

VIRTUALLY INDESTRUCTIBLE

SPECS

Inner Armor

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

The cool-running Lightning® 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® in a class of its own.

Lifetime Warranty on handle and trigger switch.

Defensive Shield

The secret behind Lightning®'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®,* 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® is ready to work right out of the box with most popular welding systems. Components are designed for quick, easy switch-outs.

*Hytrel® is manufactured by DuPont™ 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 Life-
time Warranty

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

Lightning® LARGE CURVE MIG



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
LC - Large Curve	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"
LC	S	T	40	15 - 45	

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 T/L
63-3103-2	Retaining Head T/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 at 800-342-8477.