

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

ENGINEERED FOR SIMPLICITY. BUILT FOR DURABILITY.

The Bernard® S-Gun™ semi-automatic air-cooled MIG guns are engineered to accommodate each welder's neck, handle and trigger preferences for increased weld access, comfort and productivity. Plus, these gun variations can all be supported with a common line of high-performing consumables — **Featuring AccuLock™ S consumables** — which simplifies ongoing maintenance and inventory costs. This unique 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
- AccuLock™ S liners, Bernard® conventional liners or QUICK LOAD® liners
- Available in 300 and 400 amp 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.

Amperages

300 amp
400 amp

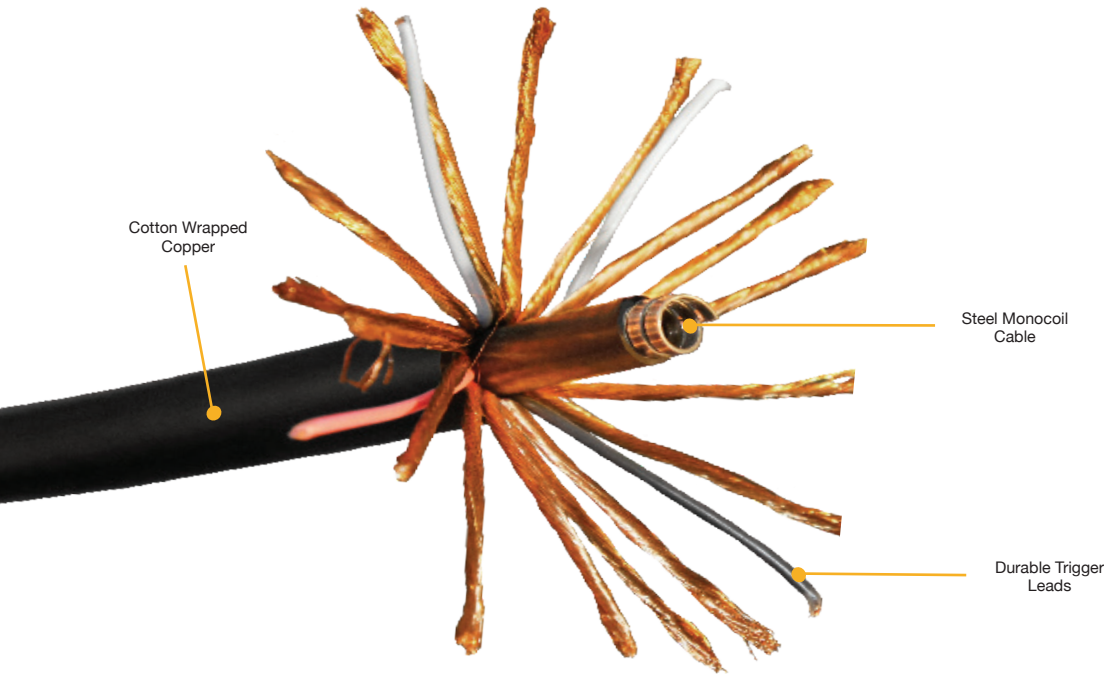
Cable Lengths

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

Handle Styles




O Series
Curved handle
Small curved handle (300A/400A)

T Series
Straight handle (300A/400A)



HANDLE & TRIGGER OPTIONS

[CONFIGURABLE OPTION ONLINE]

Features	O Series Small Curved	O Series Curved	T Series Straight
			
Amperage	300, 400	400	300, 400
Style	Curved	Curved	Straight
Neck	Fixed or rotatable	Fixed or rotatable	Fixed or rotatable
Trigger	Standard	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	300A	400A
		Insulator Part Number	
Fixed necks for T Series straight handles	AccuLock™ S	402-11	402-11
Rotatable necks for O and T Series handles	AccuLock™ S	4623R	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-A023CH 0.023" (0.6 mm)	T-A045CH 0.045" (1.2 mm)	T-A078CH 5/64" (2.0 mm)
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)

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)		

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 ACCULOCK™ S LINERS (FRONT-LOADING)

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® CONVENTIONAL LINERS ON MILLER® PACKAGES (REAR-LOADING)

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

ACCULOCK™ S LINERS [FRONT-LOADING]

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

LA1A-15 for 0.023" - 0.030" wire	LAD4A-15 for 0.045" - 1/16" wire	LA7A-15 for 3/32" wire
LA2A-15 for 0.030" - 0.035" wire	LA6A-15 for 5/64" wire	LA8A-15 for 7/64" - 1/8" wire
LAD3A-15 for 0.035" - 0.045" wire		

20' (6.10 m) Gun Lengths

LA1A-20 for 0.023" - 0.030" wire	LAD4A-20 for 0.045" - 1/16" wire	LA7A-20 for 3/32" wire
LA2A-20 for 0.030" - 0.035" wire	LA6A-20 for 5/64" wire	LA8A-20 for 7/64" - 1/8" wire
LAD3A-20 for 0.035" - 0.045" wire		

25' (7.62 m) Gun Lengths

LA1A-25 for 0.023" - 0.030" wire	LAD4A-25 for 0.045" - 1/16" wire	LA7A-25 for 3/32" wire
LA2A-25 for 0.030" - 0.035" wire	LA6A-25 for 5/64" wire	LA8A-25 for 7/64" - 1/8" wire
LAD3A-25 for 0.035" - 0.045" wire		

ACCULOCK™ S POWER PINS AND POWER PIN CAPS

	Power Pin	Power Pin Cap	Cap Washer Color	Compatible Wire Size
Miller®	2200206	2200351	Yellow	0.023" (0.6 mm) - 0.030" (0.8 mm)
		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	2200309	Yellow	0.023" (0.6 mm) - 0.030" (0.8 mm)
		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	2200281	Yellow	0.023" (0.6 mm) - 0.030" (0.8 mm)
		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)
Euro	2200359 & 2200273	2200337	Yellow	0.023" (0.6 mm) - 0.030" (0.8 mm)
		2200338	Green	0.030" (0.8 mm) - 0.035" (0.9 mm)
		2200339	White	0.035" (0.9 mm) - 0.45" (1.2 mm)
		2200340	Red	0.045" (1.2 mm) - 1/16" (1.6 mm)
		2200341	Blue	5/64" (2.0 mm)
		2200342	Grey	3/32" (2.4 mm)
		2200343	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.

BERNARD® CONVENTIONAL LINERS (REAR-LOADING)

SEE BERNARD® CONVENTIONAL LINER SPEC SHEET ([SP-L](#)) FOR MORE INFORMATION

15' (4.57 m) Gun Lengths

L1A-15	for 0.023" - 0.030" wire	L4A-15	for 0.045" - 1/16" wire**
L2A-15	for 0.030" - 0.035" wire	L6A-15	for 5/64" wire
L3A-15	for 0.035" - 0.045" wire*		

25' (7.62 m) Gun Lengths

L1A-25	for 0.023" - 0.030" wire	L4A-25	for 0.045" - 1/16" wire**
L2A-25	for 0.030" - 0.035" wire	L6A-25	for 5/64" wire
L3A-25	for 0.035" - 0.045" wire*		

CONVENTIONAL LINERS FOR ALUMINUM WIRE (REAR-LOADING)

15' (4.57 m) Gun Lengths

415-35-2	Steel wrapped nylon liner for 0.035" - 0.045" wire	415-116-2	Steel wrapped nylon liner for 0.045" - 1/16" wire
415-45-03	Polymer liner for 0.035" - 3/64" wire	415-116-23	Polymer liner for 3/64" - 1/16" wire

25' (7.62 m) Gun Lengths

415-45-04	Steel wrapped nylon liner for 0.035" - 0.045" wire
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Jump Liners

415-25	Bronze jump liner for polymer liner
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*STANDARD LINER FOR 0.035" & 0.045" GUNS

**STANDARD LINER FOR 1/16" GUNS

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



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 conventional 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 ACCULOCK™ S FRONT LOADING DUAL-LOCKED 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 changover.

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

ACCESSORIES

[NOT CONFIGURABLE, PLEASE 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 300, 400 amp (standard, locking)

177370 300, 400 (standard with ext.)

O Series

1880220 400 amp (standard)

NOTES

ORDERING INFORMATION

Amperage	Length	Handle & Trigger Option	Neck Option	Consumables	Wire Sizes	Power Pin	Liner Type
S40	15	A	E	4	D	M	A
STEEL MONOCOIL CABLE 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>O SERIES CURVED HANDLE S40</u> G Standard trigger <u>T SERIES STRAIGHT HANDLE S30, S40</u> M Standard trigger N Locking trigger <u>O SERIES SMALL CURVED HANDLE 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)	E Euro†† L Lincoln® M Miller® R Tweco® #4 (Miller lead)	A AccuLock™ S liner††† C Conventional liner

††NOT COMPATIBLE WITH ACCULOCK S LINER TYPE "A"

†††COMPATIBLE ONLY WITH ACCULOCK™ CONTACT TIP OPTION.

†††† COMPATIBLE WITH BERNARD® CONVENTIONAL LINERS ON MILLER® PACKAGES.

††††† COMPATIBLE WITH CONVENTIONAL LINER

*AVAILABLE FOR WIRE SIZES BETWEEN 0.023" AND 3/32"; AVAILABLE FOR CABLE LENGTHS UP TO 15 FT (4.57M); NOT COMPATIBLE WITH ALUMINUM WIRE.

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



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