

QUICK SPECS

DUTY CYCLE RATING

100%: 350 AMP w/ Mixed Gases

100%: 500 AMP w/ CO₂

60%: 500 AMP w/ Mixed Gases

60%: 650 AMP w/ CO₂

PROCESSES

MIG (GMAW) Welding

COMPATIBLE ROBOTS

ABB®, OTC Daihen®, FANUC®,

KUKA®, Motoman®, Panasonic®

KNL-360° KNOW NO LIMITS



KNL-360°
KNOW NO LIMITS

ANTI-SEIZE ROTATION CABLE

Features & Benefits

Product Shown Without Insulator

Bigger Rotational Surface Area & Silver-Plated Spring

Silver plated springs, and large conical surfaces, allow for superior electrical flow and conductivity.

More Robust Joint

For better heat dissipation.

Under Constant Pressure

Rotating contact surfaces under constant pressure in order to stay connected and eliminate amperage and voltage jumps.

Got Grease?

With built-in pockets our conical rotating surfaces can be packed with more grease for a longer lasting, smoother rotating joint.

Free Of Cable Strain

Significantly increase your cable life with torsion free cable. You eliminate the concern of accelerating cable wear while rotating on the sixth axis.

Infinite Rotation

Our Infinite rotation cable and joint allows for ease of programing. Reduce your weld cycle times with no need for reorientation of the cable on the sixth axis. There are no wasted air moves; which allows you to create the most efficient weld path possible. All while the cable remains torsion free.

Replacement Cable Option

TA3 Compatible with Tregaskiss †



KNL-360°

Competitor

KNL CABLES

Robot Brand	Robot Model	Part #	LSR Replacement
KUKA®	KR 5 arc HW	64-CK023	58CK023-KNL
	KR 16 arc HW	64-CK030	58CK030-KNL
	KR 16 L8 HW	64-SK027	58SK027-KNL
Motoman®	EA1400 XRC	64-CM016	58CM016-KNL
	EA1900 XRC	64-CM017	58CM017-KNL
	EA1400N, SSA2000, MA1400, VA1400	64-CM001	58CM001-KNL
	MA1440, AR1440, MH12	64-CM035	58CM035-KNL
	EA1900N	64-CM002	58CM002-KNL
	MA2010, AR2010	64-CM038	58CM038-KNL
	MA3100, MA3120	64-CM031	58CM031-KNL
	MH24, AR1730	64-CM039	58CM039-KNL
ABB®	IRB1600ID, IRB1520ID	64-SA024	58SA024-KNL
	IRB2600ID-15/1.85	64-SA028	58SA028-KNL
	IRB2600ID-8/2.00	64-SA029	58SA029-KNL
	IRB1660ID	64-SA030	58SA030-KNL
FANUC®	100iC, 100iC-12	64-SF005	58SF005-KNL
	100iC-6L, 100iC-7L	64-SF007	58SF007-KNL
	100iC-8L	64-SF010	58SF010-KNL
	120iC	64-SF006	58SF006-KNL
	120iC-10L, 120iC-12L	64-SF008	58SF008-KNL
	M10iA-6L, M10iA-7L	64-SF007	58SF007-KNL
	100iD	64-SF011M 64-SF011L	58SF011M-KNL 58SF011L-KNL
	120iD	64-SF015M 64-SF015L	58SF015M-KNL 58SF015L-KNL

† American Torch Tip Company is in no way affiliated with the above-named manufacturer(s). References to the above-named machines, torches and numbers are for your convenience only. American Torch Tip is not necessarily authorized by the above-named manufacturer(s) to provide replacement parts. Most parts advertised for sale are made by, or for, American Torch Tip Company and other parts, as indicated, are original parts manufactured by the above-named OEM and are simply being resold by American Torch Tip Company.

Lightning® Nozzle Selector Chart (slip-on)

SD Nozzle Part #	Bore/Material	O.D. / Length	Tip Location
63-2138	3/8" Copper	.938" / 2.75"	Flush
63-2150	1/2" Copper	.938" / 2.88"	1/8" Recess
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
HD 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
63-2362	5/8" Brass	1.062" / 2.88"	1/8" Recess
65-2562	5/8" Copper	1.062" / 2.88"	1/8" Recess
65-2575	3/4" Copper	1.062" / 2.88"	1/8" Recess
64-2575	3/4" Copper	1.062" / 3.00"	1/4" Recess

Threaded versions available for all nozzles.
Add the letter "T" to the end of the part number.

Lightning® Retaining Heads / Diffusers

Part #	Description
65-3103-2	Retaining Head for Extra Heavy Duty
63-3103-2	Retaining Head T/L
65-3116	Thread-on Retaining Head, Extra HD
63-3116	Thread-on Retaining Head HD

Lightning® Contact Tip Selector Chart

Part #	Contact 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
63-1145-50	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 - Size
63-12XX	XX = use suffix from chart above
Part #	Heavy Duty Tip - Size
63-13XX	XX = use suffix from chart above
Part #	Extra Heavy Duty Tip - Size
65-11XX **	XX = use suffix from chart above

KNL-360° Parts Ordering System

KL Torch Model KL – KNL 360	L4 Power Pin † L4 – Lincoln 4R E – Euro LN – Lincoln M – Miller P – Panasonic T – Tweco #4 T5 – Tweco #5 O – OTC/Daihen	F1 - 45 - 422 - A Robot Model A1 – ABB 1520iD A2 – ABB 1600iD A3 – ABB1660iD A4 – ABB2600iD D1 – OTC Daihen AX-V 4 D2 – OTC Daihen AX-V 4L D3 – OTC Daihen All-B4, FD-B4 D4 – OTC Daihen All-B4L, FD-B4L F1 – FANUC 710iC/12L F2 – FANUC 100iC, 100iC/12L F3 – FANUC 120iC F4 – FANUC 100iC/6L, 100iC/12L F5 – FANUC 120iC/10L, 120iC/12L F6 – FANUC 100iC/8L F7 – FANUC 100iD, 100iD-12 F8 – FANUC 100iD-8L F9 – FANUC 100iD-10L F10 – FANUC 120iD K1 – KUKA KR5 HW K2 – KUKA KR16HW K3 – KUKA KR16 L8 HW M1 – Motoman EA1400, SSA2000 M2 – Motoman EA & MA 1900N M3 – Motoman MA1440, AR1440 M4 – Motoman MA2010, AR2010 M5 – Motoman MA3100 M6 – Motoman MA3120, AR3120 P1 – Panasonic TB1100/1400 P2 – Panasonic TB1800 P3 – Panasonic TM1400 P4 – Panasonic TM1800 P5 – Panasonic TM1600 P6 – Panasonic TM2000	45 WIRE SIZE 35 – .035" 45 – .045" 364 – 3/64" 52 – .052" 116 – 1/16"	422 Gooseneck 180 – 180° 422 – 22° 445 – 45° 460 – 60°	A Options A – Air Blast C – Clutch W – Wirebreak
--	--	--	--	---	---

† American Torch Tip Company is in no way affiliated with the above-named manufacturer(s).