



WELDING CABLES

ARC Star™ offers a variety of welding cable assemblies in sizes 4, 2, 1, 1/0, 2/0, 3/0, and 4/0. We have leads, grounds, and extensions in any length and configuration. We also offer cut cable in multiple lengths without ends. We can supply ground clamps, electrode holders, lugs, and cable connectors with our ARC Star™ brands on the ends or OEM's such as, Tweco, or for any of the assemblies you may need.

Features

- Premium USA made welding cable
- High strength tear-resistant flexible EPDM jacket
- Excellent resistance to cuts, abrasion, slag and impact
- Superior flexibility, even at cold temperatures to -50°C
- Resistant to heat, flame, solvents, water, grease, oil, weather and ozone
- Special stranded conductor for added flexibility and easy handling
- Sequentially marked; Class K stranding
- Available in custom cut sections fully assembled with ends
- Boxed cable kits optimized for shipping and display
- Private labeling available. MOQs and lead times will apply
- Only the highest quality cable accessories are used in our custom cable kits
- RoHS Compliant
- Lead-free
- Silicone-free
- Made in the USA

Applications

- Used as power feed leads from the welding power source unit to the electrodes for arc welders; NEC article 630 electric welders
- Highly flexible lead cable used on battery cable, and temporary or permanent lead cables
- For use in all welding applications requiring leads, grounds and stingers/whips.
- Manufacturing - Architectural and Structural Metals, Mining, Agricultural, Motor Vehicles, Aerospace, Shipbuilding
- Construction - Residential, Commercial, Bridges, Dams, Utilities
- Or any other industry where welders may work

Technical Specifications

Spark Tested for 600V

Voltage rating procedure incorporating the IPCEA-S-19-81 D.C. spark test.

AWG	Voltage (KV)
6 to 2	22.5
1 to 4/0	27.0

Separators: Paper separator for ease of stripability

Colors: Black, Blue, Red, Green, Orange, Pink, Yellow, White
Other colors available upon request

Packaging:

- Standard lengths: 250' and 500' reels; also available in 1,000' and 100 m reels
- Coiled, boxed, and shrink-wrapped package options for 25, 50, and 100 ft. lengths
- Custom lengths available upon request

Insulation: EDPM

Conductor: Annealed rope-stranded Class M, bare copper as per ASTM B3.34 AWG; Meets CMA requirements of ASTM B172

Operating Temperature Range: - 50°C to + 105°C (- 58°F to + 221°F)
ASTM D-4313 compliant

Usage Instructions

1. Determine cable size and length for application
2. Determine proper connector for cable
3. Strip and properly prepare cable tips
4. Select proper installing die tool with correct die in proper position on connector and activate tool or select proper installing dieless tool.
5. Crimp as directed by the manufacturer's instructions.
6. Properly secure connectors

Full Cable Reels

Item Number	Description	Color	Length
PRE4B250	#4 REEL WELDING CABLE	BLACK	250 FT
PRE4	#4 REEL WELDING CABLE	BLACK	500 FT
PRE2	#2 REEL WELDING CABLE	BLACK	500 FT
PRE2B250	#2 REEL WELDING CABLE	BLACK	250 FT
PRE1	#1 REEL WELDING CABLE	BLACK	500 FT
PRE1B250	#1 REEL WELDING CABLE	BLACK	250 FT
PRE10B250	#1/0 REEL WELDING CABLE	BLACK	250 FT
PRE10	#1/0 REEL WELDING CABLE	BLACK	500 FT
PRE10BLUE*	#1/0 ON WELDING CABLE	BLUE	500 FT
PRE10B1000	#1/0 REEL WELDING CABLE	BLACK	1000 FT
PRE20B250	#2/0 REEL WELDING CABLE	BLACK	250 FT
PRE20R250	#2/0 REEL WELDING CABLE	RED	250 FT
PRE20	#2/0 REEL WELDING CABLE	BLACK	500 FT
PRE20BLUE*	#2/0 REEL WELDING CABLE	BLUE	500 FT
PRE20G*	#2/0 REEL WELDING CABLE	GREEN	500 FT
PRE200*	#2/0 REEL WELDING CABLE	ORANGE	500 FT
PRE20P*	#2/0 REEL WELDING CABLE	PINK	500 FT
PRE20R	#2/0 REEL WELDING CABLE	RED	500 FT
PRE20B1000	#2/0 REEL WELDING CABLE	BLACK	1000 FT
PRE30B250	#3/0 REEL WELDING CABLE	BLACK	250 FT
PRE30	#3/0 REEL WELDING CABLE	BLACK	500 FT
PRE30BLUE*	#3/0 REEL WELDING CABLE	BLUE	500 FT
PRE30R	#3/0 REEL WELDING CABLE	RED	500FT
PRE30B1000	#3/0 REEL WELDING CABLE	BLACK	1000 FT
PRE40B250	#4/0 REEL WELDING CABLE	BLACK	250 FT
PRE40	#4/0 REEL WELDING CABLE	BLACK	500 FT
PRE40R	#4/0 REEL WELDING CABLE	RED	500 FT
PRE40B1000	#4/0 REEL WELDING CABLE	BLACK	1000 FT

*Custom cut lengths available with MOQ

Cable Sections No Attachments

Item Number	Description	Color	Length
BOX4S50PNE	#4 BOXED SECTION PRE4 NO ENDS	BLACK	50 FT
TEC4S60PNE	#4 SECTION PRE4 NO ENDS	BLACK	60 FT
BOX2S50PNE	#2 BOXED SECTION PRE2 NO ENDS	BLACK	50 FT
TEC2S50PNE	#2 SECTION PRE2 NO ENDS	BLACK	50 FT
TEC2S50PNER	#2 SECTION PRE2 NO ENDS	RED	50 FT
TEC2S100PNE	#2 SECTION PRE2 NO ENDS	BLACK	100 FT
TEC1S40PNE	#1 SECTION PRE1 NO ENDS	BLACK	40 FT
BOX1S50PNE	#1 BOXED SECTION PRE1 NO ENDS	BLACK	50 FT
TEC1S50PNE	#1 SECTION PRE1 NO ENDS	BLACK	50 FT

TEC1S100PNE	#1 SECTION PRE1 NO ENDS	BLACK	100 FT
TEC10S10PNE	#1/0 SECTION PRE10 NO ENDS	BLACK	10 FT
BOX10S50PNE	#1/0 BOXED SECTION PRE10 NO ENDS	BLACK	50 FT
TEC10S50PNE	#1/0 SECTION PRE10 NO ENDS	BLACK	50 FT
TEC10S75PNE	#1/0 SECTION PRE10 NO ENDS	BLACK	75 FT
TEC10S100PNE	#1/0 SECTION PRE10 NO ENDS	BLACK	100 FT
TEC10S120PNE	#1/0 SECTION PRE10 NO ENDS	BLACK	120 FT
TEC10S150PNE	#1/0 SECTION PRE10 NO ENDS	BLACK	150 FT
TEC10S200PNE	#1/0 SECTION PRE10 NO ENDS	BLACK	200 FT
BOX20S50PNE	#2/0 BOXED SECTION PRE20 NO ENDS	BLACK	50 FT
TEC20S50PNE	#2/0 SECTION PRE20 NO ENDS	BLACK	50 FT
TEC20S75PNE	#2/0 SECTION PRE20 NO ENDS	BLACK	75 FT
TEC20RS100PNE	#2/0 SECTION PRE20 NO ENDS	RED	100 FT
TEC20S100PNE	#2/0 SECTION PRE20 NO ENDS	BLACK	100 FT
TEC20S200PNE	#2/0 SECTION PRE20 NO ENDS	BLACK	200 FT
TEC20S300PNE	#2/0 SECTION PRE20 NO ENDS	BLACK	300 FT
TEC20S350PNE	#2/0 SECTION PRE20 NO ENDS	BLACK	350 FT
TEC30S50PNE	#3/0 SECTION PRE30 NO ENDS	BLACK	50 FT
TEC30S100PNE	#3/0 SECTION PRE30 NO ENDS	BLACK	100 FT
TEC40S100PNE	#4/0 SECTION PRE40 NO ENDS	BLACK	100 FT
TEC40S120PNE	#4/0 SECTION PRE40 NO ENDS	BLACK	120 FT
TEC40S125PNE	#4/0 SECTION PRE40 NO ENDS	BLACK	125 FT
TEC40S150PNE	#4/0 SECTION PRE40 NO ENDS	BLACK	150 FT
TEC40S160PNE	#4/0 SECTION PRE40 NO ENDS	BLACK	160 FT
TEC40S280PNE	#4/0 SECTION PRE40 NO ENDS	BLACK	280 FT
TEC40S300PNE	#4/0 SECTION PRE40 NO ENDS	BLACK	300 FT

SUGGESTED AMPACITY FOR WELDING CABLE DISTANCE MEASURED IN FEET*

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

This table is for reference only. There are variables in welding applications, therefore it is recommended the user consult an electrical engineer for a particular welding application.

*Distance from power source (per lead)