

HIGH PERFORMANCE REPLACEMENT TORCH LINERS

ELLIPTICAL WIRE LINERS FOR SUPERIOR FEEDABILITY

PowerBall® Torch Liners provide a simple and cost-effective way of boosting the performance of existing robotic and semi-automatic MIG Guns. By reducing wire skid friction, wire vibration and wire shaving, they can provide instant results with **improved welding quality, consistency and smoother wire delivery.**

- ▶ Elliptical wire liner with proprietary coating reduces skid friction and eliminates wire shaving
- ▶ **72% LESS wire skid friction** vs. round wire liner (as tested with .045 wire @ 175 IPM and 15' liner)
- ▶ Long life due to less friction and reduced wear
- ▶ Reduces wire vibration that can cause arc failures and poor welding consistency
- ▶ Durable outer jacket extends 12" (305 mm) to minimize gas loss at back end of the torch
- ▶ Replacement liners available for most robotic and semi-automatic MIG gun brands



ELLIPTICAL WIRE LINER PATENTED DESIGN

Extended outer jacket
minimizes gas loss

Helically wound
elliptical wire liner
Reduces skid friction



CORROSION RESISTANT!

Ideal for shipyards & outdoor environments

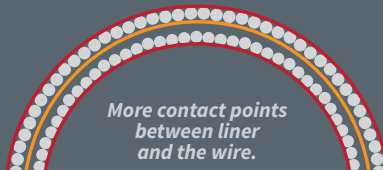
POWERBALL®

COMPETITOR



Test results after each liner was submerged in a saltwater solution for 48 hours.

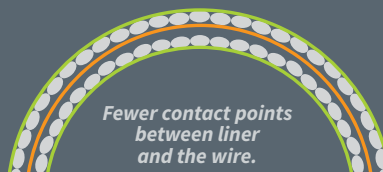
ROUND WIRE TORCH LINER



More contact points
between liner
and the wire.

Wear pattern in a round wire liner after feeding an equal amount of weld wire. The groove is approximately 60% deeper.

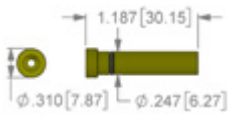
ELLIPTICAL WIRE TORCH LINER



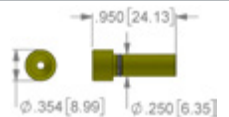
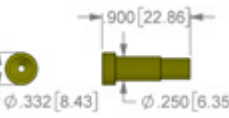
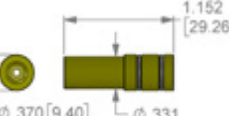
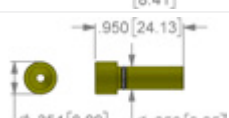
Fewer contact points
between liner
and the wire.

Wear pattern in the PowerBall® liner after feeding an equal amount of weld wire. Extended service life due to less wear.

AMERICAN WELDQUIP® REPLACEMENT LINERS *for Ferrous Wire*

Liner Collet Detail	Part #	OEM Part #	Wire Size Range	Length	Liner Style
	WTP-AWL-3545-6	75006222T	.035 – .045 (0.9 – 1.2 mm)	6' (1.8 m)	Rear Load
	WTP-AWL-3545-10	75010222T	.035 – .045 (0.9 – 1.2 mm)	10' (3 m)	Rear Load
	WTP-AWL-3545-15	75015222T	.035 – .045 (0.9 – 1.2 mm)	15' (4.6 m)	Rear Load
	WTP-AWL-45116-6	75005228T	.045 – .062 (1.2 – 1.6 mm)	6' (1.8 m)	Rear Load
	WTP-AWL-45116-15	75015228T	.045 – .062 (1.2 – 1.6 mm)	15' (4.6 m)	Rear Load
	WTP-AWL-45116-25	75025228T	.045 – .062 (1.2 – 1.6 mm)	25' (7.6 m)	Rear Load

BINZEL® REPLACEMENT LINERS *for Ferrous Wire*

Liner Collet Detail	Part #	OEM Part #	Wire Size Range	Length	Liner Style
	WTP-BZL-3545-17-2	S-3545-17PT	.035 – .045 (0.9 – 1.2 mm)	17' (5.2 m)	Rear Load (no jacket)
	WTP-BZL-3545-28-2	S-3545-28PT	.035 – .045 (0.9 – 1.2 mm)	28' (8.5 m)	Rear Load (no jacket)
	WTP-BZL-45116-17-2	S-5262-17PT	.045 – .062 (1.2 – 1.6 mm)	17' (5.2 m)	Rear Load (no jacket)
	WTP-BZL-45116-28-2	S-5262-28PT	.045 – .062 (1.2 – 1.6 mm)	28' (8.5 m)	Rear Load (no jacket)
	WTP-BZL-3545-8-3	SI-3545-8PT	.035 – .045 (0.9 – 1.2 mm)	8' (2.4 m)	Rear Load
	WTP-BZL-3545-17-3	SI-3545-17PT	.035 – .045 (0.9 – 1.2 mm)	17' (5.2 m)	Rear Load
	WTP-BZL-3545-28-3	SI-3545-28PT	.035 – .045 (0.9 – 1.2 mm)	28' (8.5 m)	Rear Load
	WTP-BZL-45116-8-3	SI-5262-8PT	.045 – .062 (1.2 – 1.6 mm)	8' (2.4 m)	Rear Load
	WTP-BZL-45116-17-3	SI-5262-17PT	.045 – .062 (1.2 – 1.6 mm)	17' (5.2 m)	Rear Load
	WTP-BZL-45116-28-3	SI-5262-28PT	.045 – .062 (1.2 – 1.6 mm)	28' (8.5 m)	Rear Load
	WTP-BZL-3545-8-1	SI4-3545-8PT	.035 – .045 (0.9 – 1.2 mm)	8' (2.4 m)	Rear Load
	WTP-BZL-3545-17-1	SI4-3545-17PT	.035 – .045 (0.9 – 1.2 mm)	17' (5.2 m)	Rear Load
	WTP-BZL-3545-28-1	SI4-3545-28PT	.035 – .045 (0.9 – 1.2 mm)	28' (8.5 m)	Rear Load
	WTP-BZL-45116-8-1	SI4-5262-8PT	.035 – .045 (0.9 – 1.2 mm)	8' (2.4 m)	Rear Load
	WTP-BZL-45116-17-1	SI4-5262-17PT	.045 – .062 (1.2 – 1.6 mm)	17' (5.2 m)	Rear Load
	WTP-BZL-45116-28-1	SI4-5262-28PT	.045 – .062 (1.2 – 1.6 mm)	28' (8.5 m)	Rear Load
	WTP-BZJL-3545		.035 – .045 (0.9 – 1.2 mm)	14.5" (368 mm)	Jump Liner
	WTP-BZJL-45116		.045 – .062 (1.2 – 1.6 mm)	14.5" (368 mm)	Jump Liner
	WTP-BZJL-45116-3	Please inspect and verify your Binzel® collet design prior to ordering	.045 – .062 (1.2 – 1.6 mm)	11" (279 mm)	Jump Liner
	WTP-BZJL-3545-1		.035 – .045 (0.9 – 1.2 mm)	10.25" (260 mm)	Jump Liner
	WTP-BZJL-45116-1		.045 – .062 (1.2 – 1.6 mm)	10.25" (260 mm)	Jump Liner
	WTP-BZJL-45116-2		.045 – .062 (1.2 – 1.6 mm)	7.75" (197 mm)	Jump Liner (no jacket)

LINCOLN ELECTRIC® REPLACEMENT LINERS *for Ferrous Wire*

Liner Collet Detail	Part #	OEM Part #	Wire Size Range	Length	Liner Style
	WTP-TWL-3545-6-S4	KP45-3545-6	.035 – .045 (0.9 – 1.2 mm)	6' (1.8 m)	Rear Load
	WTP-TWL-3545-15-S4	KP45-3545-15 (15')	.035 – .045 (0.9 – 1.2 mm)	10' (3 m)	Rear Load
	WTP-TWL-3545-25-S4	KP45-3545-15	.035 – .045 (0.9 – 1.2 mm)	15' (4.6 m)	Rear Load
	WTP-TWL-45116-15-S4	KP45-3545-25	.035 – .045 (0.9 – 1.2 mm)	25' (7.6 m)	Rear Load
	WTP-TWL-45116-25-S4	N/A	.045 – 1/16 (1.2 – 1.6 mm)	4.5' (1.4 m)	Rear Load
	WTP-TWL-564-15-S4	N/A	.045 – 1/16 (1.2 – 1.6 mm)	6' (1.8 m)	Rear Load
	WTP-TWL-564-25-S4	KP45-116-15 (15')	.045 – 1/16 (1.2 – 1.6 mm)	10' (3 m)	Rear Load
	WTP-TWL-3545-15-S4	KP45-116-15	.045 – 1/16 (1.2 – 1.6 mm)	15' (4.6 m)	Rear Load
	WTP-TWL-3545-25-S4	KP45-116-25	.045 – 1/16 (1.2 – 1.6 mm)	25' (7.6 m)	Rear Load
	WTP-TWL-45116-15-S4	N/A	5/64 (2 mm)	6' (1.8 m)	Rear Load
	WTP-TWL-45116-25-S4	KP45H-332-15 (15')	5/64 (2 mm)	10' (3 m)	Rear Load
	WTP-TWL-564-15-S4	KP45H-332-15	5/64 (2 mm)	15' (4.6 m)	Rear Load
	WTP-TWL-564-25-S4	KP45H-332-25	5/64 (2 mm)	25' (7.6 m)	Rear Load
	WTP-TWL-45116-15-S4	N/A	3/32 (2.4 mm)	6' (1.8 m)	Rear Load
	WTP-TWL-45116-25-S4	KP45H-332-15 (15')	3/32 (2.4 mm)	10' (3 m)	Rear Load
	WTP-TWL-564-15-S4	KP45H-332-15	3/32 (2.4 mm)	15' (4.6 m)	Rear Load
	WTP-TWL-564-25-S4	KP45H-332-25	3/32 (2.4 mm)	25' (7.6 m)	Rear Load

Please inspect and verify all torch liner collet designs prior to ordering.

LINCOLN ELECTRIC® REPLACEMENT LINERS (CONTINUED) *for Ferrous Wire*

Liner Collet Detail	Part #	OEM Part #	Wire Size Range	Length	Liner Style
	WTP-TWL-3545-6-S4	N/A	.035 – .045 (0.9 – 1.2 mm)	6' (1.8 m)	Rear Load
	WTP-TWL-3545-15-S4	KP44-3545-15	.035 – .045 (0.9 – 1.2 mm)	15' (4.6 m)	Rear Load
	WTP-TWL-3545-25-S4	KP44-3545-25	.035 – .045 (0.9 – 1.2 mm)	25' (7.6 m)	Rear Load
	WTP-TWL-45116-15-S4	KP44-116-15	.045 – 1/16 (1.2 – 1.6 mm)	15' (4.6 m)	Rear Load
	WTP-TWL-45116-25-S4	KP44-116-25	.045 – 1/16 (1.2 – 1.6 mm)	25' (7.6 m)	Rear Load
	WTP-TWL-564-15-S4	KP44-564-15	5/64 (2 mm)	15' (4.6 m)	Rear Load
	WTP-TWL-564-25-S4	KP44-564-25	5/64 (2 mm)	25' (7.6 m)	Rear Load
	WTP-LNJL-3545	KP3364-1	.035 – .045 (0.9 – 1.2 mm)	13.25" (337 mm)	Jump Liner (1/4" liner stick-out)
	WTP-LNJL-45116	KP3364-2	.045 – 1/16 (1.2 – 1.6 mm)	13.25" (337 mm)	Jump Liner (1/4" liner stick-out)
	WTP-LNJL-3545-1	N/A	.035 – .045 (0.9 – 1.2 mm)	13.25" (337 mm)	Jump Liner
	WTP-LNJL-45116-1	N/A	.045 – 1/16 (1.2 – 1.6 mm)	13.25" (337 mm)	Jump Liner
	WTP-ELL-FL-3545-6	—	.035 – .045 (0.9 – 1.2 mm)	6' (1.8 m)	Front Load Requires TLC-LN-FL
	WTP-ELL-FL-45116-6	—	.045 – 1/16 (1.2 – 1.6 mm)	6' (1.8 m)	Front Load Requires TLC-LN-FL
	TLC-LN-FL	KP45 Style Collet	.035 – 1/16 (0.9 – 1.6 mm)	Sold Individually	Adapter for Lincoln Electric® Front Load Liners

OTC® REPLACEMENT LINERS *for Ferrous Wire*

Liner Collet Detail	Part #	OEM Part #	Wire Size Range	Length	Liner Style
	WTP-OTL-3545-6	N/A	.035 - .045 (0.9 - 1.2 mm)	6' (1.8 m)	Rear Load
	WTP-OTL-3545-10	U4170H02	.035 - .045 (0.9 - 1.2 mm)	10' (3 m)	Rear Load
	WTP-OTL-3545-15	U4535G01	.035 - .045 (0.9 - 1.2 mm)	15' (4.6 m)	Rear Load
	WTP-OTL-45116-6	N/A	.045 - 1/16 (1.2 - 1.6 mm)	6' (1.8 m)	Rear Load
	WTP-OTL-45116-10	U4173G04	.045 - 1/16 (1.2 - 1.6 mm)	10' (3 m)	Rear Load
	WTP-OTL-45116-15	U4537G01, U4573G01 (OTC .052)	.045 - 1/16 (1.2 - 1.6 mm)	15' (4.6 m)	Rear Load

PANASONIC® REPLACEMENT LINERS *for Ferrous Wire*

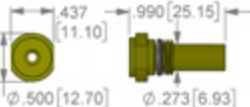
Liner Collet Detail	Part #	OEM Part #	Wire Size Range	Length	Liner Style
	WTP-PNL-3545-6	S091, S121	.035 – .045 (0.9 – 1.2 mm)	6' (1.8 m)	Rear Load
	WTP-PNL-3545-10	TDT-00279 (S091), TDT-00262 (S121)	.035 – .045 (0.9 – 1.2 mm)	10' (3 m)	Rear Load
	WTP-PNL-3545-15	TDT-00280 (S091), TDT-00265 (S121)	.035 – .045 (0.9 – 1.2 mm)	15' (4.6 m)	Rear Load
	WTP-PNL-45116-6	S121, S161	.045 – 1/16 (1.2 – 1.6 mm)	6' (1.8 m)	Rear Load
	WTP-PNL-45116-10	TDT-00262 (S121), TDT-00263 (S161)	.045 – 1/16 (1.2 – 1.6 mm)	10' (3 m)	Rear Load
	WTP-PNL-45116-15	TDT-00265 (S121), TDT-00267 (S161)	.045 – 1/16 (1.2 – 1.6 mm)	15' (4.6 m)	Rear Load
	WTP-PNJJ-3545-1	N/A	.035 – .045 (0.9 – 1.2 mm)	16" (406 mm)	Jump Liner
	WTP-PNJJ-45116-1	N/A	.045 – 1/16 (1.2 – 1.6 mm)	16" (406 mm)	Jump Liner

TREGASKISS®/BERNARD® REPLACEMENT LINERS *for Ferrous Wire*

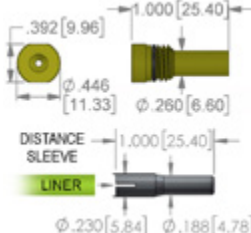
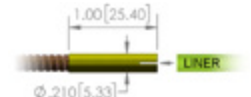
Liner Collet Detail	Part #	OEM Part #	Wire Size Range	Length	Liner Style
	WTP-TRBRL-3545-6	415-30-6, 415-35-6	.035 – .045 (0.9 – 1.2 mm)	6' (1.8 m)	Rear Load
	WTP-TRBRL-3545-10	415-35-10	.035 – .045 (0.9 – 1.2 mm)	10' (3 m)	Rear Load
	WTP-TRBRL-3545-15	415-30-15, 415-35-15, L3A-15, 44115	.035 – .045 (0.9 – 1.2 mm)	15' (4.6 m)	Rear Load
	WTP-TRBRL-3545-25	415-30-25, 415-35-25, L3A-25, 44125	.035 – .045 (0.9 – 1.2 mm)	25' (7.6 m)	Rear Load
	WTP-TRBRL-45116-6	415-116-6	.045 – 1/16 (1.2 – 1.6 mm)	6' (1.8 m)	Rear Load
	WTP-TRBRL-45116-10	415-116-10, 44210	.045 – 1/16 (1.2 – 1.6 mm)	10' (3 m)	Rear Load
	WTP-TRBRL-45116-15	415-116-15, L4A-15, 44215	.045 – 1/16 (1.2 – 1.6 mm)	15' (4.6 m)	Rear Load
	WTP-TRBRL-45116-25	415-116-25, L4A-25, 44225	.045 – 1/16 (1.2 – 1.6 mm)	25' (7.6 m)	Rear Load
	WTP-TRBRL-564-6	415-564-6 (D-Wound)	5/64 (2 mm)	6' (1.8 m)	Rear Load
	WTP-TRBRL-564-10	415-564-10 (D-Wound)	5/64 (2 mm)	10' (3 m)	Rear Load
	WTP-TRBRL-564-15	415-564-15 (D-Wound), L6A-15, 1920356	5/64 (2 mm)	15' (4.6 m)	Rear Load
	WTP-TRBRL-564-25	415-564-25 (D-Wound), L6A-25, 1920357	5/64 (2 mm)	25' (7.6 m)	Rear Load
	WTP-TRBRL-332-6	415-332-6 (Flat Wound)	3/32 (2.4 mm)	6' (1.8 m)	Rear Load
	WTP-TRBRL-332-10	415-332-10 (Flat Wound)	3/32 (2.4 mm)	10' (3 m)	Rear Load
	WTP-TRBRL-332-15	415-332-15 (Flat Wound), L7A-15, 45415	3/32 (2.4 mm)	15' (4.6 m)	Rear Load
WTP-TRBRL-332-25	415-332-25 (Flat Wound), L7A-25, 45425	3/32 (2.4 mm)	25' (7.6 m)	Rear Load	
	WTP-TRBRL-45116-15A	L4A-15	.045 – 1/16 (1.2 – 1.6 mm)	15' (4.6 m)	Rear Load, with Length Adjuster
	WTP-ELL-FL-3545-6	—	.035 – .045 (0.9 – 1.2 mm)	6' (1.8 m)	Front Load <i>Requires TLC-TRBR-FL</i>
	WTP-ELL-FL-45116-6	—	.045 – 1/16 (1.2 – 1.6 mm)	6' (1.8 m)	Front Load <i>Requires TLC-TRBR-FL</i>
	WTP-TRJL-3545	495-18-35	.035 – .045 (0.9 – 1.2 mm)	26" (660 mm)	Jump Liner
	WTP-TRJL-45116	495-18-116	.035 – .045 (0.9 – 1.2 mm)	26" (660 mm)	Jump Liner

Please inspect and verify all torch liner collet designs prior to ordering.

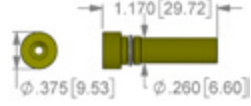
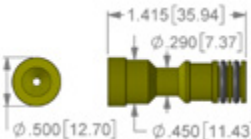
TREGASKISS®/BERNARD® REPLACEMENT LINERS *for Ferrous Wire*

Liner Collet Detail	Part #	OEM Part #	Wire Size Range	Length	Liner Style
	TLC-TRBR-FL	L3A/L4A Style Collet	.035 – 1/16 (0.9 – 1.6 mm)	Sold Individually	Adapter for Tregaskiss®/Bernard® Front Load Liners

TREGASKISS®/BERNARD® POLYMER REPLACEMENT LINERS *for Aluminum/Non-Ferrous Wire*

Liner Collet Detail	Part #	OEM Part #	Wire Size Range	Length	Liner Style
	WTP-TRLP-45116-15	415-116-21 or 415-45-01	.045 – 1/16 (1.2 – 1.6 mm)	15' (4.6 m)	Rear Load, with Distance Sleeve Adapter
	WTP-ELJL-45116A	—	.045 – 1/16 (1.2 – 1.6 mm)	8.5" (216 mm)	Phosphorous Bronze Jump Liner For use with WTP-TRLP-45116-15

TWECO® REPLACEMENT LINERS *for Ferrous Wire*

Liner Collet Detail	Part #	OEM Part #	Wire Size Range	Length	Liner Style
	WTP-TWL-3545-6-S4	N/A	.035 – .045 (0.9 – 1.2 mm)	6' (1.8 m)	Rear Load
	WTP-TWL-3545-15-S4	44-3545-15	.035 – .045 (0.9 – 1.2 mm)	15' (4.6 m)	Rear Load
	WTP-TWL-3545-25-S4	44-3545-25	.035 – .045 (0.9 – 1.2 mm)	25' (7.6 m)	Rear Load
	WTP-TWL-45116-15-S4	44-116-15	.045 – 1/16 (1.2 – 1.6 mm)	15' (4.6 m)	Rear Load
	WTP-TWL-45116-25-S4	44-116-25	.045 – 1/16 (1.2 – 1.6 mm)	25' (7.6 m)	Rear Load
	WTP-TWL-564-15-S4	44-564-15	5/64 (2 mm)	15' (4.6 m)	Rear Load
	WTP-TWL-564-25-S4	44-564-25	5/64 (2 mm)	25' (7.6 m)	Rear Load
	WTP-TWL-332-15-S4	44-332-15	3/32 (2.4 mm)	15' (4.6 m)	Rear Load
	WTP-TWL-332-25-S4	44-332-25	3/32 (2.4 mm)	25' (7.6 m)	Rear Load
	WTP-TWL-3545-15-S5	45-3545-15	.035 – .045 (0.9 – 1.2 mm)	15' (4.6 m)	Rear Load
	WTP-TWL-45116-15-S5	45-116-15	.045 – 1/16 (1.2 – 1.6 mm)	15' (4.6 m)	Rear Load
	WTP-TWL-45116-25-S5	45-116-25	.045 – 1/16 (1.2 – 1.6 mm)	25' (7.6 m)	Rear Load
	WTP-TWL-564-15-S5	45-564-15	5/64 (2 mm)	15' (4.6 m)	Rear Load
	WTP-TWL-564-25-S5	45-564-25	5/64 (2 mm)	25' (7.6 m)	Rear Load
	WTP-TWL-332-15-S5	45H-332-15	3/32 (2.4 mm)	15' (4.6 m)	Rear Load
	WTP-TWL-332-25-S5	45H-332-25	3/32 (2.4 mm)	25' (7.6 m)	Rear Load

BULK LINERS FOR FERROUS WIRE

	Part #	Wire Size Range	Length	Liner Style
	WTP-3545-100B	.035 – .045 (0.9 – 1.2 mm)	100' (30.5 m)	—
	WTP-45116-100B	.045 – 1/16 (1.2 – 1.6 mm)	100' (30.5 m)	—
	WTP-564-100B	5/64 (2 mm)	100' (30.5 m)	—

Please inspect and verify all torch liner collet designs prior to ordering.

ASK ABOUT POWERBALL® HIGH PERFORMANCE REPLACEMENT CONSUMABLES

PowerBall® Contact Tips and Diffusers feature an innovative design with an **all-copper current path for optimum conductivity and cooling**. Better conductivity creates longer lasting contact tips that help eliminate arc failures. Replacement consumables and nozzles are available for a variety of MIG gun brands, contact your Wire Wizard® Sales Expert for details.

