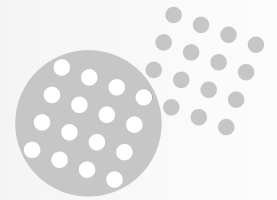


# SM/SC-M



## Size 16 stamped and formed contacts for TRIM TRIO connectors

### Description

Size 16 SM/SC .063" (1.6mm) diameter contacts are two piece strip formed crimp snap-in pin and sockets.

These contacts consist of a crimp body made of high conductive copper alloy, and a stainless steel retaining spring featuring retention in the housing cavity and a closed entry socket to prevent probe damage.

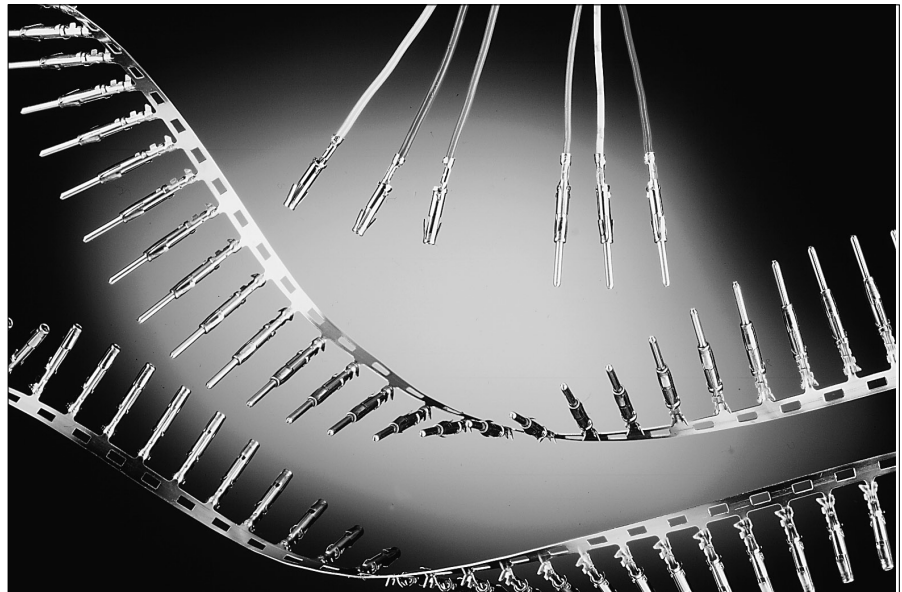
The contact with its open barrel is standard available on strip and packaged with 3000 pcs on reel. This reel packaging combined with semi or even full automatic crimp tooling provides the added advantage of a lower installed cost.

### Features and benefits

- Made from high conductive copper alloy with gold or tin over nickel plate finish.
- Two piece construction with dual purpose spring which serves for contact retention and protects the body against damage.
- Contacts available on reel (standard) and in bulk packing (100 pcs).
- Suitable for high volumes and lower installation cost.

### Performance characteristics

|                              |             |
|------------------------------|-------------|
| Current rating:              | 13 Amp      |
| Contact resistance:          | ≤ 6 mΩ      |
| Contact retention in body:   | 65 N min.   |
| Individual insertion force:  | 3.5 N max.  |
| Individual withdrawal force: | 0.55 N min. |



### Construction

Contact body: High conductive copper alloy.

Outer spring: Stainless steel

### Plating table

S6 = 0.75m Gold min. in contact area, flash on crimp barrel over Nickel.

D70 = Gold flash all over, over Nickel.

TK6 = Preplated Tin all over.

### Connector accommodation

Any TRIM TRIO size 16 contact can be used in any contact position in any connector in the TRIM TRIO size 16 interconnection system.

- MS-M / MSG / MB
- SMS Qikmate
- UTG
- UTP
- UTO
- MBG

Note:

Reeled contacts are for applicator with left side feeding.

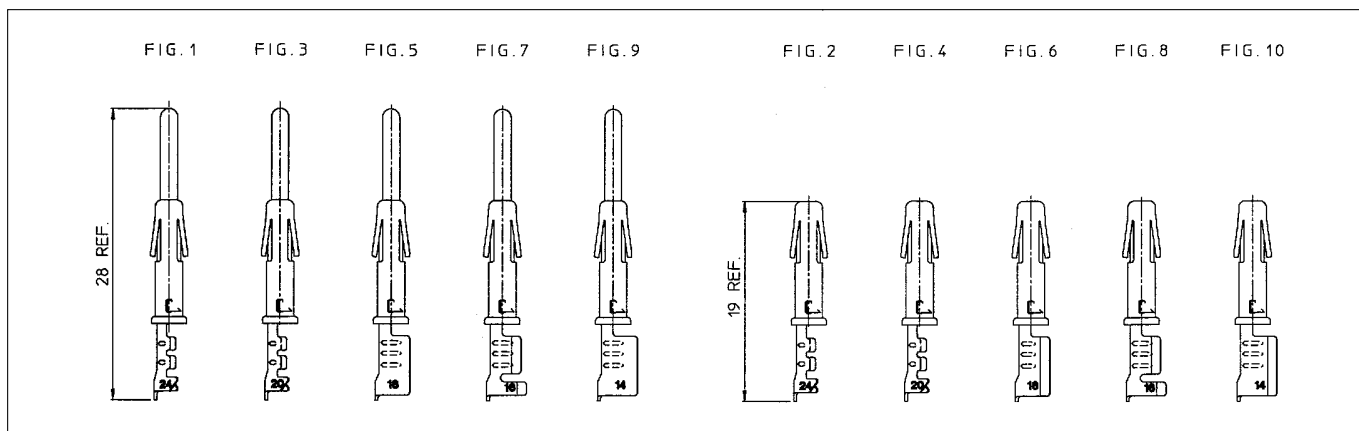
## How to order

|                              | SM<br>SC  | 16<br>16 | M<br>M | (L)<br>(L) | 1<br>1 | S6<br>S6 |
|------------------------------|---|----------|--------|------------|--------|----------|
| <b>Contact type:</b>         | <b>SM:</b> Male contact<br><b>SC:</b> Female contact  |          |        |            |        |          |
| <b>AWG Size:</b>             | 14, 16, 20, 24  |          |        |            |        |          |
| <b>Type of crimp barrel:</b> | American open crimp barrel  |          |        |            |        |          |
| <b>Packing:</b>              | <b>No digit:</b> Contacts on strip (qty 3000 per reel)<br><b>L:</b> Preformed loose piece contacts  |          |        |            |        |          |
| <b>Design variation</b>      | <b>1</b> : Only wire crimp for size 14 and 16<br>: Wire + insulation crimp for sizes 20 and 24<br><b>11</b> : Wire + insulation crimp for size 16 |          |        |            |        |          |
| <b>Plating indication:</b>   | See plating table   |          |        |            |        |          |

# SM/SC-M



## Standard SM/SC crimp contacts: Contact size 16 - Pin diameter 1.6mm (.063")



### Dimensional table

| Part number: contacts on strip<br>Loose pieces |      |                         |      | Wire size |                 | Insulation diameter | Wire strip length |
|--|------|-------------------------|------|-----------|-----------------|---------------------|-------------------|
| Pin contacts                                   | Fig. | Socket contacts         | Fig. | AWG       | mm <sup>2</sup> |                     |                   |
| SM24M1S6<br>SM24ML1S6                          | 1    | SC24M1S6<br>SC24ML1S6   | 2    | 26 - 24   | 0.13 - 0.25     | 0.89 - 1.58         | 4.0               |
| SM20M1S6<br>SM20ML1S6                          | 3    | SC20M1S6<br>SC20ML1S6   | 4    | 22 - 20   | 0.35 - 0.50     | 1.17 - 2.08         | 4.0               |
| SM16M1S6<br>SM16ML1S6                          | 5    | SC16M1S6<br>SC16ML1S6   | 6    | 18 - 16   | 0.80 - 1.50     | 3.0                 | 6.35              |
| SM16M11S6<br>SM16ML11S6                        | 7    | SC16M11S6<br>SC16ML11S6 | 8    | 18 - 16   | 0.80 - 1.50     | 2.0 - 3.0           | 4.65              |
| SM14M1S6<br>SM14ML1S6                          | 9    | SC14M1S6<br>SC14ML1S6   | 10   | 14        | 2.0 - 2,5       | 3.2                 | 6.35              |

For other platings: See plating table.

### Crimptooling table

| Size     | Hand crimp tooling for loose contacts      |                             | Automatic crimp tooling for contacts on strip |                      | Extraction tooling                              |
|----------|--|-----------------------------|---|----------------------|---|
|          | Hand tools die set included                | M8ND Die set (not included) | P100 MAN Mini Applicator (not included)       | (Stripper - crimper) |   |
| 24       | Y16SCM2 (ratchet)                          | N24RT11                     | MLS0318B                                      | SC10S1               | RX2025GE1<br>or<br>RX2025GE2<br>or<br>RX16D11D1 |
| 20       | Y14SCM2 (not ratchet)<br>Y14MTV (ratchet)  | N20RT29                     | MLS0555A                                      |                      |   |
| 16M(L)11 | Y16SCM2 (ratchet)<br>Y14SCM2 (not ratchet) | N16RT26                     | MLS0356A                                      |                      |   |
| 16M(L)1  | Y14SCM (ratchet)<br>Y14MTV (ratchet)       | N16RT24                     | MLS1579                                       |                      |   |
| 14       | Y14SCM (ratchet)<br>Y14MTV (ratchet)       | N14RT13                     | MLS1047                                       |                      |   |

For detailed information on crimp tooling : See crimp tooling section