# SERIES: SD | DESCRIPTION: STANDARD DIN CONNECTOR

## FEATURES

- strain relief
- 3~13 pins
- 100 Vac rated



RoHS

## PART NUMBER KEY

SD - XX

Base Number

Pin Options
30* = 3 pins
40 = 4 pins
50 = 5 pins, 180 degrees
60 = 6 pins
70* = 7 pins
80 = 8 pins, 270 degrees
81* = 8 pins, 262 degrees
130* = 13 pins

Note: *. Discontinued SD-30, SD-70- SD-81, & SD-130 models.

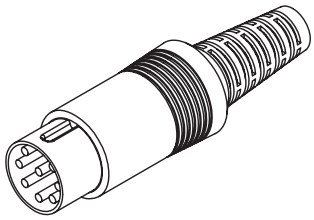
## SPECIFICATIONS

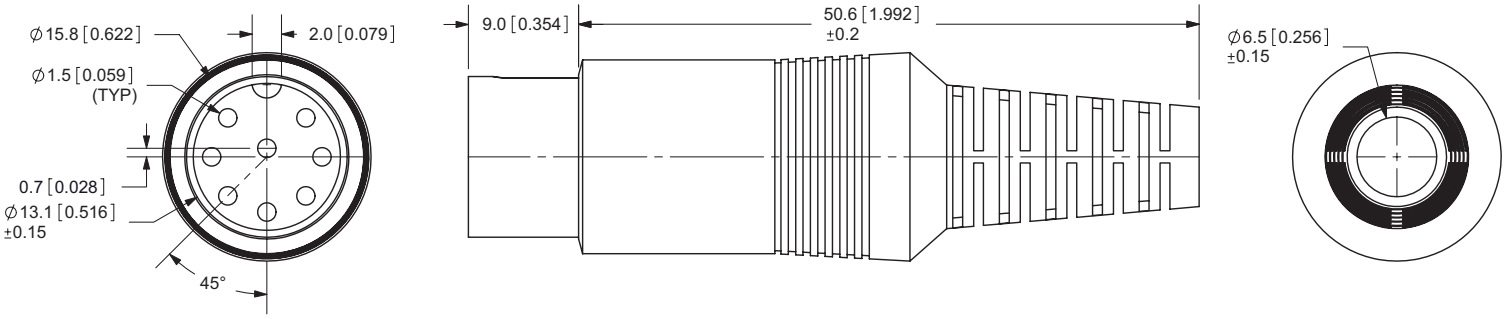
| parameter | conditions/description | min | typ | max | units |
|---|---|---|---|---|---|
| rated input voltage | | | 100<br>12 | | Vac<br>Vdc |
| rated input current | at 100 Vac<br>at 12 Vdc | | | 1<br>2 | A<br>A |
| contact resistance | | | | 30 | mΩ |
| insulation resistance | at 500 Vdc | 100 | | | MΩ |
| voltage withstand | for 1 minute | | | 1,000 | Vac |
| insertion force | | | | 4 | kg |
| withdrawal force | | 1 | | 3.5 | kg |
| operating temperature | | 5 | | 70 | °C |
| life | | | 5,000 | | cycles |
| RoHS | yes | | | | |

## MECHANICAL DRAWINGS

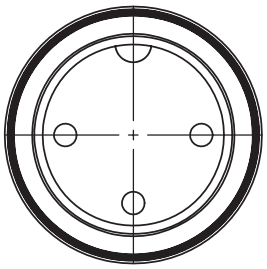
units: mm[inches]
tolerance: ±0.1 mm

| | MATERIAL | PLATING |
|---|---|---|
| contact pins (30~80) | brass | nickel |
| contact pins (81, 130) | brass | silver |
| shell | steel | nickel |
| insulator (30~80, 130) | PBT | |
| insulator (81) | ABS | |
| boot | EVA | |

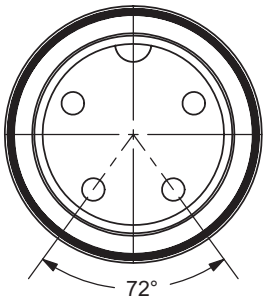




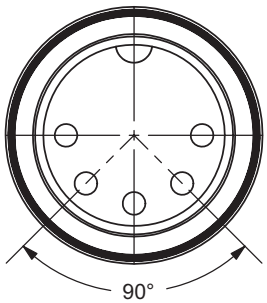

### SD-30



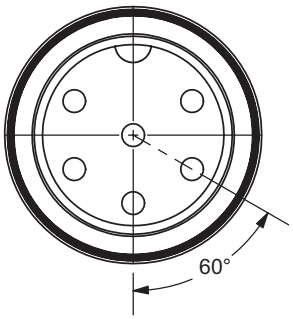
### SD-40



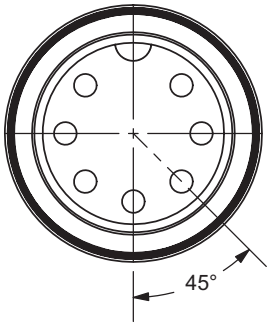

### SD-50



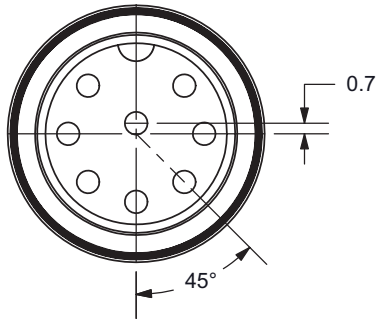

### SD-60




### SD-70

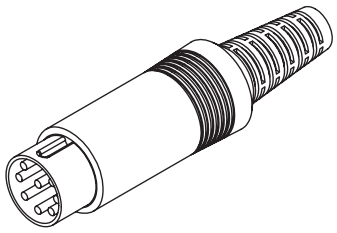


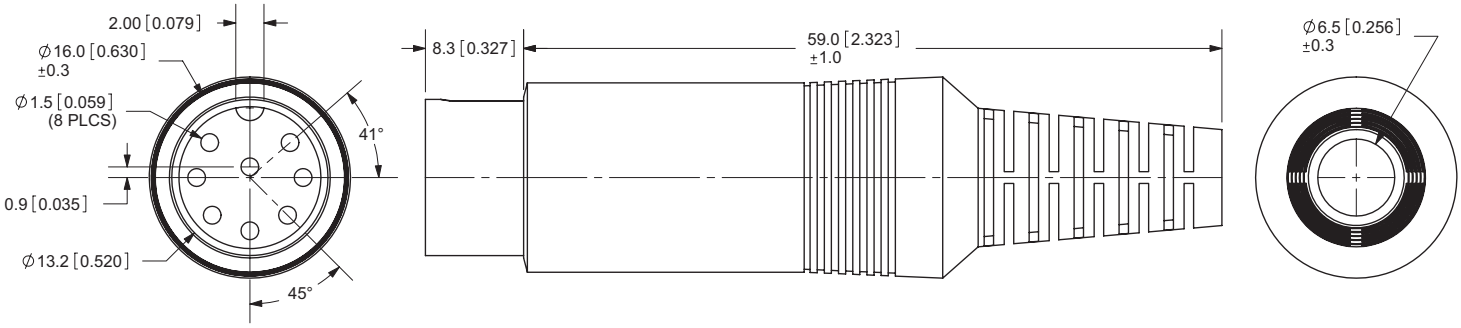

### SD-80



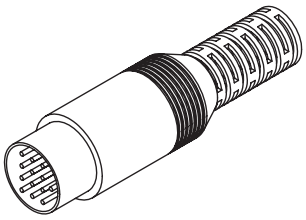
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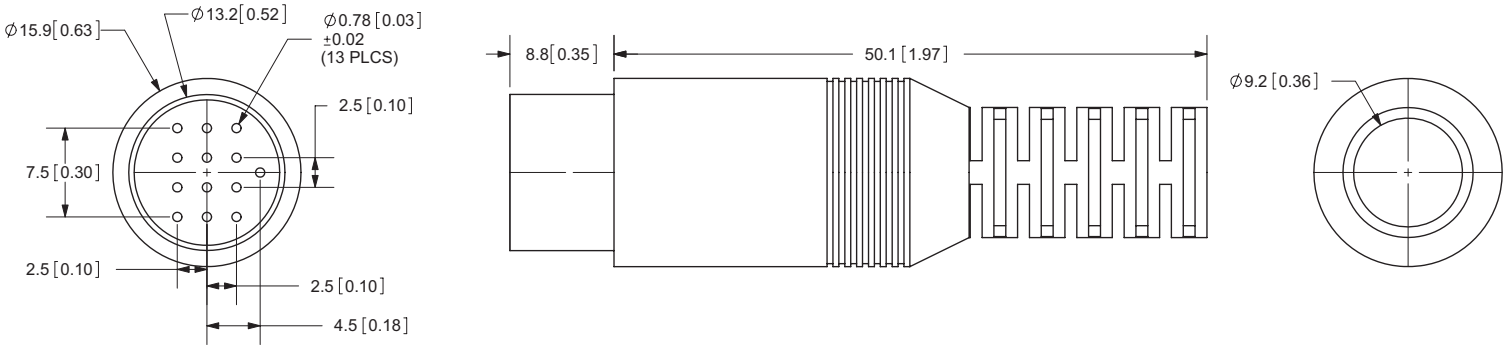
## SD-81



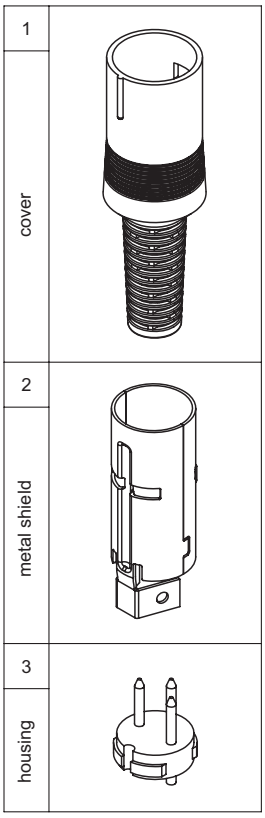


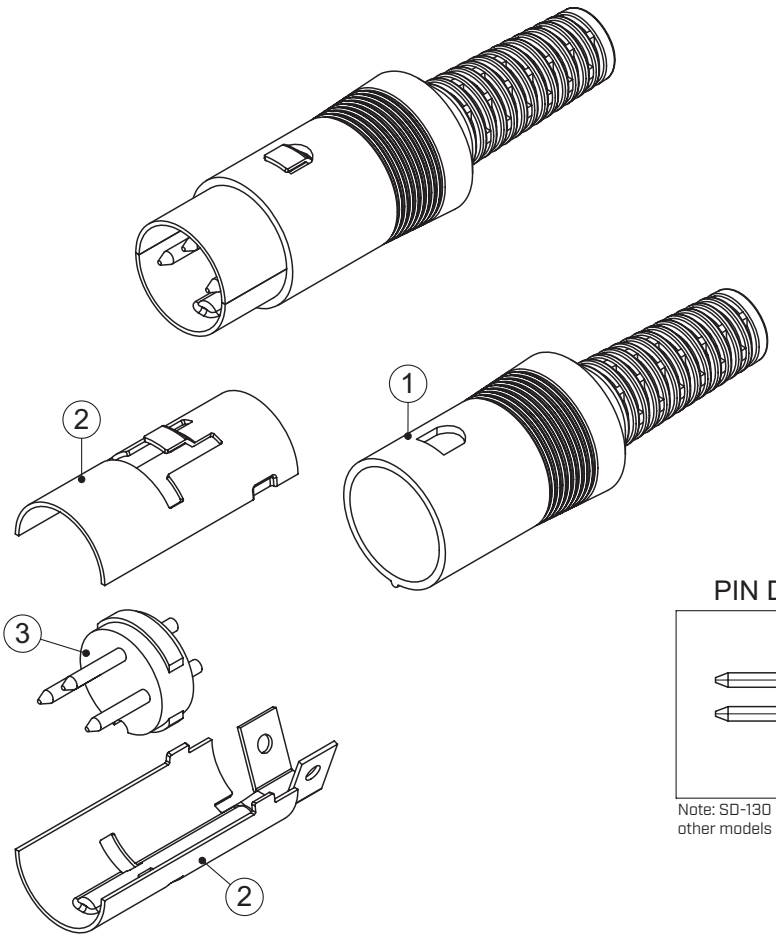

## SD-130



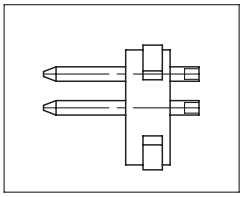


## MECHANICAL ASSEMBLY



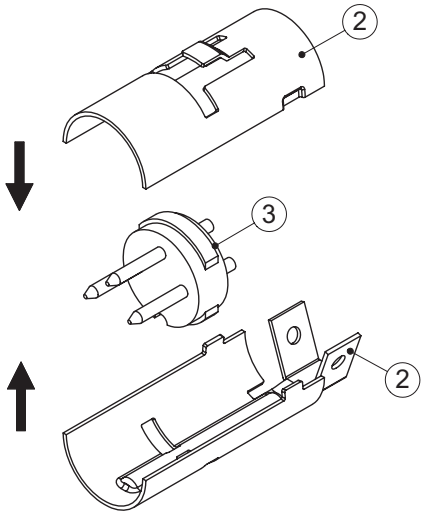




PIN DETAILS

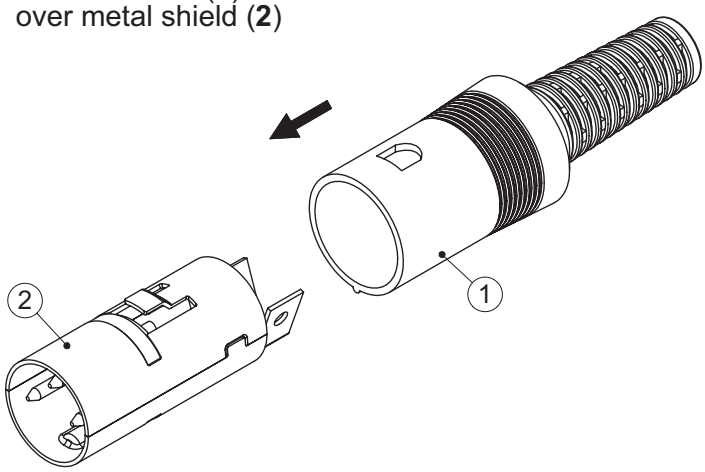


Note: SD-130 has solid solder pins. All other models have solder cups.

**STEP 1**
solder wires to housing (3), assemble metal shield pieces (2) onto housing (3)




**STEP 2**
slide cover (**1**) over metal shield (**2**)



## REVISION HISTORY

| rev. | description | date |
|---|---|---|
| 1.0 | initial release | 02/23/2006 |
| 1.01 | new template applied | 02/15/2012 |
| 1.02 | updated housings | 04/12/2012 |
| 1.03 | corrected center pin positioning on SD-80 | 09/13/2013 |
| 1.04 | updated datasheet | 05/22/2017 |
| 1.05 | updated datasheet | 10/16/2018 |
| 1.06 | brand update | 02/19/2020 |
| 1.07 | logo, datasheet style update | 08/05/2022 |
| 1.08 | discontinued model SD-30 | 09/26/2022 |
| 1.09 | discontinued model SD-70 | 01/10/2023 |
| 1.10 | discontinued model SD-81 | 02/08/2023 |
| 1.11 | discontinued model SD-130 | 04/19/2023 |

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