

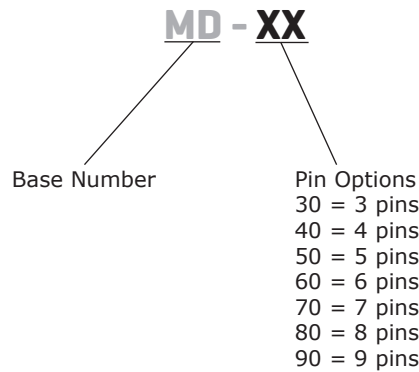
SERIES: MD | **DESCRIPTION:** MINI DIN CONNECTOR

FEATURES

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



PART NUMBER KEY



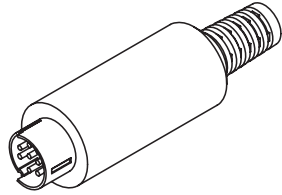
SPECIFICATIONS

| parameter | conditions/description | min | typ | max | units |
|-----------------------|-------------------------|-----|-----------|--------|------------|
| rated input voltage | | | 100 12 | | Vac Vdc |
| rated input current | at 100 Vac at 12 Vdc | | | 1 2 | A 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 | 2011/65/EU | | | | |

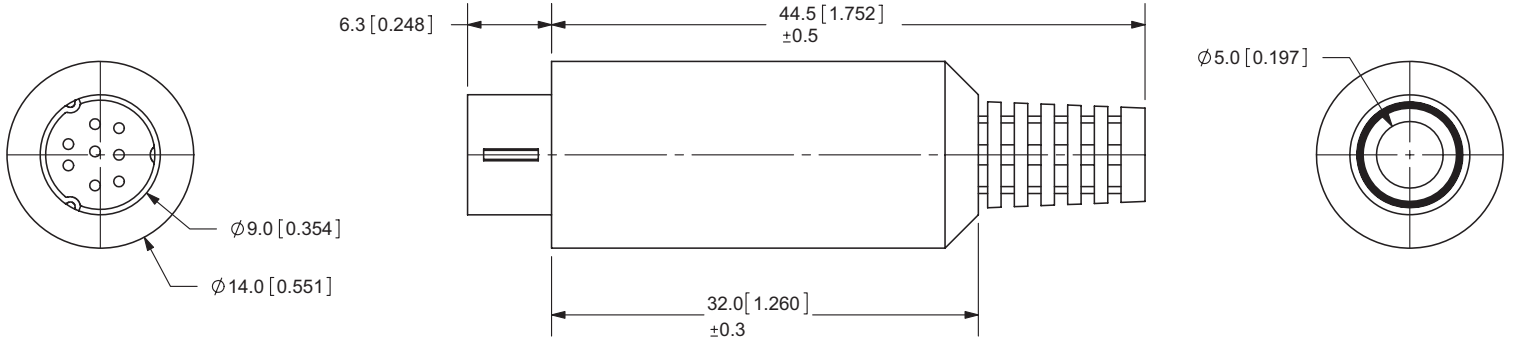
MECHANICAL DRAWINGS

units: mm[inches]

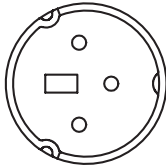
TOLERANCE: $\pm 0.2\text{mm}$



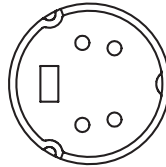
| | MATERIAL | PLATING |
|--------------------|-------------------------|---------|
| shield | brass | nickel |
| pin contacts (1~9) | brass | silver |
| insulator | Polyamide 6 (PA-1010C2) | |
| shell | ABS (PA-757) | |
| cover | UE630 + PELL (LL120) | |



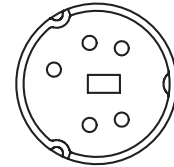
MD-30



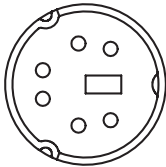
MD-40



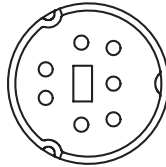
MD-50



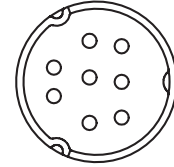
MD-60



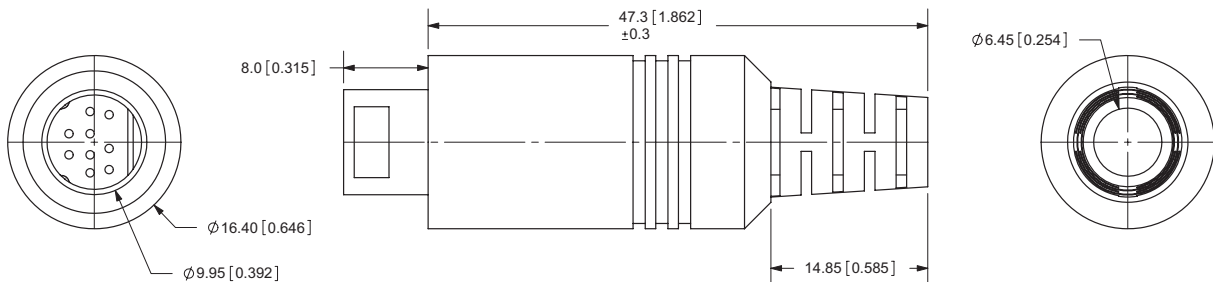
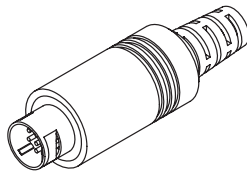
MD-70




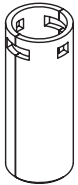
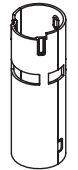


MD-80

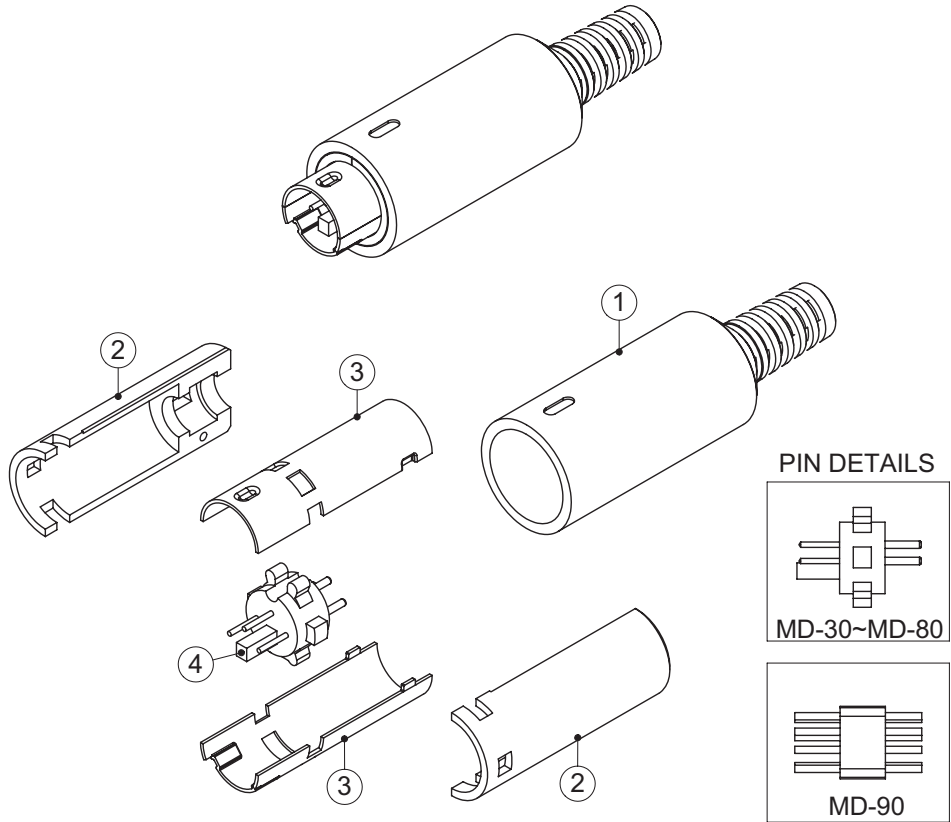


MD-90

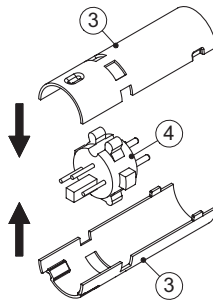


MECHANICAL ASSEMBLY

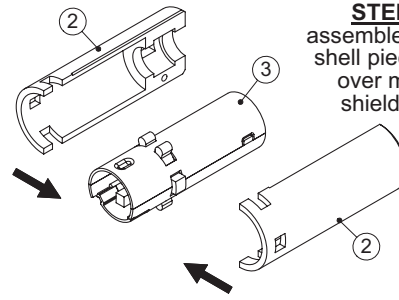
| | |
|---------------|-------------------------------------------------------------------------------------|
| 1 |  |
| cover | |
| 2 |  |
| plastic shell | |
| 3 |  |
| metal shield | |
| 4 |  |
| housing | MD-30~MD-80 |
| 4 |  |
| housing | MD-90 |



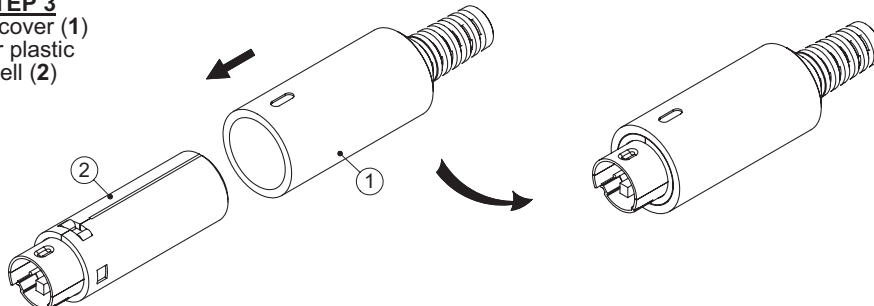
STEP 1
solder wires to housing (4), assemble metal shield pieces (3) onto housing (4)



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 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 |

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



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