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

FLEX-A-PRENE INDUSTRIAL WELDING CABLE										
AWG SIZE1	# COND STRAND		INAL I THICKNESS	NOMINAL DIAMETER	APPROX LBS PER 1K'					
	/ DIAM (OR) GA	INCHES	MM	INCHES	ММ					
#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				

 $^1 \text{SAE}$ 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.



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TECHNICAL SPECIFICATIONS

Construction

Standard Stock	REACH, RoHS, CMRT, and Prop 65 Compliant
	Suitable for battery use per UL 558 and 583
	NEC Article 630 (Electric Welders)
Industry Approvals	• SAE J1127 Compliant (#6 to 250 MCM)
Standards & Certi	fications
Temperature Range	 -50°C (-58°F) to 105°C (221°F)
	extreme temperatures, flame, gasoline, power-steering fluid, and transmission fluid
	 Jacketed with proprietary low-smoke, halogen-free EPDM compound Resistant to abrasion, battery acid, diesel fuel, engine coolant, engine oil, ethanol,
Insulation & Jacket	Wrapped paper separator looketed with proprietory low empke holegon free EDDM compound
Voltage Rating	• 600 V
Conductors	 Rope-lay, bunch-stranded 30 AWG SAE 99.99% oxygen-free electronic (OFE) high-purity copper conductor

Available Lengths • Coils/Assemblies at 25′, 50′, and 100′

- Reels at 250', 500', 1,000', 2,500' and 5,000'
- Custom lengths available upon request

Customization

Jacket Colors	 Black (standard) Blue Green Red Yellow Orange Custom colors available upon request
Sample Print Legend	 {AWG SIZE} FLEX-A-PRENE WELDING CABLE 600V -50°C +105°C * MADE IN USA * RoHS * SAE J1127
Marking Options	 Quick Print[®]; Surface Print; Indent Print; Logo/Icon; Sequential Marking



WELDING CABLE SIZES & SUGGESTED AMPACITY



WELDING CABLE SIZES										
#4	#2	#1	1/0	2/0	3/0	4 / 0				

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 мсм	250 мсм	250 мсм	350 мсм
200	#2	#1	2/0	3/0	3/0	4/0	4/0	250 мсм	350 мсм	350 мсм	350 мсм	350 мсм	
250	#1	1/0	3/0	4/0	4/0	250 мсм	350 мсм	350 мсм	350 мсм				
300	#1	2/0	3/0	4/0	250 мсм	350 мсм	350 мсм	350 мсм					
350	1/0	3/0	4/0	250 мсм	350 мсм	350 мсм							
400	2/0	3/0	250 мсм	350 мсм	350 мсм								
450	2/0	4/0	250 мсм	350 мсм	350 мсм								
500	3/0	4/0	350 мсм	350 мсм									
550	4 / 0	250 мсм	350 мсм										
600	4 / 0	250 мсм	350 мсм										

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).



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