

# MAXIMUM SOLUTIONS

## Mill-Max Introduces Pre-Wired Spring-Loaded and Target Pins

*Precision interconnects with crimped on wires ready for use in cable and wiring applications*



Mill-Max introduces discrete pre-wired spring-loaded and target pins available in six unique styles. These wired pins are suitable for use in cable assemblies, pig tail wired devices, battery connections for chargers, and many other applications where a wire terminated, spring-loaded connection is required.

The introduction of discrete pre-wired pins is an addition to the Mill-Max pre-wired single and double row, .100" (2.54 mm) pitch spring-loaded and target connectors. The new single pin wired components give the designer the freedom to arrange the pins as needed, without the constraints of an off-the-shelf connector. With the task of wire crimping eliminated, manufacturing custom spring-loaded cables, connectors and other assemblies can be more efficient and cost effective. They can be especially useful when adapting cables and connectors to mate with existing systems or for building custom setups for test and development applications. Both the spring-loaded and target pins have press-fit features for mounting into housings, panels or printed circuit boards and include a shoulder that prohibits pin pull out due to stress on the wires. When assembling into insulators or boards, the wire is fed through the holes of the housing, pulled through until the press-fit feature engages the hole, and then pressed home on the shoulder to anchor the pin.

The wires are retained in the pins with a minimum retention of eight pounds using a secure, four-point crimp. UL1007 hook-up wire, 24 AWG, PVC insulation, is used for these products. There are six offerings, three spring-loaded and three target styles with options for wire color and length. See the table below for details. Both the spring-loaded and target pins are manufactured using precision machined components and are gold plated for excellent conductivity, corrosion resistance and durability. The spring-loaded pins are rated for a maximum current of 6.5 amps (5.2 amps, de-rated); 20 milliohms max contact resistance; 60 grams of force at half stroke; .055" (1.4 mm) max travel and a mechanical life of up to 1 million cycles. Complete performance specifications and technical details can be found on our website.

Part Number	Description	Part Number	Description
809-22-001-70-920001	Spring-loaded, 8" black wire	819-10-001-70-610001	Mating Target Contact, 8" black wire
809-22-001-70-920011	Spring-loaded, 12" black wire	819-10-001-70-610011	Mating Target Contact, 12" black wire
809-22-001-70-920012	Spring-loaded, 12" red wire	819-10-001-70-610012	Mating Target Contact, 12" red wire

Contact our technical services staff to discuss your application and how we may be able to address your needs.

For more information, please visit [www.mill-max.com/PR714](http://www.mill-max.com/PR714).

#### About Mill-Max

Mill-Max is the leading US manufacturer of machined interconnect components with a vertically integrated manufacturing facility headquartered at 190 Pine Hollow Rd., Oyster Bay, NY 11771. Its full product line includes spring-loaded connectors, SIP, DIP, PGA and BGA sockets, board-to-board interconnects and pin headers, surface mount and custom products, PCB pins and receptacles, solder terminals, wrapost receptacles and terminals. The company's complete manufacturing facility includes engineering, tooling, primary and secondary machining, stamping, plating, injection molding, and assembly.

