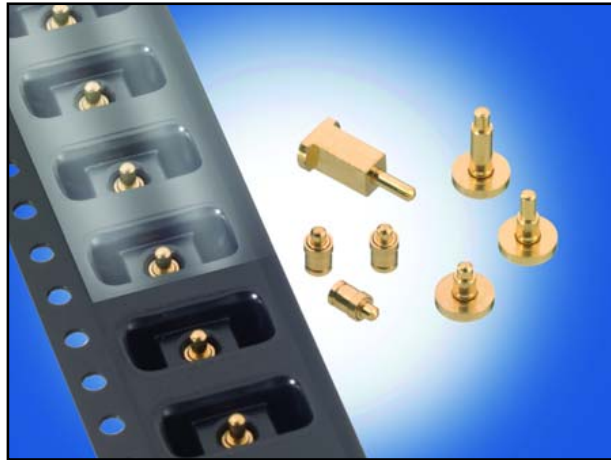


# MAX solutions

## New Mill-Max SMT Spring-Loaded Connector Products



Mill-Max is pleased to announce the development of several new SMT Spring-Loaded Connectors (SLCs). All are offered as discrete contacts and many are available in tape and reel packaging.

New Mill-Max part family 0910-0 and 0910-1 through -4 are discrete SLCs specifically designed for production tape and reel assembly.

Part 0967 is a horizontal mount SMT SLC designed for low-profile board to board interconnections.

New Mill-Max part family 0990-0 and 0990-1 through -4 and 0997-0 through -9 are discrete SLCs featuring a large base utilized for either increased PCB stability or assembly in non-PCB applications such as a face plate. These part families offer a range of application heights from .137" to .430" (3,48mm to 10,92mm.)

For further information visit: [mill-max.com/PR603](http://mill-max.com/PR603).

(12/09 -- 561, 603)

Mill-Max Mfg. Corp. • 190 Pine Hollow Road, Oyster Bay, NY 11771-0300  
516-922-6000 • Fax: 516-922-9253 • [www.mill-max.com](http://www.mill-max.com)



| <p><b>0900-0</b></p> <p><b>0900-0-00-00-00-00-11-0</b><br/>Short Stroke, Surface mount<br/>Lowest profile</p> | <p><b>0900-1⇒4</b></p> <table border="1"> <thead> <tr> <th>Basic Part Number</th> <th>Length A</th> </tr> </thead> <tbody> <tr> <td>0900-1</td> <td>.177</td> </tr> <tr> <td>0900-2</td> <td>.197</td> </tr> <tr> <td>0900-3</td> <td>.217</td> </tr> <tr> <td>0900-4</td> <td>.236</td> </tr> </tbody> </table> <p><b>0900-X-00-00-00-00-11-0</b><br/>Standard Stroke, Surface mount<br/>Low profile</p> | Basic Part Number | Length A | 0900-1 | .177 | 0900-2 | .197 | 0900-3 | .217 | 0900-4 | .236 | <p><b>0934</b></p> <p><b>0934-0-15-20-74-14-26-0</b><br/>Standard Stroke<br/>Surface mount</p> |
|---|---|-------------------|----------|--------|------|--------|------|--------|------|--------|------|--|
| Basic Part Number   | Length A  |                   |          |        |      |        |      |        |      |        |      |  |
| 0900-1  | .177  |                   |          |        |      |        |      |        |      |        |      |  |
| 0900-2  | .197  |                   |          |        |      |        |      |        |      |        |      |  |
| 0900-3  | .217  |                   |          |        |      |        |      |        |      |        |      |  |
| 0900-4  | .236  |                   |          |        |      |        |      |        |      |        |      |  |

| <p><b>0936</b></p> <p><b>0936-0-15-20-75-14-11-0</b><br/>Standard Stroke<br/>Surface mount</p> | <p><b>0928</b></p> <p><b>0928-0-15-20-77-14-11-0</b><br/>Long Stroke<br/>Surface mount</p> | <p><b>0907-0⇒9</b></p> <table border="1"> <thead> <tr> <th>Basic Part Number</th> <th>Length A</th> </tr> </thead> <tbody> <tr> <td>0907-0</td> <td>.255</td> </tr> <tr> <td>0907-1</td> <td>.275</td> </tr> <tr> <td>0907-2</td> <td>.295</td> </tr> <tr> <td>0907-3</td> <td>.315</td> </tr> <tr> <td>0907-4</td> <td>.335</td> </tr> <tr> <td>0907-5</td> <td>.350</td> </tr> <tr> <td>0907-6</td> <td>.370</td> </tr> <tr> <td>0907-7</td> <td>.390</td> </tr> <tr> <td>0907-8</td> <td>.410</td> </tr> <tr> <td>0907-9</td> <td>.430</td> </tr> </tbody> </table> <p><b>0907-X-15-20-75-14-11-0</b><br/>Standard Stroke, Surface mount<br/>High profile</p> | Basic Part Number | Length A | 0907-0 | .255 | 0907-1 | .275 | 0907-2 | .295 | 0907-3 | .315 | 0907-4 | .335 | 0907-5 | .350 | 0907-6 | .370 | 0907-7 | .390 | 0907-8 | .410 | 0907-9 | .430 |
|--|--|--|-------------------|----------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|
| Basic Part Number  | Length A   |  |                   |          |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
| 0907-0   | .255   |  |                   |          |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
| 0907-1   | .275   |  |                   |          |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
| 0907-2   | .295   |  |                   |          |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
| 0907-3   | .315   |  |                   |          |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
| 0907-4   | .335   |  |                   |          |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
| 0907-5   | .350   |  |                   |          |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
| 0907-6   | .370   |  |                   |          |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
| 0907-7   | .390   |  |                   |          |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
| 0907-8   | .410   |  |                   |          |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
| 0907-9   | .430   |  |                   |          |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |

|  |  |  |   |
|--|--|--|---|
| <p><b>0913</b></p> <p><b>0913-0-15-20-77-14-11-0</b><br/>Long Stroke<br/>Surface mount</p> | <p><b>0925</b></p> <p><b>0925-0-15-20-73-14-26-0</b><br/>Standard Stroke<br/>Surface mount</p> | <p><b>0927</b></p> <p><b>0927-0-15-20-75-14-11-0</b><br/>Standard Stroke<br/>Surface mount</p> | <p><b>0905</b></p> <p><b>0905-0-00-00-00-00-11-0</b><br/>Standard Stroke, Surface mount<br/>Highest Profile</p> |
|--|--|--|---|

**ORDER CODE: 09XX - X - 15 - 20 - 7X - 14 - XX - 0**

Spring Number ↗

**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  
**DIMENSION IN 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.

| SPRING NUMBER | Mid. STROKE | Max. STROKE | FORCE @ Mid. Stroke | Initial Force (Pre-load) |
|---------------|-------------|-------------|---------------------|--------------------------|
| 73            | .0275       | .055        | 60                  | 25                       |
| 74            | .0275       | .055        | 50                  | 15                       |
| 75            | .0275       | .055        | 60                  | 25                       |
| 77            | .045        | .090        | 60                  | 25                       |

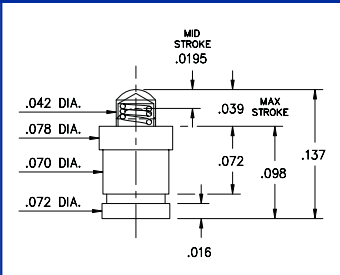
73, 74, 75, 77 Springs are not Interchangeable



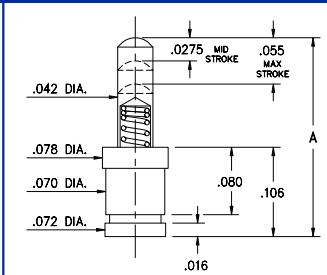
**SPRING-LOADED CONNECTORS**  
Discrete Spring-Loaded Contacts



**0910-0**      **0910-1⇒4**



**0910-0-57-20-76-14-11-0**  
Short Stroke, Surface mount  
Packaged on 16mm wide carrier tape: 1,500 parts per 13" reel.



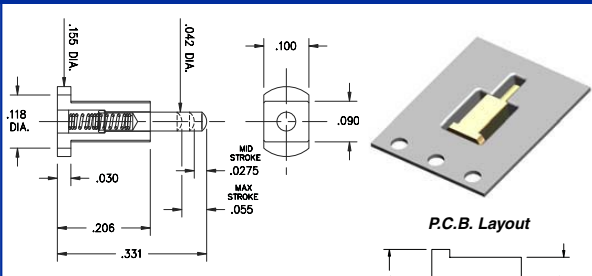
**0910-X-57-20-75-14-11-0**  
Standard Stroke, Surface mount  
Packaged on carrier tape.  
See chart for tape width and qty. per reel



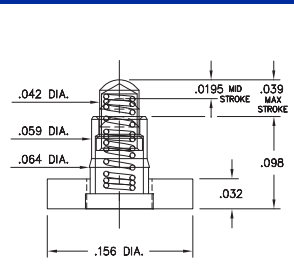
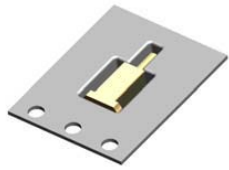
| Basic Part Number | Length A |
|-------------------|----------|
| 0910-1            | .177     |
| 0910-2            | .197     |
| 0910-3            | .217     |
| 0910-4            | .236     |

| Basic Part Number | Tape Width | Quantity per Reel |
|-------------------|------------|-------------------|
| 0910-1            | 16mm       | 1,500             |
| 0910-2            | 24mm       | 1,100             |
| 0910-3            | 24mm       | 1,100             |
| 0910-4            | 24mm       | 1,100             |

**0967**      **0990-0**

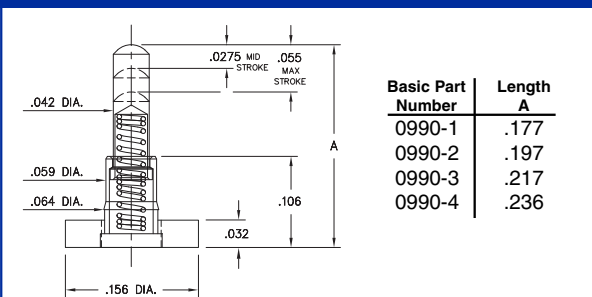


**0967-0-15-20-75-14-11-0**  
Standard Stroke, Horizontal Surface mount  
Also available on 16mm wide carrier tape: 2,200 parts per 13" reel.  
Order as: 0967-0-58-20-75-14-11-0



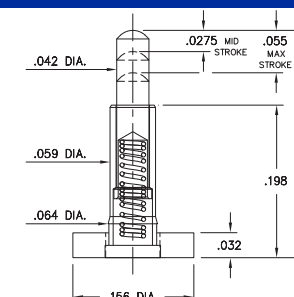
**0990-0-50-20-76-14-11-0**  
Short Stroke, Surface mount  
Large Base

**0990-1⇒4**      **0997-0⇒9**



| Basic Part Number | Length A |
|-------------------|----------|
| 0990-1            | .177     |
| 0990-2            | .197     |
| 0990-3            | .217     |
| 0990-4            | .236     |

**0990-X-50-20-75-14-11-0**  
Standard Stroke, Surface mount  
Large Base



| Basic Part Number | Length A |
|-------------------|----------|
| 0997-0            | .255     |
| 0997-1            | .275     |
| 0997-2            | .295     |
| 0997-3            | .315     |
| 0997-4            | .335     |
| 0997-5            | .350     |
| 0997-6            | .370     |
| 0997-7            | .390     |
| 0997-8            | .410     |
| 0997-9            | .430     |

**0997-X-50-20-75-14-11-0**  
Standard Stroke, Surface mount  
Large Base

**ORDER CODE: 09XX - X - XX - 20 - 7X - 14 - 11 - 0**

Spring Number ↗

**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
- DIMENSION IN 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.

| SPRING NUMBER | Mid. STROKE | Max. STROKE | FORCE @ Mid. Stroke | Initial Force (Pre-load) |
|---------------|-------------|-------------|---------------------|--------------------------|
| 75            | .0275       | .055        | 60                  | 25                       |
| 76            | .0195       | .039        | 60                  | 25                       |

75 & 76 Springs are not Interchangeable