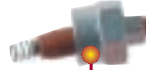


Ignition Harness

Application Information

PLATED STEEL NUT:

Steel nuts offer superior strength compared to aluminum nuts and reduce the potential for galling during installation



FAA/PMA APPROVED FOR:

- Franklin
- Teledyne Continental Motors
- Textron Lycoming

PERFORMANCE - Plus:

Using a tinned-copper, nickel plated braid shielding substantially reduces EMI and combined with a very flexible 19 strand conductor of stainless steel wire provides the ultimate in wire conductivity and ease of installation.

UNIQUE SPRING DESIGN:

Kelly Aerospace ignition harnesses incorporate a negative-pitch spring design (the tip of the coil spring extends inward) allowing the coil spring tip to lie flat against the spark plug electrode, providing 360° contact. Ignition energy is maximized and flashover is reduced to a minimum.

REPLACEABLE CONTACT SPRINGS:

Replacement springs are available separately saving you time and money when a field repair is necessary.

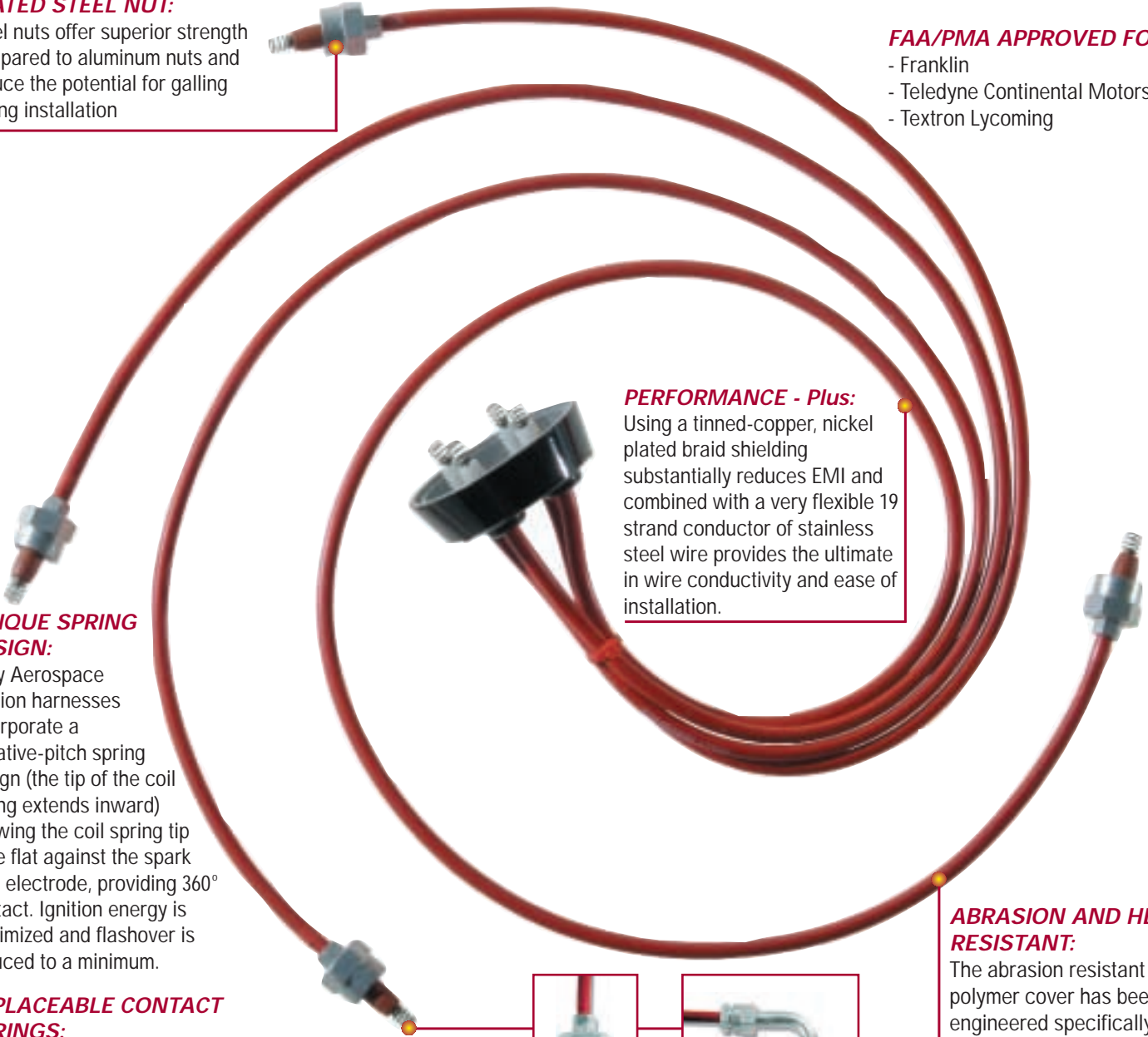
STRAIGHT AND CLOCKABLE 90 DEGREE STEEL ELBOW LEADS AVAILABLE:

You have the option of using straight or clockable 90° elbow leads to make the installation neat and easy.



ABRASION AND HEAT RESISTANT:

The abrasion resistant red polymer cover has been engineered specifically for the high-temperature environment of reciprocating engines.





PART NUMBERING SYSTEM and CROSS REFERENCE: The Kelly Aerospace part numbering system is “user Friendly” for quickly cross-referencing to both Champion and Unison Harnesses. Our “KA1” prefix is equivalent to the Champion “CH1” or the Unison “M” with the balance of the part number remaining the same. Add the suffix “E” to the part number to designate the 90 degree steel elbow terminations whenever ordering an “Elbow” harness. (EXAMPLE: KA12121E).

Ignition Harness - Franklin Engines:

Engine	Engine Model	Magneto	5/8" x 24 Spark Plug Termination	3/4" x 20 Spark Plug Termination
NOTE: All Kelly Aerospace Harnesses are available with elbow “swivel” terminations. Part numbers for the elbow style harnesses are the same with the addition of an “E” suffix.				
6A4-150	B3, B31, B4	Eisemann LA-6	KA17002	KA17001
6A4-165	B3, B4	Eisemann LA-6	KA17002	KA17001

Ignition Harness - Lycoming Engines:

Engine	Engine Model	Magneto	5/8" x 24 Spark Plug Termination	3/4" x 20 Spark Plug Termination
NOTE: All Kelly Aerospace Harnesses are available with elbow “swivel” terminations. Part numbers for the elbow style harnesses are the same with the addition of an “E” suffix.				
O-235	C1, C1A, C1B, C1C, C2A, C2C, E1, E1B, E2A, F1, F1B, F2A, G1, G1B, G2A, H2C, J2A, K2A, K2C, L2A, L2C, M1, M2C, M3C, N2A, N2C, P1, P2A, P2C, P3C	S4-20, S4-200	KA12364	KA12360
O-235	C2B, E2B, F2B, G2B, J2B, K2B	S4-1200	KA12365	KA12235
O-235	C2B, E2B, F2B, G2B, J2B, K2B	4200, 4300	KA14001	KA12508
O-290	D, D2, D2A, D2B, D2C	S4-20, S4-200	KA12364	KA12360
O-290	D2, D2B	4200, 4300	KA14001	KA12508
O-290	D, D2, D2B, D2C	4200, 4300	KA14004	KA12508
AEIO-320	E1A, E1B, E2A, E2B	S4-20, S4-200	KA12364	KA12360
AEIO-320	E1A, E1B, E2A, E2B	4200, 4300	KA14001	KA12508
AIO-320	A1A, A1B, A2A, A2B, B1B, C1B	S4-1200	KA12365	KA12235
AIO-320	A1A, A1B, A2A, A2B, B1B, C1B	4200, 4300	KA14001	KA12508
IO-320	A1A, A2A, B1A, B1B, B1C, B2A, C1A, C1B, E1A, E1B, E2A, E2B, F1A	S4-20, S4-200	KA12364	KA12360
IO-320	B1A, B2A, C1A	S4-20, S4-200	KA12112	KA12360
IO-320	B1D, B1E, D1A, D1B, D1C	S4-1200	KA12365	KA12235
IO-320	B1D, B1E, D1A, D1B, D1C	4200, 4300	KA14001	KA12508
IO-320	E2A	4200, 4300	KA14004	KA12508
LIO-320	B1A, C1A	S4-20, S4-200	KA12364	KA12360
LIO-320	B1A, C1A	S4-1200	KA12365	KA12235
O-320	A1A, A1B, A2A, A2B, A2C, A2D, A3A, A3B, A3C, B1A, B1B, B2A, B2B, B2C, B3A, B3B, B3C, C1A, C1B, C2A, C2B, C2C, C3A, C3B, C3C, D1A, D1B, D1D, D2A, D2B, D2G, D2H, D2J, D3G, E1A, E1B, E2A, E2B, E2D, E2G, E2H, E3H	S4-20, S4-200	KA12364	KA12360
O-320	B1A, B1B, B2B, B3A, B3B	S4-20, S4-200	KA12112	KA12360
O-320	D1C, D1F, D2C, D2F, E1C, E1F, E1J, E2C, E2F	S4-1200	KA12365	KA12235
O-320	A2A, A2B, A2C, A3A, A3B, A3C, B3C, D1A, D2A, D2B, E2B	4200, 4300	KA14004	KA12508
O-320	D1C, D1F, D2C, D2F, E1C, E1F, E1J, E2C, E2F	4200, 4300	KA14001	KA12508
O-340	A1A, A2A, B1A	S4-20, S4-200	KA12364	KA12360
O-340	A1A, A2A	4200, 4300	KA14004	KA12508
AEIO-360	A1A, A1D, A1E, A2A, B1B, B4A, H1A	S4-20, S4-200	KA12364	KA12360
AEIO-360	A1B, A1B6, A2B, B1F, B1F6, B1G6, B2F	S4-1200	KA12365	KA12235
AEIO-360	A1B, A1B6, A2B, B1F, B1F6, B1G6, B2F	4200, 4300	KA14001	KA12508

Ignition Harness - Lycoming Engines (Continued):

Engine	Engine Model	Magneto	5/8" x 24 Spark Plug Termination	3/4" x 20 Spark Plug Termination
NOTE: All Kelly Aerospace Harnesses are available with elbow "swivel" terminations. Part numbers for the elbow style harnesses are the same with the addition of an "E" suffix.				
AIO-360	A1A, A1B, A2A, A2B, B1B	S4-1200	KA12365	KA12235
AIO-360	A1A, A1B, A2A, A2B, B1B	4200, 4300	KA14001	KA12508
HIO-360	A1A, B1A, B1B, C1A	S4-20, S4-200	KA12364	KA12360
HIO-360	C1B, D1A	S4-1200	KA12365	KA12235
HIO-360	C1B, D1A	4200, 4300	KA14001	KA12508
HIO-360	B1A	4200, 4300	KA14004	
HO-360	A1A, B1A, B1B	S4-20, S4-200	KA12364	KA12360
HO-360	A1A	4200, 4300	KA14004	
IO-360	A1A, A1D, A2A, B1A, B1B, B1C, B1D, B4A, C1A, K1A	S4-20, S4-200	KA12364	KA12360
IO-360	A1B, A1B6, A1C, A1D6, A2B, A2C, B1E, B1F, B2E, B2F, B2F6, C1B, C1C, C1C6, D1A, E1A, F1A	S4-1200	KA12365	KA12235
IO-360	C1E6	S4-1200	KA12423	KA12616
IO-360	A1B, A1B6, A1C, A1D6, A2B, A2C, B1E, B1F, B2E, B1F, B2E, B2F, B2F6, C1B, C1C, C1C6, E1A, F1A	4200, 4300	KA14001	KA12508
IO-360	A1C, A2B, A2C, B2E, C1B, C1C, D1A	4200, 4300	KA14002	KA12508
IO-360	B1A, B1B, B1D,	4200, 4300	KA14004	
IVO-360	A1A	S4-20, S4-200	KA12364	KA14033
IVO-360	A1A	S4-20, S4-200	KA12364	KA12360
LIO-360	C1E6	S4-1200	KA12365	KA12235
LIO-360	C1E6	S4-1200	KA12423	KA12616
LIO-360	C1E6	4200, 4300	KA14001	KA12508
O-360	A1A, A1C, A1D, A1H, A2A, A2D, A2E, A2H, A3A, A3D, A4A, A4D, A4J, A4K, A4M, A4N, B1A, B1B, B2A, B2B, C1A, C1C, C2E, D1A, D2A, D2B, F1A6, G1A6,	S4-20, S4-200	KA12364	KA12360
O-360	A1F, A1F6, A1G, A1G6, A2F, A2G, A4G, C1F	S4-1200	KA12365	KA12235
O-360	A1F, A1F6, A2G, A1G6, A2F, A2G, A4G, C1F	4200, 4300	KA14001	KA12508
O-360	A1A, A1D, A2A, A2D, D2A, D2B	4200, 4300	KA14004	
VO-360	A1A, A1B, B1A	S4-20, S4-200	KA12364	KA12360
VO-360	A1A, A1B, B1A	S4-20, S4-200	KA12364	KA14033
GO-435	C2A2, C2B2, C2B2-6	S6-20, S6-200	KA12474	
TVO-435	F1A	S6-20, S6-200	KA12712	KA12865
TVO-435	A1A, B1A, D1B, G1B	S6-1200	KA12709	KA12447
VO-435	A1D, A1E, A1F	S6-20, S6-200	KA12709	KA12447
VO-435	B1A	S6-20, S6-200	KA12712	KA12865
GO-480	G1J6	S6-1200	KA12742	
GSO-480	B1J6	S6-1200	KA12745	
GSO-480	B1A6, B1B6, B1C6, B1E6, B1F6, B1G6, B2C6, B2D6, B2G6, B2H6	S6-20, S6-200	KA12854	
IGSO-480	A1D6, A1E6	S6-1200	KA12854	
IGSO-480	A1A6	S6-20, S6-200	KA12244	KA12247
AEIO-540	D4A5	S6-1200	KA12154	KA12157
AEIO-540	D4A5	S6-20, S6-200	KA12121	KA12120
IGSO-540	A1D, A1E, A1F, B1C	S6-1200	KA12259	
IO-540	A1A5, B1A5, B1B5, B1C5, C1B5, C1C5, C2C, C4B5, D4A5, E1A5, G1A5, K1C5, K1D5, N1A5, P1A5, R1A5, S1A5	S6-20, S6-200	KA12121	KA12120
IO-540	A1A5, B1A5, B1B5, B1C5, C1B5, C1C5, C2C, C4B5, D4A5, E1A5, G1A5, K1C5, K1D5, N1A5, P1A5, R1A5, S1A5	S6-1200	KA12154	KA12157
O-540	A1A, A1A5, A1B5, A1C5, A1D, A1D5, A2B, A3D5, A4A5, A4B5, A4C5, A4D5, B1A5, B1B5, B2A5, B2B5, B4A5, B4B5, D1A5, E4A5, E4B5, F1A5, F1B5, H1A5, H2A5	S6-20, S6-200	KA12121	KA12120
O-540	A1A, A1A5, A1B5, A1C5, A1D, A1D5, A2B, A3D5, A4A5, A4B5, A4C5, A4D5, B1A5, B1B5, B2A5, B2B5, B4A5, B4B5, D1A5, E4A5, E4B5, F1A5, F1B5, H1A5, H2A5	S6-1200	KA12154	KA12157
TIO-540	A1A, A1B, A2A, A2B	S6-1200		KA12037
TIO-540	C1A	S6-1200	KA12790	KA12851
TIO-540	C1A	S6-1200	KA12154	KA12157
TIO-540	C1A	S6-20, S6-200	KA12121	KA12120
TIVO-540	A2A	S6-1200	KA12709	KA12447
VO-540	A1A, B1A, B1B, B1D, B2D, C1C3	S6-1200	KA12709	KA12447
TIGO-541	E1A	S6-1200		KA12890
TIO-541	E1A4, E1B4, E1C4, E1D4, E1E4	S6-1200		KA12628
IO-720	A1B, B1B	S8-1200		KA17012

Ignition Harness - Teledyne Continental Motors:

Engine	Engine Model	Magneto	5/8" x 24 Spark Plug Termination	3/4" x 20 Spark Plug Termination
NOTE: All Kelly Aerospace Harnesses are available with elbow "swivel" terminations. Part numbers for the elbow style harnesses are the same with the addition of an "E" suffix.				
A-50		Slick 400 Series	KA17005	
A-65		Slick 400 Series	KA17005	
A-75		Slick 400 Series	KA17005	
A-80		Slick 400 Series	KA17005	
C-75	12, 15	Eisemann LA-4	KA17008	KA17007
C-75		Slick 400 Series	KA17005	
C-75	8	Slick 400 Series	KA17005	
C-75	12, 15	S4-20, S4-200	KA12007	KA17006
C-75	12, 15	4200, 4300	KA11780	KA17011
C-85	12, 12FJ, 14, 15	Eisemann LA-4	KA17008	KA17007
C-85	12, 12FJ, 14, 15	S4-20, S4-200	KA12007	KA17006
C-85	12, 12FJ, 14, 15	4200, 4300	KA11780	KA17011
C-90	12, 14, 16, 16F	Eisemann LA-4	KA17007	KA17008
C-90	12, 14, 16, 16F	S4-20, S4-200	KA12007	KA17006
C-90	12, 14, 16, 16F	4200, 4300	KA11780	KA17011
C-125	2	S6-20, S6-200	KA12130	
C-125	ALL	6200, 6300	KA12932	
C-145	2, 2H	S6-20, S6-200	KA12130	
C-145	ALL	6200, 6300	KA12932	
E-165	2, 3, 4	S6-20, S6-200	KA12176	KA12339
E-185	1, 2, 3, 5, 8, 9, 10, 11	S6-20, S6-200	KA12176	KA12339
O-200	A, B, C	Eisemann LA-4	KA17008	KA17007
O-200	A, B, C	S4-20, S4-200	KA12007	KA17006
O-200	A, B, C	4200, 4300	KA11780	KA17011
E-225	2, 4, 8, 9	S6-20, S6-200	KA12176	KA12339
O-300	A, B, C, D, E	Slick 600 Series	KA11884	KA12318
O-300	A, B, C, D, E	S6-20, S6-200	KA12130	
O-300	A, B, C, D, E	6200, 6300	KA12932	
IO-360	A, C, CB, D, DB, G, GB, H, HB, J, JB, K, KB	S6-20, S6-200		KA12015
IO-360	C, D, G	6200, 6300		KA12778
LTSIO-360	E, EB, KB	S6-20, S6-200		KA12015
TSIO-360	A, AB, B, C, CB, D, DB, E, EB, F, FB, GB, H, HB, JB, KB, LB, MB	S6-20, S6-200		KA12015
TSIO-360	A, B	6200, 6300		KA12778
GIO-470	A	S6-20, S6-200	KA11978	KA11730
IO-470	A, C, D, E, F, G, H, J, K, L, LO, M, N, P, R, S, T, U, V, VO	Slick 600 Series	KA11878	KA11480
IO-470	C, D, E, F, G, H, L, M, N, P, R, S, U, V	S6-20, S6-200	KA11978	KA11730
IO-470	F, J, K, N, S	S6-1200		KA12216
IO-470	F, J, K, N, S	S6-1200		KA11740
IO-470	A, C, D, E, F, H, J, K, L, LO, M, N, P, R, S, T, U, V, VO	6200, 6300	KA12828	KA12381
O-470	A, B, BC1, E, G, GC1, H, J, K, KC1, L, LC1, M, MC1, N, P, R, S, U	Slick 600 Series	KA11878	KA11480
O-470	A, B, BC1, E, G, GC1, H, J, K, KC1, L, LC1, M, MC1, N, P, R, S, U	6200, 6300	KA12828	KA12381
O-470	A, B, E, M, P, R	S6-20, S6-200	KA11978	KA11730
O-470	R, S, U	S6-1200		KA11740
O-470	R, S, U	S6-1200		KA12216
TSIO-470	B, C, D	S6-20, S6-200	KA11978	KA11730
GTSIO-520	C, D, F, H, K, L, M, N	S6-1200		KA11950
IO-520	A, B, BA, BB, C, CB, D, E, J, K, L, M, MB, N, NB	Slick 600 Series	KA11878	KA11480
IO-520	B, BB, E	S6-20, S6-200	KA11978	KA11730
IO-520	A, BA, BB, C, CB, D, F, J, K, L,	S6-1200		KA12216
IO-520	A, B, BA, BB, C, CB, D, F, J, K, L,	S6-1200		KA11740
IO-520	A, B, BA, BB, C, CB, D, E, J, K, L, M, MB, N, NB	6200, 6300	KA12828	KA12381
LTSIO-520	AE	S6-1200		KA11740
LTSIO-520	AE	S6-1200		KA12216
TSIO-520	AE, AF, C, D, DB, G, H, J, JB, K, KB, L, LB, M, N, NB, P, R, T, UB, WB	S6-1200		KA11740
TSIO-520	AE, AF, C, DB, G, H, J, JB, K, KB, L, LB, M, N, NB, P, R, T, UB, WB	S6-1200		KA12216
TSIO-520	A, B, BB, BE, C, CE, D, DB, E, EB, G, H, J, JB, K, KB, L, LB, M, N, NB, P, R, T, U, UB, VB, WB	Slick 600 Series	KA11878	KA11480
TSIO-520	A, B, BB, C, CE, D, DB, E, EB, G, H, J, JB, K, KB, L, LB, M, N, NB, P, R, T, U, UB, VB, WB	6200, 6300	KA12828	KA12381

Ignition Harness - Teledyne Continental Motors (Continued):

Engine	Engine Model	Magneto	5/8" x 24 Spark Plug Termination	3/4" x 20 Spark Plug Termination
NOTE: All Kelly Aerospace Harnesses are available with elbow "swivel" terminations. Part numbers for the elbow style harnesses are the same with the addition of an "E" suffix.				
IO-550	A, F	S6-20, S6-200	KA11978	KA11730
IO-550	A, B, C, D, E, F, G	S6-1200		KA12216
IO-550	B, C, D, E, L	S6-1200		KA11740
IO-550	A, B, C, D	6200, 6300	KA12828	KA12381
TSIOL-550	B	S6-1200		KA12216
TSIOL-550	B	S6-1200		KA11740

Notes:

Magneto Type	Description
4200, 4300	Slick 4 Cylinder Magneto
6200, 6300	Slick 6 Cylinder Magneto
600	Slick 6 Cylinder Magneto using individual leads
S4-20, S4-200	TCM/Bendix 4 Cylinder Magneto
S4-1200	TCM/Bendix 4 Cylinder Magneto
S6-20, S6-200	TCM/Bendix 6 Cylinder Magneto
S6-1200	TCM/Bendix 6 Cylinder Magneto

- All mounting hardware is included with harnesses.
- Where applicable, all harnesses listed are FAA-PMA Approved for use on the engines listed.
- All application data contained in this brochure is for reference only.
- The Spark Plug Termination Column is in reference to the harness spark plug termination size, not the size of the wrench required to remove the spark plug.

EXTRA-DURABLE CLOCKABLE 90 DEGREE SWIVEL ELBOW SOLVES YOUR HARD-TO-FIT INSTALLATIONS:

Kelly's unique clockable steel elbow allows you to "point" the lead end in any direction (360°) without putting a strain or twist in the lead wire. Excellent for those tight installations and closely cowled engines where heat and accessibility are a problem.



Straight Lead Termination.

Eliminates wire damage due to tight bends at the plug. Just add an "E" to the end of the part number when ordering.



Clockable Swivel Elbow.

STRAIGHT LEAD TERMINATION:

Kelly's Straight Lead termination is economical and suitable for most installations. It features a durable steel nut and a hex ferrule insuring a "strainless" installation.

Magneto Backplate to Harness P/N - Cross Reference Chart

Harness Used:
KA17007,
KA17008.

Left Backplate Right Backplate

Eisemann LA-4

Harness Used:
KA12007, KA12112,
KA12360, KA12364,
KA14033, KA17006.

Left Backplate Right Backplate

**TCM/Bendix
S(C)4-20, S(C)4-200**

Harness Used:
KA17001,
KA17002.

Left Backplate Right Backplate

Eisemann LA-6

Harness Used:
KA11730, KA11978,
KA12015, KA12120.
KA12121, KA12130,
KA12176, KA12244,
KA12247, KA12339,
KA12474, KA12712,
KA12769, KA12772,
KA12854, KA12865.

Left Backplate Right Backplate

**TCM/Bendix
S(C)6-20, S(C)6-200**

Harness Used:
KA17005.

Left Backplate Right Backplate

Slick 400 Series

Harness Used:
KA12235, KA12365,
KA12423, KA12616.

Left Backplate Right Backplate

TCM/Bendix S4-1200

Harness Used:
KA11480, KA11878,
KA11884, KA12318.

Left Backplate Right Backplate

Slick 600 Series

Harness Used:
KA11740, KA11950,
KA12037, KA12154,
KA12157, KA12216,
KA12259, KA12447,
KA12628, KA12709,
KA12742, KA12745,
KA12790, KA12851,
KA12890.

Left Backplate Right Backplate

TCM/Bendix S6-1200

Harness Used:
KA11780, KA12508,
KA14001, KA14002,
KA14004, KA17011.

Left Backplate Right Backplate

Slick 4200, 4300 Series

Harness Used:
KA17012

Left Backplate Right Backplate

TCM/Bendix S8-1200

Harness Used:
KA12828, KA12381,
KA12778, KA12779,
KA12878, KA12932.

Left Backplate Right Backplate

Slick 6200, 6300 Series

