# SM/SC-M Stamped contacts

## 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 srtip 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.
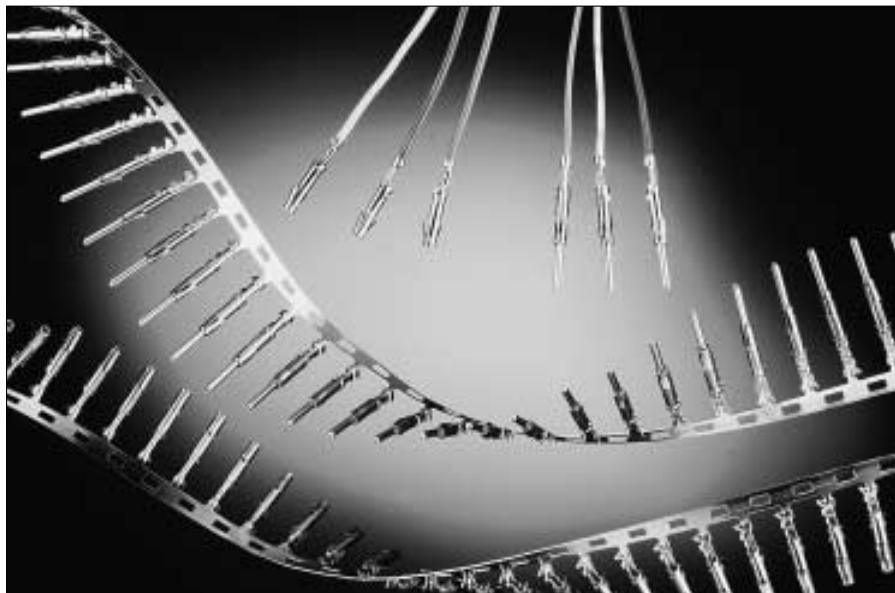
### Features and benefits

- Made from high conductive copper alloy with gold or tin over nickel plate finish.
- Two piece construcion 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: | $\leq 6$ m$\Omega$ |

| | |
|---|---|
| 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 contact can be used in any contact position in any connector in the TRIM TRIO interconnection system.
- MS-M / MSG Rectangular connectors
- SMS Qikmate
- G - Bantamate
- UT-Bantam
- UTG Metalok bantam
- UTP Full plastic bantam
- UTGS Shielded bantam
- MBG Bantamate II

## How to order

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

# SM/SC-M Stamped contacts

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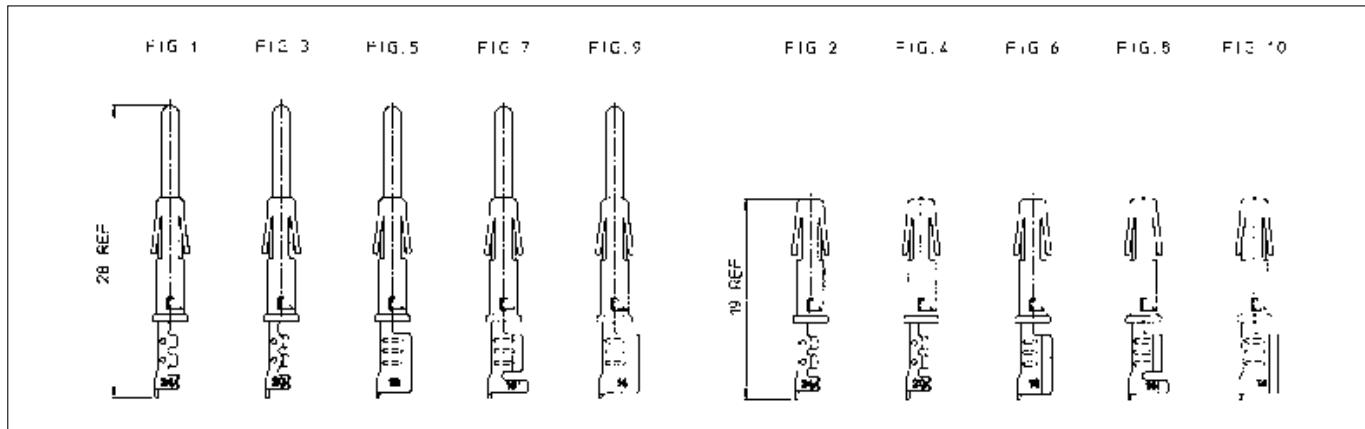


## Dimensional table

| Part number: contacts on strip Loose pieces | | | | Wire size | | Insulation diameter | Wire strip length |
|---|---|---|---|---|---|---|---|
| Pin contacts | Fig. | Socket contacts | Fig. | AWG | mm² | | |
| SM24M1S6 SM24ML1S6 | 1 | SC24M1S6 SC24ML1S6 | 2 | 26 - 24 | 0.13 - 0.25 | 0.89 - 1.58 | 4.0 |
| SM20M1S6 SM20ML1S6 | 3 | SC20M1S6 SC20ML1S6 | 4 | 22 - 20 | 0.35 - 0.50 | 1.17 - 2.08 | 4.0 |
| SM16M1S6 SM16ML1S6 | 5 | SC16M1S6 SC16ML1S6 | 6 | 18 - 16 | 0.80 - 1.50 | 3.0 | 6.35 |
| SM16M11S6 SM16ML11S6 | 7 | SC16M11S6 SC16ML11S6 | 8 | 18 - 16 | 0.80 - 1.50 | 2.0 - 3.0 | 4.65 |
| SM14M1S6 SM14ML1S6 | 9 | SC14M1S6 SC14ML1S6 | 10 | 14 | 2.0 | 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) | K750 ASC (Stripper - crimper) Mini Applicator (not included) | |
| 24 | Y16SCM2 (ratchet) | N24RT11 | MLS0318B | | |
| 20 | Y14MTV (ratchet) | N20RT29 | MLS0555A | MLS20M1 | RX2025GE1 or RX2025GE2 or RX16D11D1 |
| 16M(L)11 | Y16SCM2 (ratchet) | N16RT26 | MLS0356A | MLS16M11 | |
| 16M(L)1 | Y14SCM (ratchet) Y14MTV (ratchet) | N16RT24 | MLS1579 | MLS16M1 | |
| 14 | Y14SCM (ratchet) Y14MTV (ratchet) | N14RT13 | MLS1047 | MLS14M1 | |

For detailed information on crimp tooling : See crimp tooling section

SM/SC-M

# Mouser Electronics

Authorized Distributor


Click to View Pricing, Inventory, Delivery & Lifecycle Information:


[Souriau](): 

[SM20ML1D70]()  [SM24ML-1TK6]()  [SM20ML1TK6]()  [SM16ML-1TK6]()  [SM14ML1TK6]()  [SM16ML1D70]()  [SM16M1TK6]()
[SM16ML1S6]()  [SM14M1TK6]()  [SM20ML1S6]()  [SM20M1TK6]()  [SM24ML1S6]()  [SC14ML1D70]()  [SC16M11S6]()  [SM20M1S18]()
[SC16M11TK6]()  [SC14M1D70]()  [SC20M1S31]()  [SC14M1S18]()  [SC24ML1S31]()  [SC16M1S18]()  [SC16M11S18]()  [SC20M1D70REV]()
[SC24M1S31]()  [SC16ML11S31]()  [SM16ML1S18]()  [SM16M11TK6]()  [SC24M1S18]()  [SC16M11D70REV]()  [SC14ML1S18]()
[SC20M1D70]()  [SC20ML1S18]()  [SC16ML11S18]()  [SC14ML1S31]()  [SC16M11S6REV]()  [SM14ML1S31]()  [SC16M11D70]()
[SM20ML1S18]()  [SC16ML1S18]()  [SC20ML1S6UK]()  [SC20M1S18]()  [SC14M1S31]()  [SC16M1S6REV]()  [SC20M1S2]()  [SM16W-3S26]()