

# ULTRA-FLEX®

## FLEXIBLE WELDING CABLE CLASS M



### Applications

Direct’s Ultra-Flex® flexible class M 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 34 AWG SAE 99.99% oxygen-free electronic (OFE) high-purity 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	INSULATION THICKNESS (NOM)		OUTSIDE DIAMETER (NOM)		APPROX LBS PER 1K'
	/ DIAM (OR) GA	INCHES	MM	INCHES	MM	
#2	1,653 / 34 GA	.065	1.65	.430	10.92	241
#1	1,995 / 34 GA	.065	1.65	.462	11.74	286
1 / 0	2,646 / 34 GA	.065	1.65	.550	13.97	374
2 / 0	3,087 / 34 GA	.065	1.65	.556	14.12	428

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. All styles and standards dependent on conductor size.



# ULTRA-FLEX<sup>®</sup> FLEXIBLE WELDING CABLE

## TECHNICAL SPECIFICATIONS

### Construction

Conductors	<ul style="list-style-type: none"><li>Rope-lay, bunch-stranded, ultra flexible 34 AWG SAE 99.99% oxygen-free electronic (OFE) high-purity 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>Jacketed with TPE compound</li><li>Resistant to 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>NEC Article 630 (Electric Welders)</li><li>SAE J1127 Compliant</li><li>RoHS Compliant</li></ul>
--------------------	---

### Standard Stock

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

### Customization

Jacket Colors	<ul style="list-style-type: none"><li> Vibrant Orange with Black stripe</li></ul>
Sample Print Legend	<ul style="list-style-type: none"><li>{AWG} ULTRA-FLEX 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>

