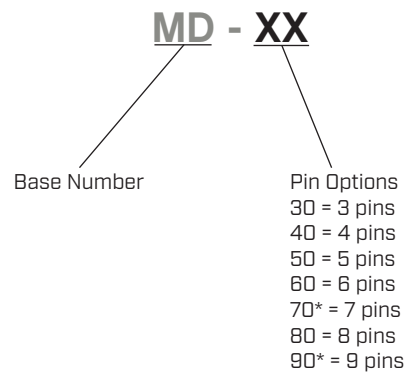


**SERIES:** MD | **DESCRIPTION:** MINI DIN CONNECTOR**FEATURES**

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

**PART NUMBER KEY**

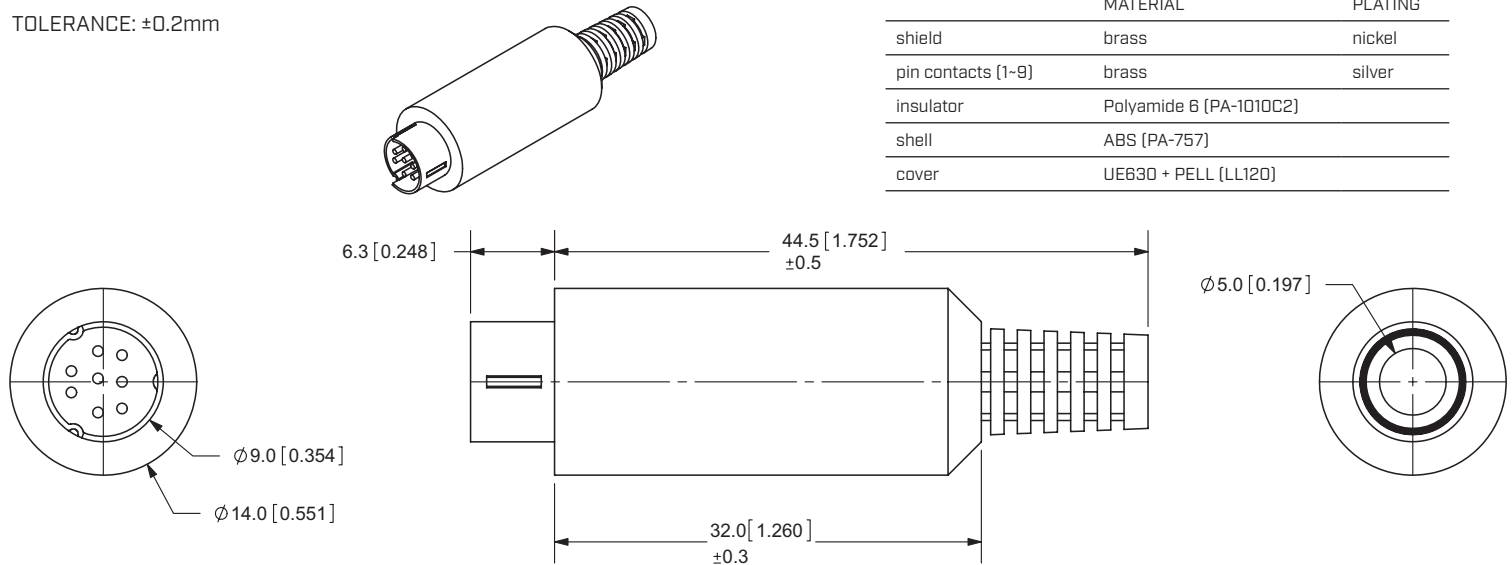
Note: \*. Discontinued MD-70 & MD-90 models.

**SPECIFICATIONS**

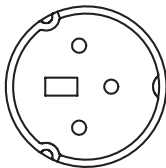
| parameter             | conditions/description  | min | typ       | max    | units      |
|-----------------------|-------------------------|-----|-----------|--------|------------|
| rated input voltage   |                         |     | 100<br>12 |        | Vac<br>Vdc |
| rated input current   | 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

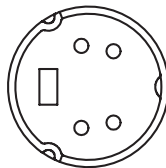
units: mm[inches]

TOLERANCE:  $\pm 0.2\text{mm}$ 

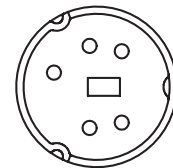
### MD-30



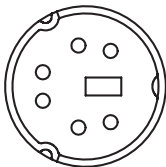
### MD-40



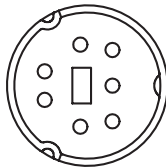
### MD-50



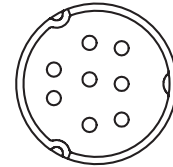
### MD-60



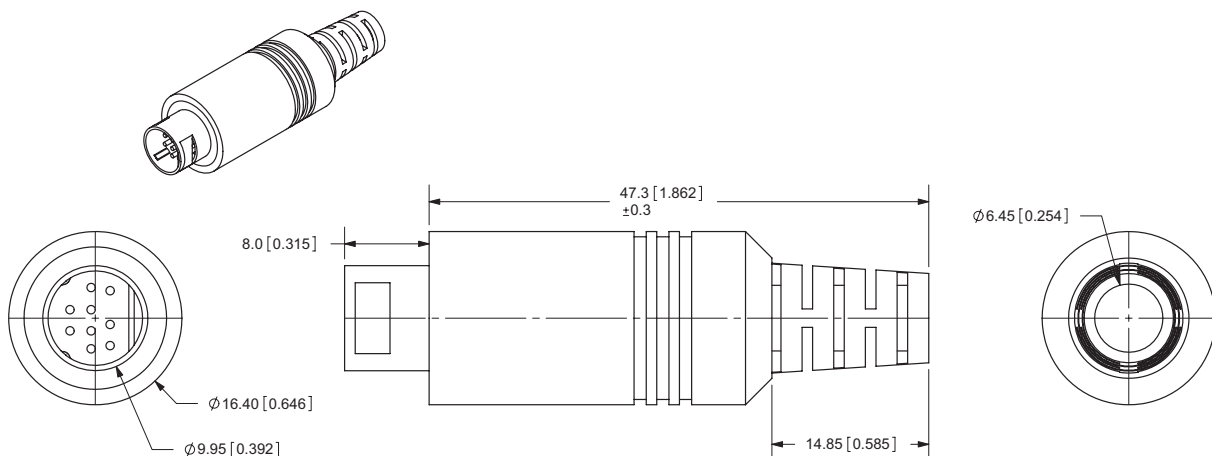
### MD-70



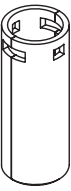
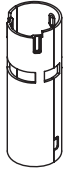
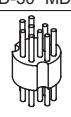
### MD-80

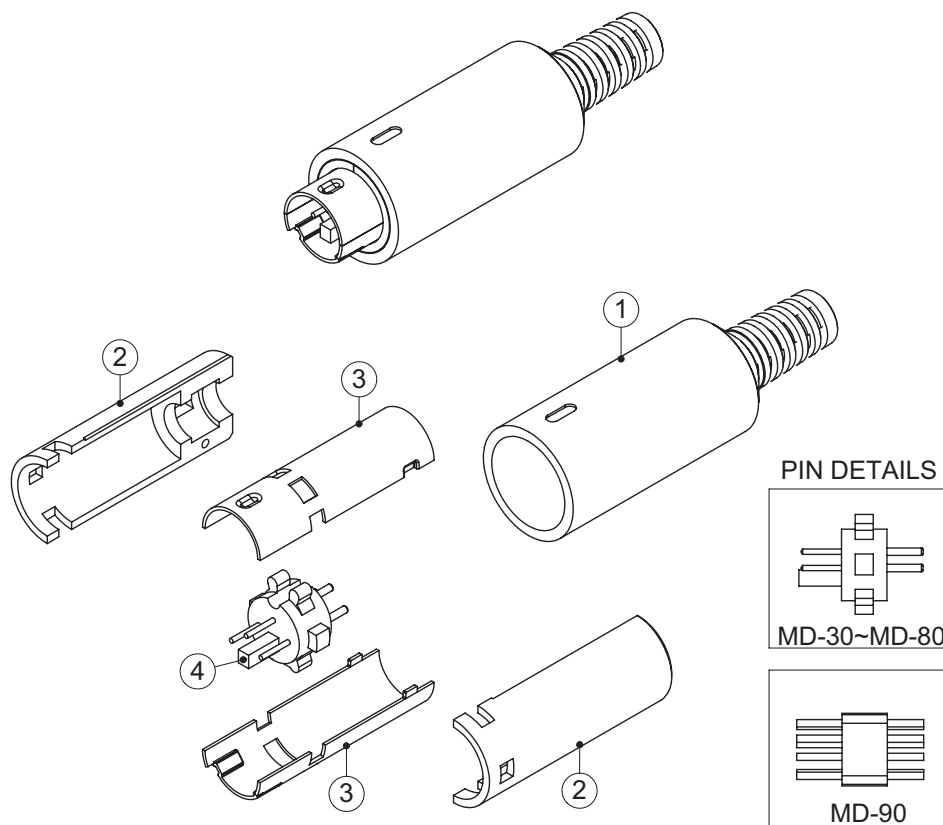


### MD-90

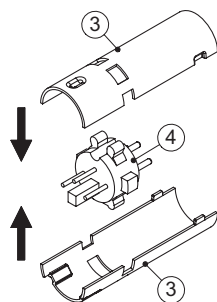


## MECHANICAL ASSEMBLY

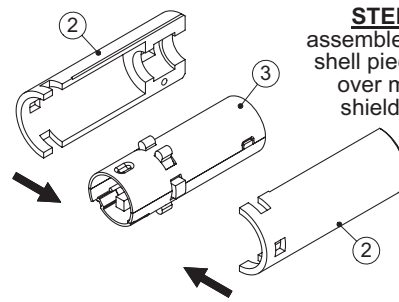
|               |                                                                                     |
|---------------|-------------------------------------------------------------------------------------|
| 1             |    |
| cover         |                                                    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



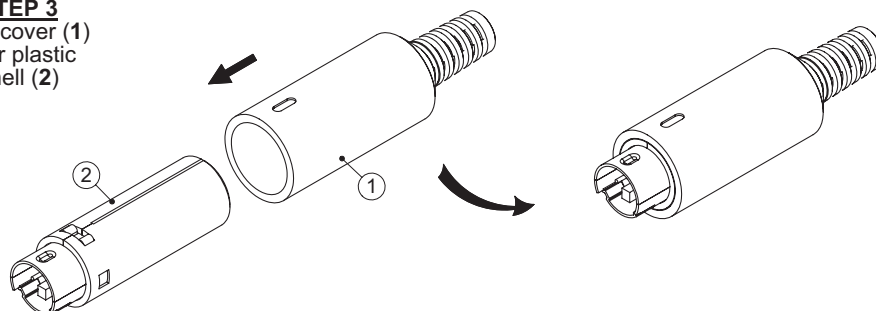
**STEP 1**  
solder wires to  
housing (4),  
assemble metal  
shield pieces (3)  
onto housing (4)



**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 general 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 |

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



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

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