

APPLICATIONS	• Commercial Truck & Trailer • Heavy Equipment • General Manufacturing & Fabrication • Pipeline • Rail • Ship
PROCESSES	• MIG (GMAW) Welding
RATED OUTPUT	• 250A • 300A • 400A
WIRE SIZE	• 0.030" - 5/64" (0.8 mm-2.0 mm)
DUTY CYCLE	• 60% with Mixed Gases

DURABILITY. RELIABILITY. FEEDABILITY.
STEEL MONOCOIL MAKES THE DIFFERENCE.

The Bernard S-Gun offers extra structural integrity through the steel monocoil inner tube. This durable cable resists pinching, ensuring reliable gas flow and wire feedability — making it ideal for longer cable lengths that are frequently looped or maneuvered around tight corners. Configure a unique combination of neck, handle and trigger options with AccuLock™ S consumables to create an S-Gun suited for your welder's comfort, productivity and joint access. This customized combination of gun configurability and simplified support provides a total cost of ownership that's difficult to match.

- Aluminum armored necks, available as either fixed or rotatable, withstand abuse and offer outstanding heat dissipation

- Compatible with your choice of AccuLock S consumables on any front handle style

- Front Load, Rear Load and E-Z Feed™ Liners (for select wire sizes)

- Available in S250, S350 and S450 models

- Choose your desired cable length:
15, 20 or 25 feet

- Available wire size ranges from
0.030" (0.8 mm) to 5/64" (2.0 mm)

- Straight rear strain relief with Lifetime Warranty now standard



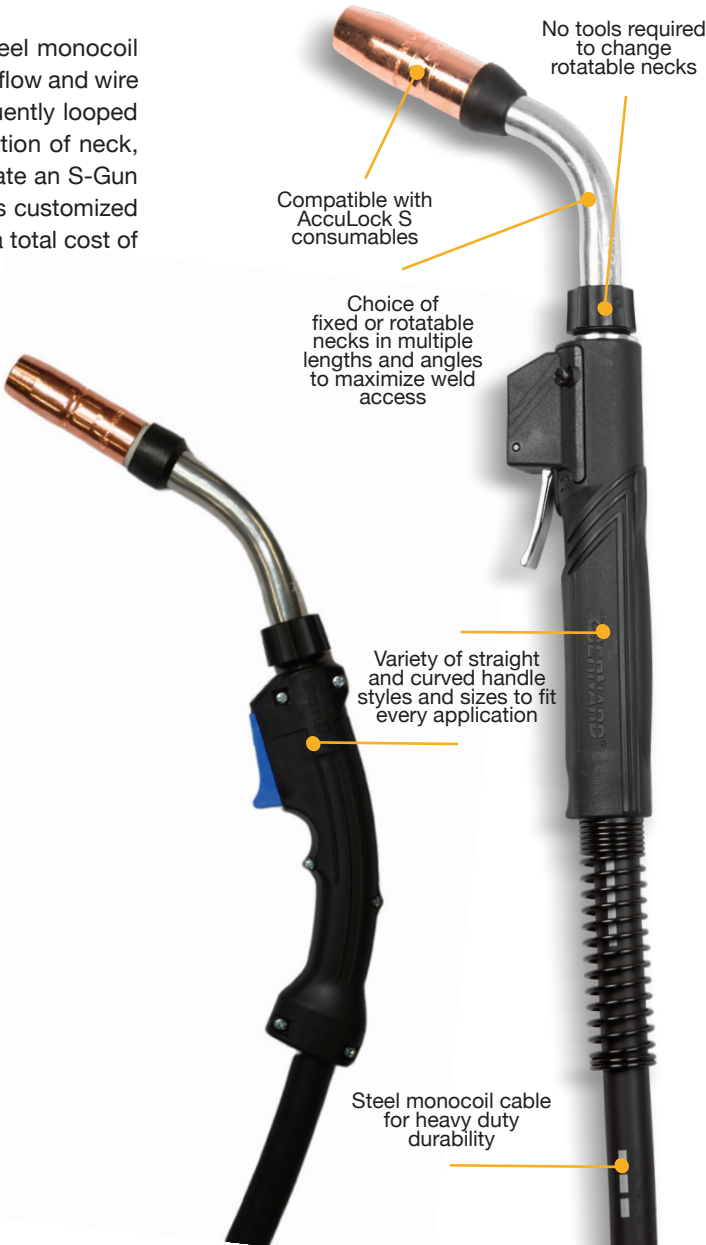
ONE YEAR WARRANTY



CONFIGURE YOUR MIG GUN ONLINE



FIND REPLACEMENT PARTS LIST



CABLE OPTIONS

[CONFIGURABLE OPTION ONLINE]

STEEL MONOCOIL CABLE

Details

The steel monocoil cable offers extra structural integrity through the steel monocoil inner tube which gives it superior pinch resistance and helps to ensure gas flow and wire feedability. The steel monocoil cable is ideal for use in welding applications that require longer gun cables that may be frequently looped or stretched around corners to the point of pinching.

Model Numbers

S250
S350
S450

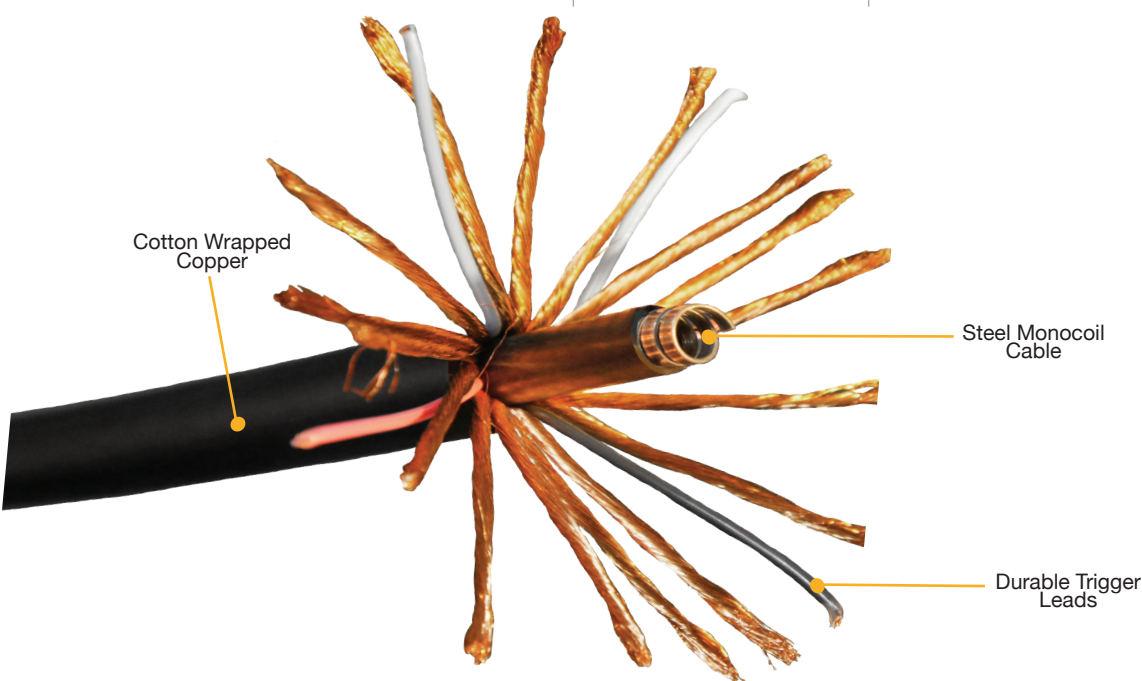
Cable Lengths

15 ft (4.57 m)
20 ft (6.10 m)
25 ft (7.62 m)

Handle Styles

O Series
Small curved handle

T Series
Straight handle



HANDLE & TRIGGER OPTIONS

[CONFIGURABLE OPTION ONLINE]

Features	O Series Small Curved	T Series Straight
Model Number	S250, S350, S450	S250, S350, S450
Style	Curved	Straight
Neck	Fixed or rotatable	Fixed or rotatable
Trigger	Standard	Standard Locking

NECK OPTIONS

[CONFIGURABLE OPTION ONLINE]

FIXED NECKS

T Series Straight Handles

305-45	45° short	405-45	45° medium	505-45	45° long
305-60	60° short	405-60	60° medium	505-60	60° long

ROTATABLE NECKS

O Series Curved Handles and T Series Straight Handles

QT2-45	45° short	QT3-45	45° medium	QT5-45	45° long
QT2-60	60° short	QT3-60	60° medium	QT5-60	60° long

NECK INSULATORS

Users should be aware that neck insulator replacement for Bernard S-Gun MIG guns is based on several variables including:

- Gun amperage
- Neck and handle combination
- Consumables series

Use the chart on the right to select the appropriate replacement neck insulator.

Neck & Handle	Consumables	S250	S350	S450
		Insulator Part Number		
Fixed necks for T Series straight handles	AccuLock S	402-11		
Rotatable necks for O and T Series handles	AccuLock S	4623R		

CONSUMABLES

[CONFIGURABLE OPTION ONLINE]

ACCULOCK™ S CONSUMABLES

SEE ACCULOCK S CONSUMABLES SPEC SHEET (SP-ALS) FOR MORE INFORMATION AND ADDITIONAL OPTIONS THAT CAN BE ORDERED SEPARATELY



Contact Tips

T-A030CH	0.030" (0.8 mm)	T-A052CH	0.052" (1.4 mm)	T-A094CH	3/32" (2.4 mm)
T-A035CH	0.035" (0.9 mm)	T-A062CH	1/16" (1.6 mm)	T-A109CH	7/64" (2.8 mm)
T-A039CH	0.039" (1.0 mm)	T-A072CH	0.072" (1.8 mm)	T-A125CH	1/8" (3.2 mm)
T-A045CH	0.045" (1.2 mm)	T-A078CH	5/64" (2.0 mm)		

Tapered Contact Tips

TT-A023CH	0.023" (0.6 mm)	TT-A039CH	0.039" (1.0 mm)	TT-A052CH	0.052" (1.4 mm)
TT-A030CH	0.030" (0.8 mm)	TT-A045CH	0.045" (1.2 mm)	TT-A062CH	1/16" (1.6 mm)
TT-A035CH	0.035" (0.9 mm)				

Aluminum-Specific Contact Tips

T-A035AL	0.035" (0.9 mm)	T-A047AL	3/64" (1.2 mm)	T-A062AL	1/16" (1.6 mm)
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Nozzles - Large

N-A3400C	3/4" bore, flush, copper	N-A3414B	3/4" bore, 1/4" recess, brass	N-A5814C	5/8" bore, 1/4" recess, copper
N-A3418C	3/4" bore, 1/8" recess, copper	N-A5800C	5/8" bore, flush, copper	N-A5818B	5/8" bore, 1/8" recess, brass
N-A3414C	3/4" bore, 1/4" recess, copper	N-A5818C	5/8" bore, 1/8" recess, copper	N-A5814B	5/8" bore, 1/4" recess, brass
N-A3418B	3/4" bore, 1/8" recess, brass				

Nozzles - Small

NS-A5800C	5/8" bore, flush, copper	NS-A1200B	1/2" bore, flush, brass	NST-A3800B	3/8" bore, flush, brass
NS-A5818C	5/8" bore, 1/8" recess, copper	NS-A1218B	1/2" bore, 1/8" recess, brass	NST-A3818B	3/8" bore, 1/8" recess, brass
NS-A5800B	5/8" bore, flush, brass	NS-A1218C	1/2" bore, 1/8" recess, copper	NST-A38XTB	3/8" bore, 1/8" ext., brass
NS-A5818B	5/8" bore, 1/8" recess, brass			NST-A1218B	1/2" bore, 1/8" recess, brass

Diffusers

FOR USE WITH FRONT LOAD LINERS

D-A1	Large, brass, thread-on	DS-A1	Small, brass, thread-on
D-A2	Large, brass, slip-on	DS-A2	Small, brass, slip-on

Diffusers

FOR USE WITH BERNARD REAR LOAD LINERS ON MILLER PACKAGES

D-A1-C	Large, brass, thread-on	DS-A1-C	Small, brass, thread-on
D-A2-C	Large, brass, slip-on	DS-A2-C	Small, brass, slip-on

FRONT LOAD LINERS

SEE ACCULOCK S CONSUMABLES SPEC SHEET (SP-ALS) FOR MORE INFORMATION AND ADDITIONAL OPTIONS THAT CAN BE ORDERED SEPARATELY

15' (4.57 m) Gun Lengths

LA2A-15	for 0.030" - 0.035" wire	LAD4A-15	for 0.045" - 1/16" wire	LA7A-15	for 3/32" wire
LAD3A-15	for 0.035" - 0.045" wire	LA6A-15	for 5/64" wire	LA8A-15	for 7/64" - 1/8" wire

20' (6.10 m) Gun Lengths

LA2A-20	for 0.030" - 0.035" wire	LAD4A-20	for 0.045" - 1/16" wire	LA7A-20	for 3/32" wire
LAD3A-20	for 0.035" - 0.045" wire	LA6A-20	for 5/64" wire	LA8A-20	for 7/64" - 1/8" wire

25' (7.62 m) Gun Lengths

LA2A-25	for 0.030" - 0.035" wire	LAD4A-25	for 0.045" - 1/16" wire	LA7A-25	for 3/32" wire
LAD3A-25	for 0.035" - 0.045" wire	LA6A-25	for 5/64" wire	LA8A-25	for 7/64" - 1/8" wire

CONSUMABLES

[CONTINUED]

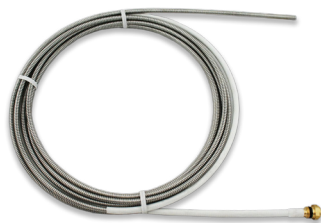
ACCULOCK™ S POWER PINS AND POWER PIN CAPS

	Power Pin	Power Pin Cap	Cap Washer Color	Compatible Wire Size
Miller®	2200206	2200352	Green	0.030" (0.8 mm) - 0.035" (0.9 mm)
		2200353	White	0.035" (0.9 mm) - 0.45" (1.2 mm)
		2200354	Red	0.045" (1.2 mm) - 1/16" (1.6 mm)
		2200355	Blue	5/64" (2.0 mm)
	2200207	2200356	Grey	3/32" (2.4 mm)
		2200357	Black	7/64" (2.8 mm) - 1/8" (3.2 mm)
Lincoln®	2200210	2200310	Green	0.030" (0.8 mm) - 0.035" (0.9 mm)
		2200311	White	0.035" (0.9 mm) - 0.45" (1.2 mm)
		2200312	Red	0.045" (1.2 mm) - 1/16" (1.6 mm)
		2200313	Blue	5/64" (2.0 mm)
	2200211	2200314	Grey	3/32" (2.4 mm)
		2200315	Black	7/64" (2.8 mm) - 1/8" (3.2 mm)
Tweco® #4	2200150	2200282	Green	0.030" (0.8 mm) - 0.035" (0.9 mm)
		2200283	White	0.035" (0.9 mm) - 0.45" (1.2 mm)
		2200284	Red	0.045" (1.2 mm) - 1/16" (1.6 mm)
		2200285	Blue	5/64" (2.0 mm)
	2200151	2200286	Grey	3/32" (2.4 mm)
		2200287	Black	7/64" (2.8 mm) - 1/8" (3.2 mm)
Tweco® #5	2200156	2200296	Green	0.030" (0.8 mm) - 0.035" (0.9 mm)
		2200297	White	0.035" (0.9 mm) - 0.45" (1.2 mm)
		2200298	Red	0.045" (1.2 mm) - 1/16" (1.6 mm)
		2200299	Blue	5/64" (2.0 mm)
	2200157	2200300	Grey	3/32" (2.4 mm)
		2200301	Black	7/64" (2.8 mm) - 1/8" (3.2 mm)

IMPORTANT NOTE: TO CONVERT ANY BERNARD® BTB MIG GUN WITH A MILLER®, LINCOLN®, TWECO® #4, TWECO® #5, AND EURO POWER PIN, PLEASE FOLLOW THE ABOVE CHART TO IDENTIFY THE POWER PIN AND CAP NEEDED FOR THE ACCULOCK™ S CONSUMABLES SYSTEM. NEED EXTRA SET SCREWS? ORDER 2300023P FOR A PACKAGE OF (10) 1/4-20 X 3/16", LONG CUP POINT SET SCREWS.

REAR LOAD LINERS

SEE BERNARD REAR LOAD LINER SPEC SHEET ([SP-BER-RLI](#)) FOR MORE INFORMATION



REAR LOAD LINER

15' (4.57 m) Gun Lengths

L1A-15	for 0.023" - 0.030" wire	L6A-15	for 5/64" wire
L2A-15	for 0.030" - 0.035" wire	L7A-15	for 3/32" wire
LD3A-15	for 0.035" - 0.045" wire*	L8A-15	for 7/64" - 1/8" wire
LD4A-15	for 0.045" - 1/16" wire**		

25' (7.62 m) Gun Lengths

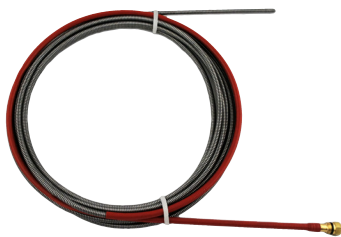
L1A-25	for 0.023" - 0.030" wire	L6A-25	for 5/64" wire
L2A-25	for 0.030" - 0.035" wire	L7A-25	for 3/32" wire
LD3A-25	for 0.035" - 0.045" wire*	L8A-25	for 7/64" - 1/8" wire
LD4A-25	for 0.045" - 1/16" wire**		

* E-Z FEED LINER TECHNOLOGY

* STANDARD LINER FOR 0.035" & 0.045" GUNS

**STANDARD LINER FOR 1/16" GUNS

E-Z FEED™ REAR LOAD LINERS



E-Z FEED REAR LOAD LINER

E-Z Feed Rear Load liners feature a unique profile and galvanized coating that improves wire feedability through the MIG gun. Its design shields wire from moisture and humidity while reinforcing rigidity for better wire support. The E-Z Feed liner technology is especially effective for feeding hard-to-feed wires like metal-cored and stainless steel.

POWER PINS

[CONFIGURABLE OPTION ONLINE]

SEE BERNARD POWER PIN SPEC SHEET ([SP-PPK](#)) FOR MORE INFORMATION

MILLER®



1880259M Power pin kit
2200137 Power pin (Includes O-rings)
214-9 for 7/64" - 1/8"

AccuLock S Pins and Caps

PLEASE SEE PAGE 5

LINCOLN®



1880259L Power pin kit
214-2-1 Power pin

Acculock S Pins and Caps

PLEASE SEE PAGE 5

EURO

1880259E Power Pin Kit
5060T Euro Block Assembly
4816 Adaptor Nut

TWECO® #4



1880259T4 Power pin kit
214 Power pin (Includes O-rings)

AccuLock S Pins and Caps

PLEASE SEE PAGE 5

ADDITIONAL OPTIONS

[NOT CONFIGURABLE, ORDER SEPARATELY]



BERNARD® JUMP LINERS

[INCLUDED WITH AND TO BE USED WITH ROTATABLE NECK OPTION GUNS]

Jump liners replace only the most commonly worn and clogged liner area to reduce the amount of time a gun is offline and to minimize inventory. These jump liners enable quick and easy neck change-out so guns can be easily adapted to fit multiple applications.

The Bernard® Jump Liners connect with rear load liners at the base of the neck and run through the most commonly worn area up to the contact tip.

For use with Rotatable Neck option guns.

QJL-3545	0.035" - 0.045" (0.9 mm - 1.2 mm)	14"
QJL-116	1/16" (1.6 mm)	14"

NOTE: NOT COMPATIBLE WITH FRONT LOAD LINERS
SEE BERNARD® JUMP LINER SPEC SHEET (SP-JL) FOR MORE INFORMATION



FLEX NECKS

FOR O SERIES HANDLES CONFIGURED WITH ROTATABLE NECKS

Save labor and time — change, rotate or bend the flex neck to your desired angle without tools. The connection improves conductivity for better weld quality and lessens heat to increase operator comfort. Available in 6" and 8" lengths and is easily removable for jump liner changeover.

QT-F-6	6" length
QT-F-8	8" length
1680085	Rotatable adaptor (required for use with T Series handles only)

ACCESSORIES

[NOT CONFIGURABLE, ORDER SEPARATELY]

NECK GRIPS



FOR CURVED HANDLE MIG GUNS

This high temperature rubber sleeve for curved handle MIG guns provides the operator with improved accuracy and reduced heat exposure. The Q-Neck grip is designed to help users hold the neck in a steady position, improve overall weld quality and reduce operator fatigue.

1840067



FOR T SERIES HANDLES

This neck grip features a heavy duty metal spring for straight handle MIG guns configured with fixed necks. Designed to reduce heat exposure and help users hold the neck in a steady position in order to improve weld quality and reduce operator fatigue.

406-1 60°
406-2 45°

Q-NECK COUPLER



The Q-Neck coupler is designed to connect any two Q-Necks for flexibility and to minimize the need for special-order necks. Compatible with any rotatable necks.

QT-CPL

ADDITIONAL ACCESSORIES

Gun Hanger

Store your Bernard® MIG gun neatly and efficiently between welds with this gun hanger.

422H Compatible with fixed or rotatable necks



Heat Shield

Our durable heat shield reduces heat exposure from the weld, protecting the user's hand and improving operator comfort and weld quality.

421 Compatible with fixed or rotatable necks

HANDLE REPLACEMENT KITS

O Series Small

1880219 S250, S350, S450 (standard, locking)
177370 S250, S350, S450 (standard with ext.)

ORDERING INFORMATION

Amperage	Length	Handle & Trigger Option	Neck Option	Consumables	Wire Sizes	Power Pin	Liner Type
S40	15	M	E	4	D	M	A
STEEL MONOCOIL CABLE S20 250 amp Max. wire size 1/16" S30 300 amp Max. wire size 5/64" S40 400 amp Max. wire size 5/64"	15 ft. (4.57 m) 20 ft. (6.16 m) 25 ft. (7.63 m)	<u>T SERIES STRAIGHT HANDLE</u> <u>S20, S30, S40</u> M Standard trigger N Locking trigger <u>O SERIES SMALL CURVED</u> <u>HANDLE S20, S30, S40</u> T Standard trigger	ROTATABLE B Short 45° C Short 60° E Medium 45° F Medium 60° H Long 45° I Long 60° FIXED O Short 45° P Short 60° R Medium 45° S Medium 60° U Long 45° V Long 60°	4 AccuLock S††† 9 AccuLock S ††††	B 0.030" (0.8 mm) C 0.035" (0.9 mm) D 0.039" (1.0 mm) E 0.045" (1.2 mm) H 0.052" (1.4 mm) I 1/16" (1.6 mm) K 5/64" (2.0 mm) ALUMINUM Q 0.035" (0.9 mm) R 3/64" (1.2 mm) S 1/16" (1.6 mm)	E Euro†† L Lincoln M Miller S Tweco #4 (Lincoln lead)	A Front load liner C Rear load liner

††NOT COMPATIBLE WITH FRONT LOAD LINER TYPE "A"
†††COMPATIBLE ONLY WITH BERNARD® FRONT LOAD LINERS.
†††† COMPATIBLE WITH BERNARD® REAR LOAD LINERS ON MILLER PACKAGES.
††††† COMPATIBLE WITH REAR LOAD LINER.

CONFIGURE YOUR MIG GUN OR REVERSE
LOOKUP YOUR EXISTING GUN PART NUMBER
TO FIND YOUR REPLACEMENT PARTS LIST.



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SUBJECT TO CHANGE – THE INFORMATION PRESENTED IN THIS SPEC SHEET IS ACCURATE TO THE BEST OF OUR KNOWLEDGE AT THE TIME OF PRINTING.
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