

## REPLACEMENT ELLIPTICAL WIRE LINERS

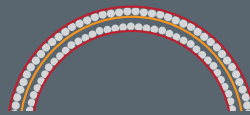
E-Power® Torch Liners provide a simple and cost-effective way of boosting the performance of existing robotic and semi-automatic MIG Guns. By reducing wire skid friction, wire vibration and wire shaving, they can provide instant results with **improved welding quality, consistency and smoother wire delivery.**

- ▶ Elliptical wire liner with proprietary coating reduces skid friction and eliminates wire shaving
- ▶ **72% LESS wire skid friction** vs. round wire liners (tested with .045 wire @ 175 IPM and 15' liner length)
- ▶ 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



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

### ROUND WIRE TORCH LINER

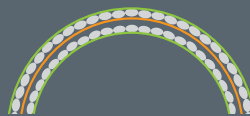


More contact points between liner and the wire.

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

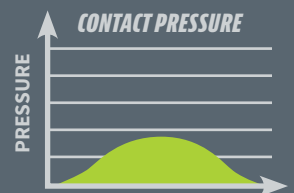


### ELLIPTICAL WIRE TORCH LINER



Fewer contact points between liner and the wire.

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



## AMERICAN WELDQUIP® REPLACEMENT LINERS *Liners for Ferrous Wire*

Liner Collet Detail	Part #	Wire Size Range	Length	Liner Style	OEM Part Numbers
<p>Dimensions: 1.187 [30.15] length, <math>\phi</math>.310 [7.87] outer diameter, <math>\phi</math>.247 [6.27] inner diameter.</p>	WTP-AWL-3545-6	.035 - .045 (0.9 - 1.2 mm)	6' (1.8 m)	Rear Load	75006222T
	WTP-AWL-3545-10	.035 - .045 (0.9 - 1.2 mm)	10' (3 m)	Rear Load	75010222T
	WTP-AWL-3545-15	.035 - .045 (0.9 - 1.2 mm)	15' (4.6 m)	Rear Load	75015222T
	WTP-AWL-45116-6	.045 - 1/16 (1.2 - 1.6 mm)	6' (1.8 m)	Rear Load	75006228T
	WTP-AWL-45116-15	.045 - 1/16 (1.2 - 1.6 mm)	15' (4.6 m)	Rear Load	75010228T
	WTP-AWL-45116-25	.045 - 1/16 (1.2 - 1.6 mm)	25' (7.6 m)	Rear Load	75015228T

## BINZEL® REPLACEMENT LINERS *Liners for Ferrous Wire*

Liner Collet Detail	Part #	Wire Size Range	Length	Liner Style	OEM Part Numbers
<p>Dimensions: 900 [22.86] length, <math>\phi</math>.332 [8.43] outer diameter, <math>\phi</math>.250 [6.35] inner diameter.</p>	WTP-BZL-3545-1.3	.035 - .045 (0.9 - 1.2 mm)	15" (381 mm)	Rear Load	
	WTP-BZL-3545-6	.035 - .045 (0.9 - 1.2 mm)	6' (1.8 m)	Rear Load (no jacket)	
	WTP-BZL-3545-10	.035 - .045 (0.9 - 1.2 mm)	10' (3 m)	Rear Load	
	WTP-BZL-3545-15	.035 - .045 (0.9 - 1.2 mm)	15' (4.6 m)	Rear Load	
	WTP-BZL-3545-25	.035 - .045 (0.9 - 1.2 mm)	25' (7.6 m)	Rear Load	
	WTP-BZL-45116-6	.045 - 1/16 (1.2 - 1.6 mm)	6' (1.8 m)	Rear Load (no jacket)	
	WTP-BZL-45116-10	.045 - 1/16 (1.2 - 1.6 mm)	10' (3 m)	Rear Load	
	WTP-BZL-45116-15	.045 - 1/16 (1.2 - 1.6 mm)	15' (4.6 m)	Rear Load	
	WTP-BZL-45116-25	.045 - 1/16 (1.2 - 1.6 mm)	25' (7.6 m)	Rear Load	
	WTP-BZL-332-6	3/32 (2.4 mm)	6' (1.8 m)	Rear Load	
WTP-BZL-332-10	3/32 (2.4 mm)	10' (3 m)	Rear Load		
WTP-BZL-332-15	3/32 (2.4 mm)	15' (4.6 m)	Rear Load		
WTP-BZL-332-25	3/32 (2.4 mm)	25' (7.6 m)	Rear Load		
<p>Dimensions: 1.152 [29.26] length, <math>\phi</math>.370 [9.40] outer diameter, <math>\phi</math>.331 [8.41] inner diameter, 6.000 length.</p>	WTP-BZL-3545-6-1	.035 - .045 (0.9 - 1.2 mm)	6' (1.8 m)	Rear Load (6" liner stick-out)	
	WTP-BZL-3545-17-1	.035 - .045 (0.9 - 1.2 mm)	17' (5.2 m)	Rear Load (6" liner stick-out)	
	WTP-BZL-45116-6-1	.045 - 1/16 (1.2 - 1.6 mm)	6' (1.8 m)	Rear Load (6" liner stick-out)	
<p>Dimensions: 950 [24.13] length, <math>\phi</math>.354 [8.99] outer diameter, <math>\phi</math>.250 [6.35] inner diameter.</p>	WTP-BZJL-3545	.035 - .045 (0.9 - 1.2 mm)	14.5" (368 mm)	Jump Liner	
	WTP-BZJL-45116	.045 - 1/16 (1.2 - 1.6 mm)	14.5" (368 mm)	Jump Liner	
	WTP-BZJL-45116-3	.045 - 1/16 (1.2 - 1.6 mm)	11" (279 mm)	Jump Liner	
<p>Dimensions: 833 [21.16] length, <math>\phi</math>.315 [8.00] outer diameter, <math>\phi</math>.226 [5.74] inner diameter.</p>	WTP-BZJL-3545-1	.035 - .045 (0.9 - 1.2 mm)	10.25" (260 mm)	Jump Liner	
	WTP-BZJL-45116-1	.045 - 1/16 (1.2 - 1.6 mm)	10.25" (260 mm)	Jump Liner	
<p>Dimensions: 833 [21.16] length, <math>\phi</math>.315 [8.00] outer diameter, <math>\phi</math>.226 [5.74] inner diameter.</p>	WTP-BZJL-45116-2	.045 - 1/16 (1.2 - 1.6 mm)	7.75" (197 mm)	Jump Liner (no jacket)	

Please inspect and verify your Binzel® collet design prior to ordering

## LINCOLN ELECTRIC® REPLACEMENT LINERS *Liners for Ferrous Wire*

Liner Collet Detail	Part #	Wire Size Range	Length	Liner Style	OEM Part Numbers
<p>Dimensions: 1.415 [35.94] length, <math>\phi</math>.500 [12.70] outer diameter, <math>\phi</math>.290 [7.37] inner diameter.</p>	WTP-TWL-3545-6	.035 - .045 (0.9 - 1.2 mm)	6' (1.8 m)	Rear Load	KP45-3545-6
	WTP-TWL-3545-10	.035 - .045 (0.9 - 1.2 mm)	10' (3 m)	Rear Load	KP45-3545-15 (15')
	WTP-TWL-3545-15	.035 - .045 (0.9 - 1.2 mm)	15' (4.6 m)	Rear Load	KP45-3545-15
	WTP-TWL-3545-25	.035 - .045 (0.9 - 1.2 mm)	25' (7.6 m)	Rear Load	KP45-3545-25
	WTP-TWL-45116-4.5	.045 - 1/16 (1.2 - 1.6 mm)	4.5' (1.4 m)	Rear Load	N/A
	WTP-TWL-45116-6	.045 - 1/16 (1.2 - 1.6 mm)	6' (1.8 m)	Rear Load	N/A
	WTP-TWL-45116-10	.045 - 1/16 (1.2 - 1.6 mm)	10' (3 m)	Rear Load	KP45-116-15 (15')
	WTP-TWL-45116-15	.045 - 1/16 (1.2 - 1.6 mm)	15' (4.6 m)	Rear Load	KP45-116-15
	WTP-TWL-45116-25	.045 - 1/16 (1.2 - 1.6 mm)	25' (7.6 m)	Rear Load	KP45-116-25
	WTP-TWL-564-6	5/64 (2 mm)	6' (1.8 m)	Rear Load	N/A
	WTP-TWL-564-10	5/64 (2 mm)	10' (3 m)	Rear Load	KP45H-332-15 (15')
	WTP-TWL-564-15	5/64 (2 mm)	15' (4.6 m)	Rear Load	KP45H-332-15
	WTP-TWL-564-25	5/64 (2 mm)	25' (7.6 m)	Rear Load	KP45H-332-25
	WTP-TWL-332-6	3/32 (2.4 mm)	6' (1.8 m)	Rear Load	N/A
	WTP-TWL-332-10	3/32 (2.4 mm)	10' (3 m)	Rear Load	KP45H-332-15 (15')
WTP-TWL-332-15	3/32 (2.4 mm)	15' (4.6 m)	Rear Load	KP45H-332-15	
WTP-TWL-332-25	3/32 (2.4 mm)	25' (7.6 m)	Rear Load	KP45H-332-25	
<p>Dimensions: 1.170 [29.72] length, <math>\phi</math>.375 [9.53] outer diameter, <math>\phi</math>.260 [6.60] inner diameter.</p>	WTP-TWL-3545-6-S4	.035 - .045 (0.9 - 1.2 mm)	6' (1.8 m)	Rear Load	N/A
	WTP-TWL-3545-15-S4	.035 - .045 (0.9 - 1.2 mm)	15' (4.6 m)	Rear Load	KP44-3545-15
	WTP-TWL-3545-25-S4	.035 - .045 (0.9 - 1.2 mm)	25' (7.6 m)	Rear Load	KP44-3545-25
	WTP-TWL-45116-15-S4	.045 - 1/16 (1.2 - 1.6 mm)	15' (4.6 m)	Rear Load	KP44-116-15
	WTP-TWL-45116-25-S4	.045 - 1/16 (1.2 - 1.6 mm)	25' (7.6 m)	Rear Load	KP44-116-25
	WTP-TWL-564-15-S4	5/64 (2 mm)	15' (4.6 m)	Rear Load	KP44-564-15
WTP-TWL-564-25-S4	5/64 (2 mm)	25' (7.6 m)	Rear Load	KP44-564-25	

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

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

Liner Collet Detail	Part #	Wire Size Range	Length	Liner Style	OEM Part Numbers
<p>Dimensions: <math>\phi .433</math> [11.00], .750 [19.05], .125 [3.18], .225 [5.72], <math>\phi .225</math> [5.72]</p>	WTP-LNJJL-3545	.035 - .045 (0.9 - 1.2 mm)	13.25" (337 mm)	Jump Liner (1/4" liner stick-out)	KP3364-1
	WTP-LNJJL-45116	.045 - 1/16 (1.2 - 1.6 mm)	13.25" (337 mm)	Jump Liner (1/4" liner stick-out)	KP3364-2
<p>Dimensions: <math>\phi .433</math> [11.00], .750 [19.05], .125 [3.18], .225 [5.72], <math>\phi .225</math> [5.72]</p>	WTP-LNJJL-3545-1	.035 - .045 (0.9 - 1.2 mm)	13.25" (337 mm)	Jump Liner	N/A
	WTP-LNJJL-45116-1	.045 - 1/16 (1.2 - 1.6 mm)	13.25" (337 mm)	Jump Liner	N/A
<p>Dimensions: .786 [19.97], <math>\phi .225</math> [5.72], <math>\phi .215</math> [5.46]</p>	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	—
<p>Dimensions: 1.415 [35.94], <math>\phi .500</math> [12.70], <math>\phi .290</math> [7.37]</p>	TLC-LN-FL	.035 - 1/16 (0.9 - 1.6 mm)	Sold Individually	Adapter for Lincoln Electric® Front Load Liners	KP45 Style Collet

## OTC® REPLACEMENT LINERS *Liners for Ferrous Wire*

Liner Collet Detail	Part #	Wire Size Range	Length	Liner Style	OEM Part Numbers
<p>Dimensions: .595 [15.11], <math>\phi .315</math> [8.00], <math>\phi .242</math> [6.15]</p>	WTP-OTL-3545-6	.035 - .045 (0.9 - 1.2 mm)	6' (1.8 m)	Rear Load	N/A
	WTP-OTL-3545-10	.035 - .045 (0.9 - 1.2 mm)	10' (3 m)	Rear Load	U4170H02
	WTP-OTL-3545-15	.035 - .045 (0.9 - 1.2 mm)	15' (4.6 m)	Rear Load	U4535G01
	WTP-OTL-45116-6	.045 - 1/16 (1.2 - 1.6 mm)	6' (1.8 m)	Rear Load	N/A
	WTP-OTL-45116-10	.045 - 1/16 (1.2 - 1.6 mm)	10' (3 m)	Rear Load	U4173G04
	WTP-OTL-45116-15	.045 - 1/16 (1.2 - 1.6 mm)	15' (4.6 m)	Rear Load	U4537G01

## PANASONIC® REPLACEMENT LINERS *Liners for Ferrous Wire*

Liner Collet Detail	Part #	Wire Size Range	Length	Liner Style	OEM Part Numbers
<p>Dimensions: 1.068 [27.13], <math>\phi .392</math> [9.96]</p>	WTP-PNL-3545-6	.035 - .045 (0.9 - 1.2 mm)	6' (1.8 m)	Rear Load	S091, S121
	WTP-PNL-3545-10	.035 - .045 (0.9 - 1.2 mm)	10' (3 m)	Rear Load	TDT-00279 (S091) TDT-00262 (S121)
	WTP-PNL-3545-15	.035 - .045 (0.9 - 1.2 mm)	15' (4.6 m)	Rear Load	TDT-00280 (S091) TDT-00265 (S121)
	WTP-PNL-45116-6	.045 - 1/16 (1.2 - 1.6 mm)	6' (1.8 m)	Rear Load	S121, S161
	WTP-PNL-45116-10	.045 - 1/16 (1.2 - 1.6 mm)	10' (3 m)	Rear Load	TDT-00262 (S121) TDT-00263 (S161)
	WTP-PNL-45116-15	.045 - 1/16 (1.2 - 1.6 mm)	15' (4.6 m)	Rear Load	TDT-00265 (S121) TDT-00267 (S161)
	WTP-PNJL-3545-1	.035 - .045 (0.9 - 1.2 mm)	16" (406 mm)	Jump Liner	N/A
	WTP-PNJL-45116-1	.045 - 1/16 (1.2 - 1.6 mm)	16" (406 mm)	Jump Liner	N/A

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

Liner Collet Detail	Part #	Wire Size Range	Length	Liner Style	OEM Part Numbers
<p>Dimensions: .437 [11.10], .990 [25.15], <math>\phi .500</math> [12.70], <math>\phi .273</math> [6.93]</p>	WTP-TRBRL-3545-6	.035 - .045 (0.9 - 1.2 mm)	6' (1.8 m)	Rear Load	415-30-6, 415-35-6
	WTP-TRBRL-3545-10	.035 - .045 (0.9 - 1.2 mm)	10' (3 m)	Rear Load	415-35-10
	WTP-TRBRL-3545-15	.035 - .045 (0.9 - 1.2 mm)	15' (4.6 m)	Rear Load	415-30-15, 415-35-15, L3A-15, 44115
	WTP-TRBRL-3545-25	.035 - .045 (0.9 - 1.2 mm)	25' (7.6 m)	Rear Load	415-30-25, 415-35-25, L3A-25, 44125
	WTP-TRBRL-45116-6	.045 - 1/16 (1.2 - 1.6 mm)	6' (1.8 m)	Rear Load	415-116-6
	WTP-TRBRL-45116-10	.045 - 1/16 (1.2 - 1.6 mm)	10' (3 m)	Rear Load	415-116-10, 44210
	WTP-TRBRL-45116-15	.045 - 1/16 (1.2 - 1.6 mm)	15' (4.6 m)	Rear Load	415-116-15, L4A-15, 44215
	WTP-TRBRL-45116-25	.045 - 1/16 (1.2 - 1.6 mm)	25' (7.6 m)	Rear Load	415-116-25, L4A-25, 44225
	WTP-TRBRL-564-6	5/64 (2 mm)	6' (1.8 m)	Rear Load	415-564-6 (D-Wound)
	WTP-TRBRL-564-10	5/64 (2 mm)	10' (3 m)	Rear Load	415-564-10 (D-Wound)
	WTP-TRBRL-564-15	5/64 (2 mm)	15' (4.6 m)	Rear Load	415-564-15 (D-Wound), L6A-15, 1920356
	WTP-TRBRL-564-25	5/64 (2 mm)	25' (7.6 m)	Rear Load	415-564-25 (D-Wound), L6A-25, 1920357
	WTP-TRBRL-332-6	3/32 (2.4 mm)	6' (1.8 m)	Rear Load	415-332-6 (Flat Wound)
	WTP-TRBRL-332-10	3/32 (2.4 mm)	10' (3 m)	Rear Load	415-332-10 (Flat Wound)
	WTP-TRBRL-332-15	3/32 (2.4 mm)	15' (4.6 m)	Rear Load	415-332-15 (Flat Wound), L7A-15, 45415
	WTP-TRBRL-332-25	3/32 (2.4 mm)	25' (7.6 m)	Rear Load	415-332-25 (Flat Wound), L7A-25, 45425

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

## TREGASKISS®/BERNARD® REPLACEMENT LINERS (CONTINUED) *Liners for Ferrous Wire*

Liner Collet Detail	Part #	Wire Size Range	Length	Liner Style	OEM Part Numbers
	WTP-TRBRL-45116-15A	.045 - 1/16 (1.2 - 1.6 mm)	15' (4.6 m)	Rear Load, with Length Adjuster	L4A-15
	WTP-ELL-FL-3545-6	.035 - .045 (0. - 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	.035 - .045 (0.9 - 1.2 mm)	26" (660 mm)	Jump Liner	495-18-35
	WTP-TRJL-45116	.035 - .045 (0.9 - 1.2 mm)	26" (660 mm)	Jump Liner	495-18-116
	TLC-TRBR-FL	.035 - 1/16 (0.9 - 1.6 mm)	Sold Individually	Adapter for Tregaskiss®/Bernard® Front Load Liners	L3A/L4A Style Collet

## TREGASKISS®/BERNARD® REPLACEMENT LINERS *Polymer Liners for Aluminum/Non-Ferrous Wire*

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

## TWECO® REPLACEMENT LINERS *Liners for Ferrous Wire*

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

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