



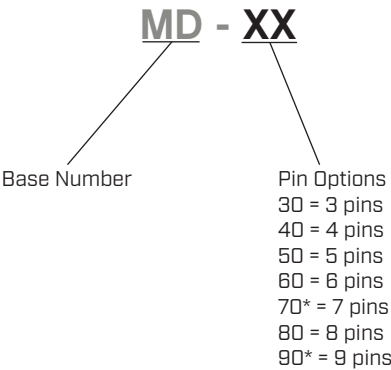
SERIES: MD | DESCRIPTION: MINI DIN CONNECTOR

FEATURES

- 3~9 pins
- plastic strain relief
- rated voltage: 100 Vac



PART NUMBER KEY



Note: \*. Discontinued MD-70 & MD-90 models.

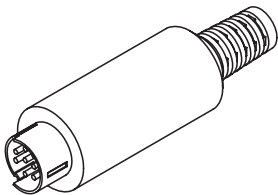
SPECIFICATIONS

| parameter             | conditions/description  | min | typ       | max    | units      |
|-----------------------|-------------------------|-----|-----------|--------|------------|
| rated input voltage   |                         |     | 100<br>12 |        | Vac<br>Vdc |
| rated input current   | at 100 Vac<br>at 12 Vdc |     |           | 1<br>2 | A<br>A     |
| contact resistance    |                         |     |           | 30     | mΩ         |
| insulation resistance | at 250 Vdc              | 50  |           |        | MΩ         |
| voltage withstand     | for 1 minute            |     |           | 250    | Vac        |
| insertion force       |                         |     |           | 4.5    | kg         |
| withdrawal force      |                         | 0.9 |           | 3      | kg         |
| operating temperature |                         | -20 |           | 105    | °C         |
| life                  |                         |     | 5,000     |        | cycles     |
| RoHS                  | yes                     |     |           |        |            |

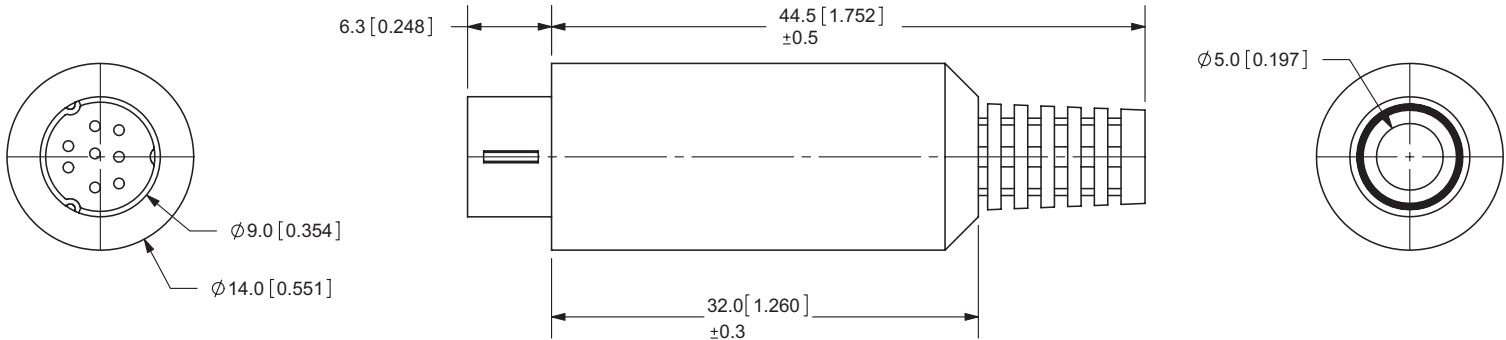
MECHANICAL DRAWINGS

units: mm[inches]

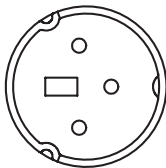
TOLERANCE: ±0.2mm



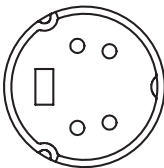
|                    | MATERIAL                | PLATING |
|--------------------|-------------------------|---------|
| shield             | brass                   | nickel  |
| pin contacts [1-9] | brass                   | silver  |
| insulator          | Polyamide 6 (PA-1010C2) |         |
| shell              | ABS (PA-757)            |         |
| cover              | UE630 + PELL (LL120)    |         |



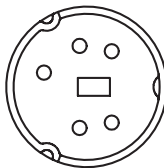
**MD-30**



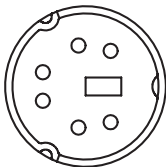
**MD-40**



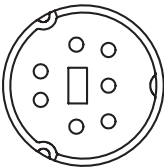
**MD-50**



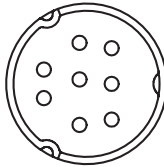
**MD-60**



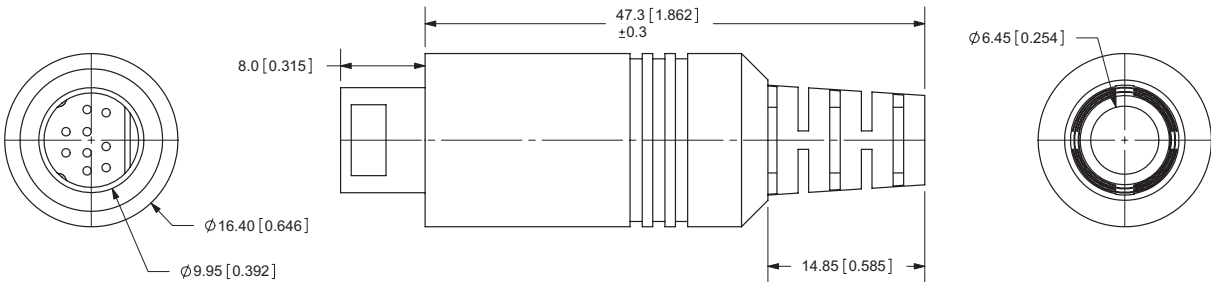
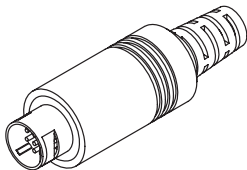
**MD-70**



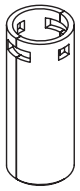
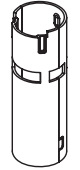
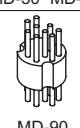
**MD-80**

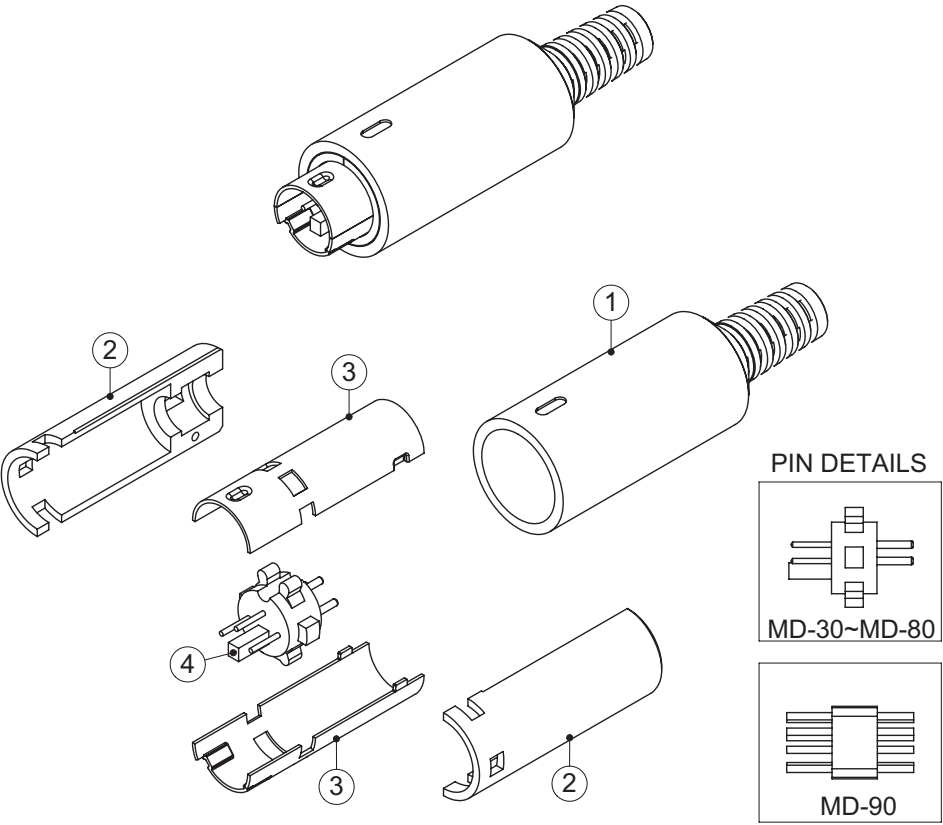


**MD-90**

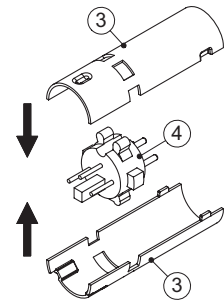


MECHANICAL ASSEMBLY

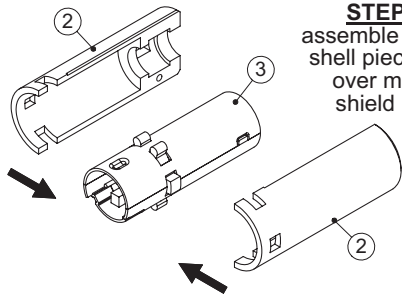
|               |                                                                                     |
|---------------|-------------------------------------------------------------------------------------|
| 1             |    |
| cover         |                                                                                     |
| 2             |    |
| plastic shell |                                                                                     |
| 3             |    |
| metal shield  |                                                                                     |
| 4             |   |
| housing       | MD-30~MD-80                                                                         |
| 4             |  |
| housing       | MD-90                                                                               |



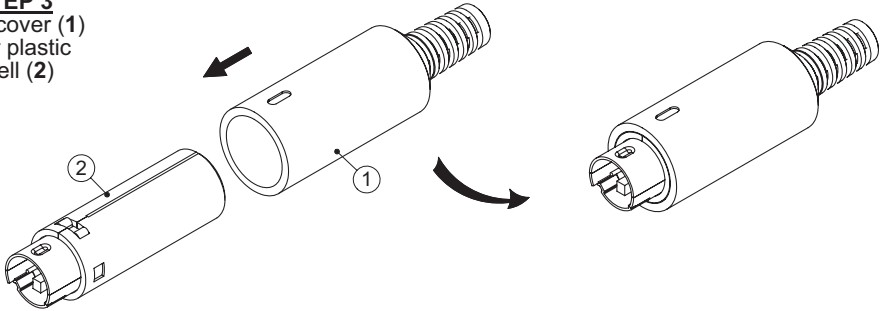
**STEP 1**  
solder wires to  
housing (4),  
assemble metal  
shield pieces (3)  
onto housing (4)



**STEP 2**  
assemble plastic  
shell pieces (2)  
over metal  
shield (3)



**STEP 3**  
slide cover (1)  
over plastic  
shell (2)



Note: 1. The mechanical assembly is a genral graphical representation only. Specific models will differ in actual appearance.  
2. The metal shield for MD-90 is a single piece in which the pin housing slides into shield for assembly.

REVISION HISTORY

| rev. | description                          | date       |
|------|--------------------------------------|------------|
| 1.0  | initial release                      | 04/06/2006 |
| 1.01 | updated dimensions                   | 02/27/2008 |
| 1.02 | added tolerance                      | 12/01/2009 |
| 1.03 | added insertion and withdrawal force | 05/19/2010 |
| 1.04 | new template applied                 | 04/09/2012 |
| 1.05 | updated housing                      | 04/24/2012 |
| 1.06 | added 9 pin model detail             | 06/08/2017 |
| 1.07 | brand update                         | 02/21/2020 |
| 1.08 | logo, datasheet style update         | 08/05/2022 |
| 1.09 | discontinued models MD-70 & MD-90    | 09/26/2022 |
| 1.10 | CUI Devices rebranded to Same Sky    | 09/12/2024 |

The revision history provided is for informational purposes only and is believed to be accurate.



Same Sky offers a one (1) year limited warranty. Complete warranty information is listed on our website.

Same Sky reserves the right to make changes to the product at any time without notice. Information provided by Same Sky is believed to be accurate and reliable. However, no responsibility is assumed by Same Sky for its use, nor for any infringements of patents or other rights of third parties which may result from its use.

Same Sky products are not authorized or warranted for use as critical components in equipment that requires an extremely high level of reliability. A critical component is any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.

[sameskydevices.com](https://www.sameskydevices.com)

# Mouser Electronics

Authorized Distributor

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

[Same Sky:](#)

[MD-90](#) [MD-70](#)