

# MAXIMUM SOLUTIONS

## Mill-Max Expands its Line of Solder Cup Spring-Loaded Pins



Mill-Max is proud to announce a new addition to its spring-loaded pin selection with the introduction of the [0973-0-15-20-77-14-11-0](#). This new offering has a solder cup designed to accept up to 20 AWG wire, has a maximum stroke of .080" (2,03 mm) and can be used at a minimum spacing of .100" (2,54 mm).

The shoulder and barb features are located and designed to allow easy and reliable assembly into connector housings. The terminating wires may be passed through a connector housing and soldered to the cup of the 0973. Once the soldering is complete the wires can now draw the 0973 spring pins into the housing and the spring pins can be secured with the press-fit. With the pins securely pressed into the housing, the shoulder acts as a stop, retaining the pins in the event the cable or wires are strained. The shoulder will also prevent push out of the spring pin if the plunger end is over compressed. These design features make the 0973 ideal for cable and bulkhead style connector assemblies.

The 0973 spring pin has a working travel of .040" (1,02 mm) and a maximum mechanical travel of .080" (2,03 mm). There is a hard stop incorporated to prevent over compression and minimize the risk of damage to the spring. The high retention force press-fit of the solder cup to the body of the spring pin insures the reliability of the component during soldering and assembly operations.

Gold-plated brass components and beryllium copper springs ensure the highest conductivity, corrosion resistance and durability. The spring-loaded plunger is suitable for mating with gold-plated PCB pads or Mill-Max target pins and connectors. For wire termination target pins consider Mill-Max [3024-0-01-15-00-00-03-0](#) and for connectors, see the single row [330-10-1XX-00-240000](#) and double row [430-10-2XX-00-240000](#).

For more information, please visit: [www.mill-max.com/PR665](http://www.mill-max.com/PR665).

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# SPRING-LOADED PINS

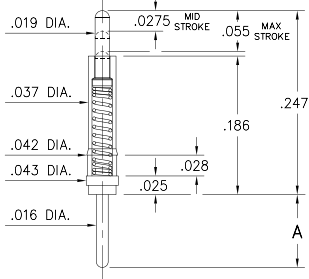
## DISCRETE SPRING-LOADED CONTACTS

### 0985

0985-X-15-20-71-14-11-0

Standard stroke

Solder mount in .019 min. mounting hole



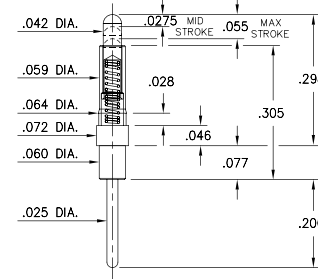
Basic Part Number	Length A
0985-0	.103
0985-1	.150
0985-2	.190

### 0922

0922-0-15-20-75-14-11-0

Standard stroke

Solder mount in .029 min. mounting hole

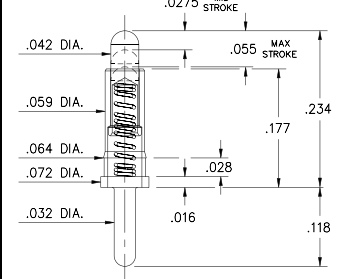


### 0956

0956-0-15-20-75-14-11-0

Standard stroke

Solder mount in .035 min. mounting hole

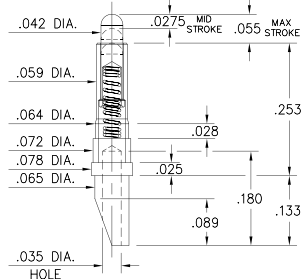


### 0933

0933-0-15-20-75-14-11-0

Standard stroke, Soldercup

Accepts wire sizes up to 24 AWG

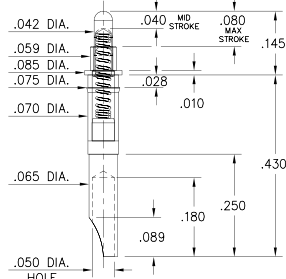


### 0973

0973-0-15-20-77-14-11-0

Long stroke, Soldercup

Accepts wire sizes up to 20 AWG

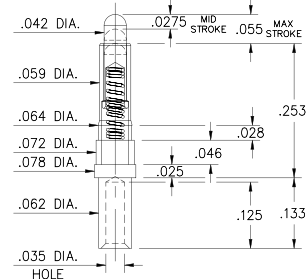


### 0962

0962-0-15-20-75-14-11-0

Standard stroke, Wire crimp termination

for wire sizes 24 AWG Max. / 28 AWG Min.



#### Material Specifications:

**Sleeve & Plunger Material:** Copper Alloy

**Spring Material:** Beryllium Copper

**Sleeve & Plunger Finish:** 20 μ" Gold over Nickel

**Spring Finish:** 10 μ" Gold over Nickel

**Dimensions:** Inches

**Tolerances On:** Lengths: ± .006

Diameters: ± .002

Angles: ± 2°



#### Mechanical & Electrical Specifications:

**Durability:** 1,000,000 cycles

**Current Rating:** 2A continuous, 3A peak

**Contact Resistance:** 20 mΩ max.

**Environmental Specifications:**

**Operating temperature range:** -55/+125° C

**71, 75, 77 Springs are not interchangeable**

Order Code: 09XX - X - 15 - 20 - **7X** - 14 - 11 - 0

Spring Number

Spring Number	Mid. Stroke	Max. Stroke	Force @ Mid. Stroke	Initial Force (Pre-Load)
71	.0275	.055	50 g	15 g
75	.0275	.055	60 g	25 g
77	.045	.090	60 g	25 g

