

# RM/RC-W machined contact SM/SC-W stamped contacts



## Size 20 contacts for UTOW connectors

### Description

Size 20 contacts with a .040" (1.0mm) pin diameter are two piece crimp snap-in contacts in pin and socket version available in:

- Solid machined version
- Stamped and formed version
- Solid machined dip solder contacts
  - 50A7
  - 5016

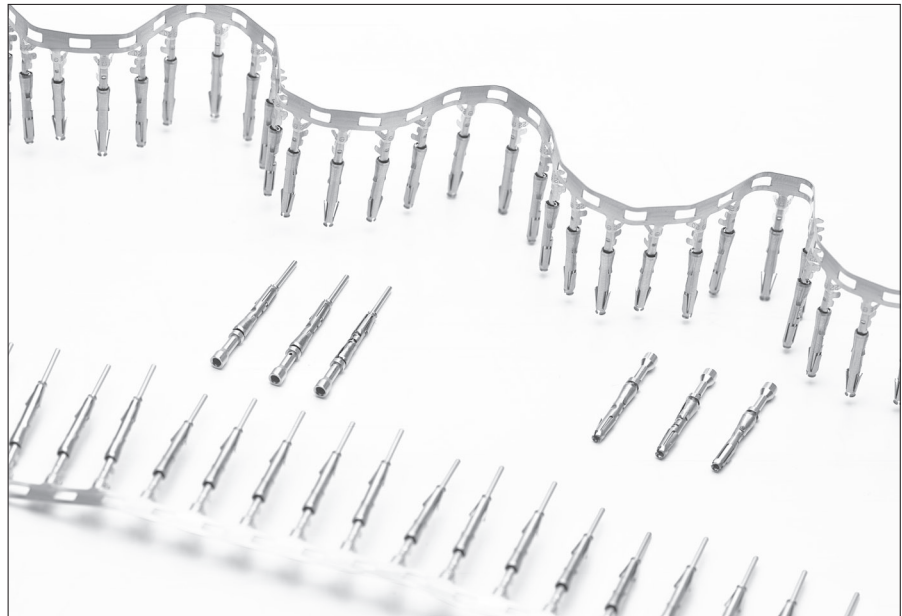
And designed for heavy duty top performance requirements. These contacts consist of a crimp/solder body made of high conductive copper alloy, and a stainless steel retaining spring featuring retention in the housing cavity and a closed entry socket to prevent probe damage.

Crimp contacts accommodate AWG20 through AWG26 wire and the crimp barrels.

All contacts have to be ordered separately

### Features and benefits

- Made from high conductive copper alloy with gold plate finish.
- Two piece construction with dual purpose spring which serves for contact retention and protects the body against damage.
- Stamped and formed contacts packaging
  - On reel: 3000 pcs
  - In bulk packing: 100 pcs in plastic bag
- Solid machined crimp and dip solder contacts packaging
  - 50 pcs in plastic box



### Performance characteristics

|                                  | Machined                | Stamped and Formed      |
|----------------------------------|-------------------------|-------------------------|
| Current rating:                  | 7,5 Amps                | 5 Amps                  |
| Contact resistance:              | ≤ 6 mΩ                  | ≤ 15 mΩ                 |
| Dielectric withstanding voltage: | 1500 V Rms min          |                         |
| Contact retention in body:       | 90 N max.               |                         |
| Contact engagement force:        | 5 N max.                |                         |
| Contact separation force:        | 2 N min.                |                         |
| Plating:                         | 0.40 μ gold over nickel | 0.75 μ gold over nickel |

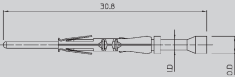
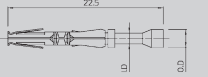
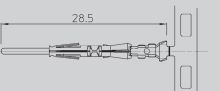
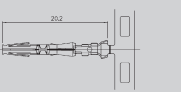
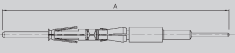
### Construction

Contact body: High conductive copper alloy.  
Outer spring: Stainless steel

### Connector accommodation

Any size 20 contacts for UTOW connectors can be used in any contact position.

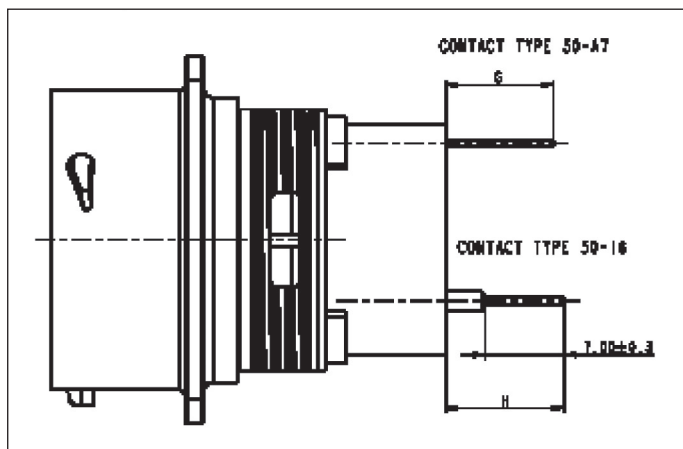
### How to order

| Contact type           |                                                                                     |                                                                                     | Part number             | AWG                          | Section mm2                            | Insulation diameter | Tooling                           |             |
|------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------|------------------------------|----------------------------------------|---------------------|-----------------------------------|-------------|
| Machined crimp         |  | Pin                                                                                 | RM24W3K                 | 26 – 24                      | 0.13 – 0.25                            | 0.89 – 1.58         | MH860 +<br>positionner<br>MH86301 |             |
|                        |                                                                                     |                                                                                     | RM20W3K                 | 22 – 20                      | 0.35 – 0.50                            | 1.17 – 2.08         |                                   |             |
|                        |                                                                                     |                                                                                     | RM18W3K                 | 20 - 18                      | 0.50 - 1.00                            | 1.20 - 2.10         |                                   |             |
|                        |  | Socket                                                                              | RC24W3K                 | 26 – 24                      | 0.13 – 0.25                            | 0.89 – 1.58         |                                   |             |
|                        |                                                                                     |                                                                                     | RC20W3K                 | 22 – 20                      | 0.35 – 0.50                            | 1.17 – 2.08         |                                   |             |
|                        |                                                                                     |                                                                                     | RC18W3K                 | 20 - 18                      | 0.50 - 1.00                            | 1.20 - 2.10         |                                   |             |
| Stamped & formed crimp |  | Pin<br>Reeled loose piece                                                           | SM24W3S26<br>SM24WL3S26 | 26 – 24                      | 0.13 – 0.25                            | 0.89 – 1.58         | Y16SCM3 or<br>Y14MTV              |             |
|                        |                                                                                     |                                                                                     | Reeled loose piece      | SM20W3S26<br>SM20WL3S26      | 22 – 20                                | 0.35 – 0.50         |                                   | 1.17 – 2.08 |
|                        |                                                                                     |                                                                                     |                         | Socket<br>Reeled loose piece | SC24W3S25<br>SC24WL3S25                | 26 – 24             |                                   | 0.13 – 0.25 |
|                        | Reeled loose piece                                                                  | SC20W3S25<br>SC20WL3S25                                                             | 22 - 20                 |                              | 0.35 – 0.50                            | 1.17 – 2.08         |                                   |             |
|                        |                                                                                     |  | Socket                  |                              |                                        |                     |                                   |             |
|                        |                                                                                     |                                                                                     |                         |                              |                                        |                     |                                   |             |
| Machined Dip solder    |  | Pin                                                                                 | 50A7                    | RMW50AK7                     | For solder tail details see next page. |                     |                                   |             |
|                        |                                                                                     |                                                                                     | 5016                    | RMW5016K                     |                                        |                     |                                   |             |
|                        |  | Socket                                                                              | 50A7                    | RCW50A7K                     |                                        |                     |                                   |             |
|                        |                                                                                     |                                                                                     | 5016                    | RCW5016K                     |                                        |                     |                                   |             |

# RM/RC-W Machined Contacts



**Nominal length (dim G) of dipsolder contacts out of connector (contacts to be ordered separately)**



## UT0W0 wall mounting receptacle connectors

| Connector size | Pin contact<br>RMW50A7K | RMW5016K | Socket contact<br>RCW50A7K | RCW5016K |
|----------------|-------------------------|----------|----------------------------|----------|
| 10             | 9.43                    | 10.33    | 9.85                       | 10.50    |
| 12             |                         |          |                            |          |
| 14             |                         |          |                            |          |
| 16             |                         |          |                            |          |
| 18             |                         |          |                            |          |
| 20             | 9.24                    | 10.32    | 7.65                       | 8.31     |
| 22             |                         |          |                            |          |
| 24             |                         |          |                            |          |

## UT0W7 jam nut receptacle connectors

| Connector size | Pin contact<br>RMW50A7K | RMW5016K | Socket contact<br>RCW50A7K | RCW5016K |
|----------------|-------------------------|----------|----------------------------|----------|
| 10             | 9.51                    | 10.41    | 2.4                        | 3.04     |
| 12             |                         |          |                            |          |
| 14             |                         |          |                            |          |
| 16             |                         |          |                            |          |
| 18             |                         |          |                            |          |
| 20             | 5                       | 6        | —                          | —        |
| 22             |                         |          |                            |          |
| 24             |                         |          |                            |          |

For recommended PC-Board hole lay out: Consult factory

# Mouser Electronics

Authorized Distributor

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Souriau:

[RMW5016K](#) [RCW50A7K](#)