

ULTRA-FLEX®

FLEXIBLE WELDING CABLE



Applications

Direct's Ultra-Flex® commercial welding cable has been completely re-engineered with improved stranding and jacketing for superior flexibility and ease-of-movement within high-flex applications, including pipelines, robotics, and constrained areas. Ultra-Flex is SAE J1127 and RoHS compliant, and manufactured in the USA.

Construction

- Rope-lay, bunch-stranded, ultra flexible 36 AWG SAE copper conductor
 - Jacketed with TPE compound
 - Signature vibrant orange with deep black striping
- See reverse for construction details and technical specifications

ULTRA-FLEX FLEXIBLE WELDING CABLE						
AWG SIZE	STRANDING / DIAM (OR) GA	INSULATION THICKNESS (NOM)		OUTSIDE DIAMETER (NOM)		APPROX LBS PER 1K'
		INCHES	MM	INCHES	MM	
#2	2,548 / .005	.060	1.52	.428	10.87	240
#1	3,136 / .005	.080	2.03	.498	12.65	311
1 / 0	3,969 / .005	.080	2.03	.533	13.54	383
2 / 0	4,949 / .005	.080	2.03	.588	14.94	464

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										

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

All data and specifications contained herein are current and subject to change without notification. All values are nominal and/or approximate and may vary.



ULTRA-FLEX[®] FLEXIBLE WELDING CABLE

TECHNICAL SPECIFICATIONS

Construction

- | | |
|---------------------|---|
| Conductors | <ul style="list-style-type: none">• Rope-lay, bunch-stranded, ultra flexible 36 AWG SAE copper conductor |
| Voltage Rating | <ul style="list-style-type: none">• 600 V |
| Insulation & Jacket | <ul style="list-style-type: none">• Jacketed with TPE compound• Resistant to 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">• NEC Article 630 (Electric Welders)• SAE J1127 Compliant• RoHS Compliant |
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Standard Stock

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

- | | |
|-----------------------|--|
| Jacket Colors | <ul style="list-style-type: none">•  Vibrant orange with black stripe |
| Standard Print Legend | <ul style="list-style-type: none">• {AWG} ULTRA-FLEX 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 |