

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 copper conductor
- Jacketed with TPE compound
- Signature vibrant orange with deep black striping

See reverse for construction details and technical specifications

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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[®] FLEXIBLE WELDING CABLE

TECHNICAL SPECIFICATIONS

Construction

- | | |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Conductors | <ul style="list-style-type: none">• Rope-lay, bunch-stranded, ultra flexible 34 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', and 100'• Reels at 250', 500', and 1,000'• Custom lengths available upon request |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
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Customization

- | | |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Jacket Colors | <ul style="list-style-type: none">•  Vibrant Orange with Black stripe |
| Sample 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 |