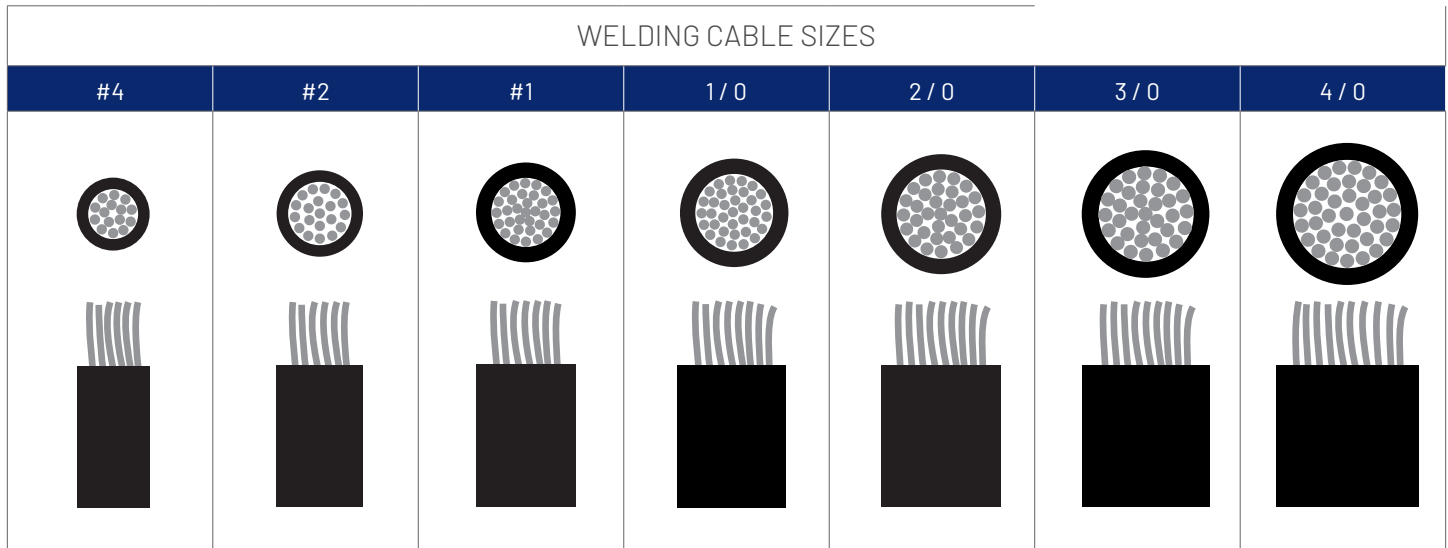
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|-------------------|---|
| Available Lengths | <ul style="list-style-type: none">• Coils/Assemblies at 25', 50', and 100'• Reels at 250', 500', 1,000', 2,500' and 5,000'• Custom lengths available upon request |
|-------------------|---|
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Customization

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

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

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