

## VIRTUALLY INDESTRUCTIBLE

### SPECS

#### Inner Armor

Protective inner armor – a brass alloy insert – guards against wear and extends nozzle life.

The cool-running Lightning<sup>®</sup> tapered-seat contact tip is designed to dissipate heat quickly through increased surface area, and maximize electrical conductivity.

Dual start-point threads allow re-seating of the tip when wire wear begins to affect performance. Just rotate the tip counter-clockwise 180° to a new wear-point and double the life of the contact tip.

Insulated aircraft aluminum protects the 650 AMP capacity gooseneck.

#### Hard Body

High-strength plastic handle is engineered with special impact additives and reinforcing ribs, making it virtually indestructible. This solid construction puts Lightning<sup>®</sup> in a class of its own.

**Lifetime Warranty on handle and trigger switch.**

#### Defensive Shield

The secret behind Lightning<sup>®</sup>'s super tough cable is electron-beam accelerators that modify and strengthen the outer cover. This protective shield guards against tearing, stretching and abrasion.

Inner tubing, made of Hytrel<sup>®</sup>,\* is kink and impact resistant for smooth and reliable wire feed.

Copper strand-count and gauge is optimized for each cable's amperage rating, resulting in a perfect blend of flexibility and strength.

#### Plug-and-Play

Lightning<sup>®</sup> is ready to work right out of the box with most popular welding systems. Components are designed for quick, easy switch-outs.

\*Hytrel<sup>®</sup> is manufactured by DuPont<sup>™</sup> and is a trademark of DuPont. American Torch Tip Company is in no way affiliated with DuPont.



#### Type

Semi-automatic  
Air-cooled MIG

#### Amperage

250, 350, 450, 550

#### Cable Length

5' – 25'

#### Gooseneck

180°, 22°, 45°, 60°

#### Wire Size

.030 – .052  
1/16" – 5/64"

#### Compatibility

Compatible with a complete range of welding machines and wire feeders

#### Lifetime Warranty

Handle and trigger switch have a Lifetime Warranty

More information, contact tips, nozzles, and gun part numbers – page 2

## Lightning® Nozzle Selector Chart (slip-on)

Standard Duty Nozzle Part #	Bore/Material	O.D. / Length	Tip Location
63-2138	3/8" Copper	.938" / 2.75"	Flush
64-2950	1/2" Brass	.938" / 2.63"	1/8" Stick out
63-2950B	1/2" Brass	.938" / 2.88"	1/8" Recess
63-2150	1/2" Copper	.938" / 2.88"	1/8" Recess
63-2762	5/8" Copper	.938" / 2.51"	1/4" Stick out
63-2662	5/8" Copper	.938" / 2.63"	1/8" Stick out
63-2162	5/8" Copper	.938" / 2.88"	1/8" Recess
63-2175	3/4" Copper	.938" / 2.88"	1/8" Recess
Heavy Duty Nozzle Part #	Bore/Material	O.D. / Length	Tip Location
65-2550	1/2" Copper	1.062" / 2.88"	1/8" Recess
65-2662	5/8" Copper	1.062" / 2.63"	1/8" Stick out
65-2362	5/8" Brass	1.062" / 2.63"	1/8" Stick out
64-2962	5/8" Copper	1.062" / 2.75"	Flush
65-2862	5/8" Brass	1.062" / 2.75"	Flush
63-2362	5/8" Brass	1.062" / 2.88"	1/8" Recess
65-2562	5/8" Copper	1.062" / 2.88"	1/8" Recess
64-2562	5/8" Copper	1.062" / 3.00"	1/4" Recess
65-2575	3/4" Copper	1.062" / 2.88"	1/8" Recess
65-2375	3/4" Brass	1.062" / 2.88"	1/8" Recess
64-2575	3/4" Copper	1.062" / 3.00"	1/4" Recess
64-2387	7/8" Brass	1.062" / 3.00"	1/4" Recess
65-2562-T *	5/8" Copper	1.062" / 2.78"	1/8" Tip Recess

\* Threaded versions available for all nozzles - add "T" to part #

## Amperage Ratings (duty cycle)

Model #	100% Duty Cycle		60% Duty Cycle	
	Co2	Mixed Gas	Co2	Mixed Gas
250	200	120	300	250
350	350	200	400	350
450	450	300	525	450
550	550	350	650	550

## MIG Gun Part Numbering System

LIGHTNING HANDLE	SWIVEL	POWER PIN	GUN MODEL	CABLE LENGTH	WIRE SIZE
L - Lightning®	S (optional)	M - Miller LN - Lincoln E - Euro T - Tweco 5T - Tweco #5 P - Panasonic B - Bernard H - Hitachi	20 - 250 amp 30 - 350 amp 40 - 450 amp 50 - 550 amp	5 - 5 feet 10 - 10 feet 12 - 12 feet 15 - 15 feet 20 - 20 feet 25 - 25 feet	30 - .030" 35 - .035" 40 - .040" 45 - .045" 52 - .052" 116 - 1/16" 332 - 3/32" 364 - 3/64" al 564 - 5/64"
<b>L</b>	<b>S</b>	<b>T</b>	<b>40</b>	<b>15 - 45</b>	

## Lightning Contact Tips

Part #	Heavy Duty Tip - Size
63-1130	Contact Tip HD .030 pk 10
63-1135	Contact Tip HD .035 pk 10
63-1135-40	Contact Tip HD .035 / .040 I.D. pk 10
63-1138	Contact Tip .030 Pk 10 Robotic
63-1140	Contact Tip HD .040 pk 10
63-1145	Contact Tip HD .045 pk 10
63-1147	Contact Tip HD 3/64" al pk 10
63-1152	Contact Tip HD .052 pk 10
63-1162	Contact Tip HD 1/16" pk 10
63-1168	Contact Tip HD .068 / .078 I.D. pk 10
63-1172	Contact Tip HD .072 pk 10 SPECIAL
63-1178	Contact Tip HD 5/64" pk 10
63-1193	Contact Tip HD 3/32" pk 10
Part #	Tapered Tip
63-12XX	XX = use suffix from chart above
Part #	CZ Tip (Chromium Zirconium)
63-13XX	XX = use suffix from chart above
Part #	Extra Heavy Duty Tip
65-11XX **	XX = use suffix from chart above

## Lightning Retaining Heads / Diffusers

Part #	Description
65-3103 **	Retaining Head for Extra Heavy Duty
63-3104	Nozzle Retainer (25)
63-3103	Retaining Head / Diffuser L
63-3103-2	Retaining Head / Diffuser L
63-3116	Thread-on Retaining Head HD
63-3402	Retaining Ring
63-3301	O-Ring Orange 016

\*\* These components must be used together

**If you don't see what you're looking for, please call us. We offer a wide variety of consumables.**