

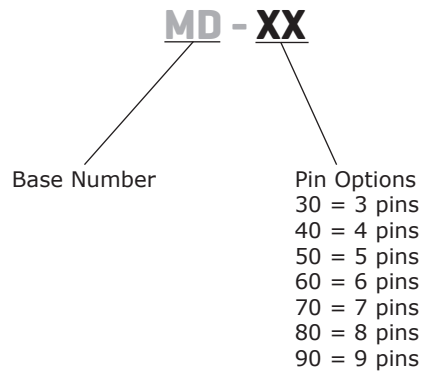
**SERIES:** MD | **DESCRIPTION:** MINI DIN CONNECTOR

**FEATURES**

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



**PART NUMBER KEY**



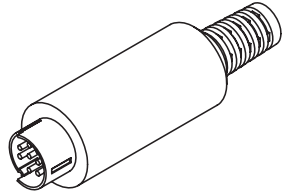
**SPECIFICATIONS**

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				

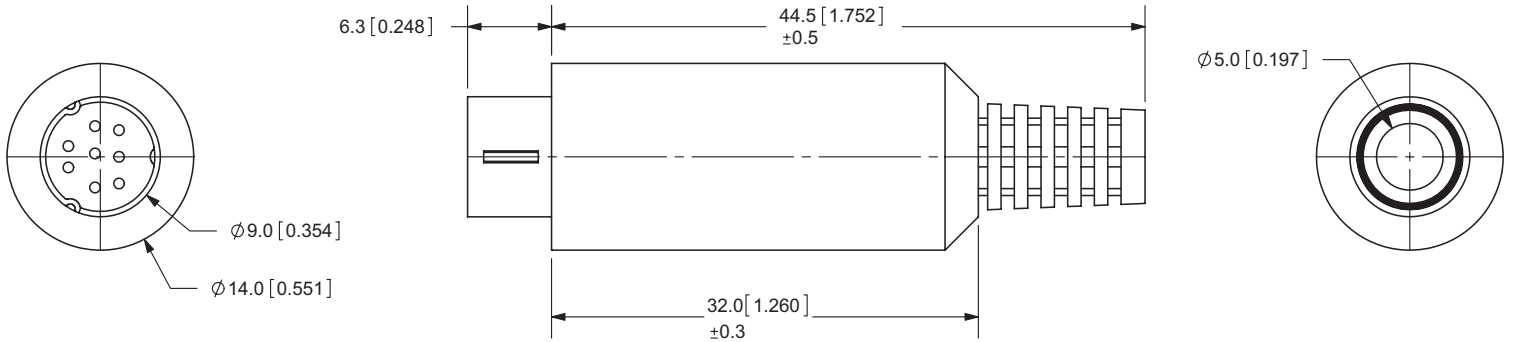
## MECHANICAL DRAWINGS

units: mm[inches]

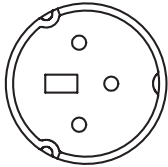
TOLERANCE:  $\pm 0.2$ mm



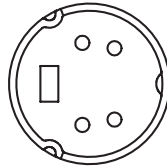
	MATERIAL	PLATING
shield	brass	nickel
pin contacts (1~9)	brass	silver
insulator	Polyamide 6 (PA-1010C2)	
shell	ABS (PA-757)	
cover	UE630 + PELL (LL120)	



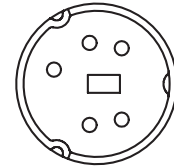
**MD-30**



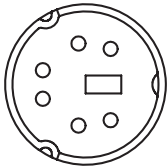
**MD-40**



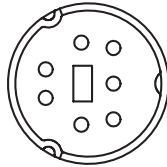
**MD-50**



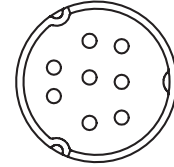
**MD-60**



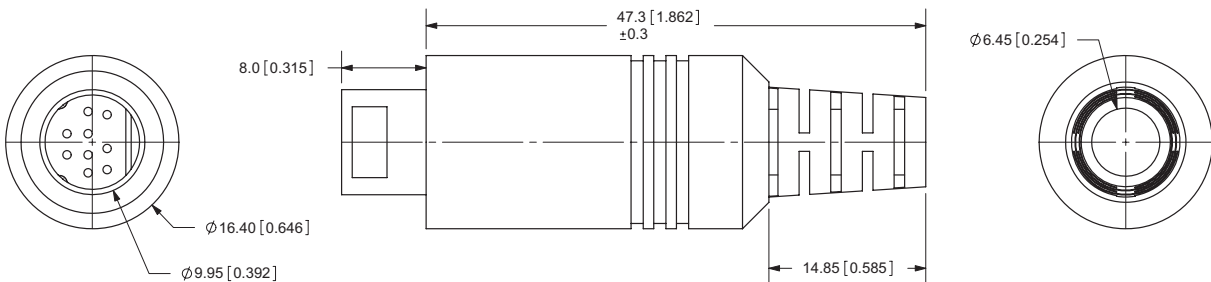
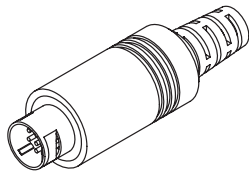
**MD-70**




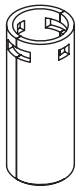
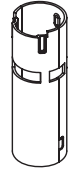

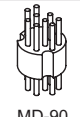
**MD-80**

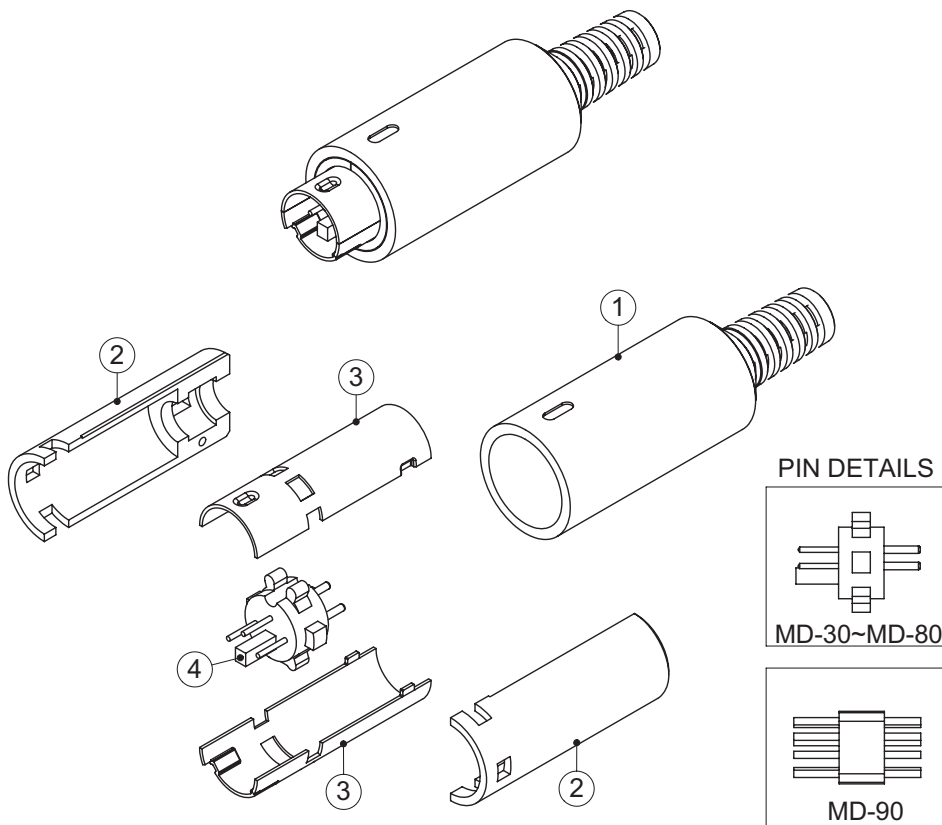


**MD-90**

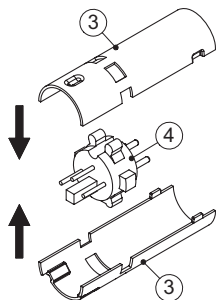


## MECHANICAL ASSEMBLY

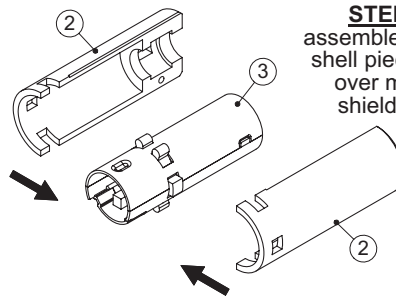
1	
cover	
2	
plastic shell	
3	
metal shield	
4	 MD-30~MD-80
housing	
4	 MD-90
housing	



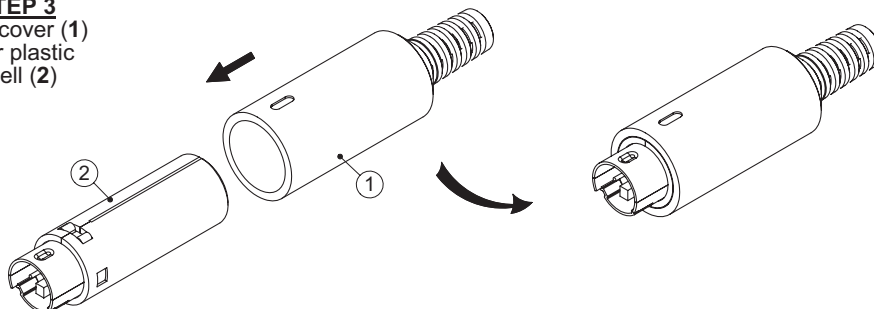
**STEP 1**  
solder wires to housing (4), assemble metal shield pieces (3) onto housing (4)



**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

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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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