

# Contact Probes, Receptacles

## Minimum Mounting Pitch 2.0mm / 2.54mm Series

■ **Features:** Receptacle's stopper portion is machined slightly smaller in I.D. to avoid probes from being pressed in too far.

■ **Contact Probes - Minimum Mounting Pitch 2.0mm**

NP120  
NP120HD

NR120

NR120T  
(Terminal Type)  
Applicable Terminal P.1879

■ **Contact Probes**

No.	Part	Material	Surface Treatment
①	Plunger	SK4	Rhodium Plating on Nickel Undercoat
②	Barrel	Brass	Gold Plating on Nickel Undercoat
③	Spring	SWP	Gold Plating

⚠ The receptacle has a stopper that prevents the probe from being pulled out.

■ **Receptacles**

No.	Material	Surface Treatment
④ ⑤	Brass	Gold Plating on Nickel Undercoat

### • NP120 and NP120HD Tip Shapes

■ **Contact Probes - Minimum Mounting Pitch 2.54mm**

TP604  
NP604  
NP604HD

NR604

■ **Contact Probes**

No.	Part	Material	Surface Treatment
①	Plunger	C1730B	Rhodium Plating on Nickel Undercoat
②	Barrel	German Silver	Gold Plating on Nickel Undercoat
③	Spring	Stainless Steel	

\* For NP604HD, the material of spring is SWP.  
\* For TP604, the ball material is brass.

⚠ The receptacle has a stopper that prevents the probe from being pulled out.

■ **Receptacles**

Material	Surface Treatment
Brass	Gold Plating on Nickel Undercoat

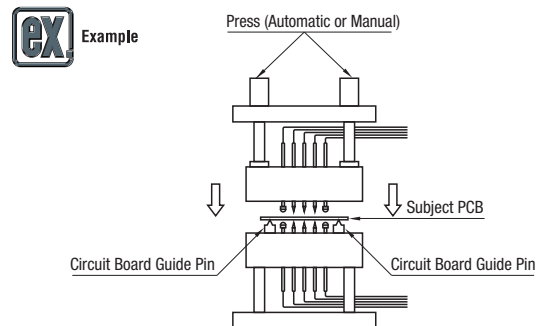
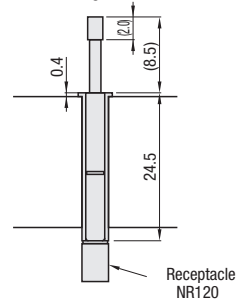
### • TP604 Tip Shapes

### • NR604 End Shapes

Applicable Terminal P.1879

### • NP604 and NP604HD Tip Shapes

**ex** Example ■ Example of Inserting Contact Probe to Receptacle



■ **Contact Probes - Minimum Mounting Pitch 2.54mm**

NP60SF  
NP60S  
NP60  
NP60H  
NP60HD

NR60

Tip Shape Selection

\*1. For Tip Shape AH or TH, the full tip length is 11.4, while for Tip Shape SH, it is 13.4.  
\*2. For NP60HD, the material of spring is SWP, and is treated with gold plating.

⚠ The receptacle has a stopper that prevents the probe from being pulled out.

■ **Contact Probes**

No.	Part	Material	Surface Treatment
①	Plunger	C1730B	Rhodium Plating on Nickel Undercoat
②	Barrel	German Silver	Gold Plating on Nickel Undercoat
③	Spring	Stainless Steel	
④	Ball	Brass	Gold Plating

■ **Receptacles**

Material	Surface Treatment
Brass	Gold Plating on Nickel Undercoat

• NP60SF, NP60S, NP60, NP60HD Tip Shapes ⚠ Tip Shape J is not available for NP60HD. \* For Tip Shape C, the material of plunger is SK4.

• NP60H Tip Shapes ⚠ For Shape TH, the material is SWRH for \*1 and SK4 for \*2.

### • NR60 End Shapes

Applicable Terminal P.1879

### ■ Contact Probes

Part Number	Mounting Pitch (min.)	Full Stroke	Spring Pressure		Allowable Current	Resistance	Replacement Cycle (Reference)	Unit Price (1-69 pc (s))	Volume Discount Rate (70-99)	Volume Discount Rate (100-500)
			Initial	2/3 Stroke						
NP120	2.0mm	6.5mm	15gf	50gf	1.5A	80mΩ	250,000 times			
NP120HD			25gf	100gf						
TP604	2.54mm	4mm	36gf	100gf	1.5A	80mΩ	300,000 times			
NP604			10gf	110gf						
NP604HD			39gf	160gf						
NP60SF	2.54mm	6.4mm	20gf	50gf	1.5A	80mΩ	300,000 times			
NP60S			20gf	100gf						
NP60			30gf	150gf						
NP60H			30gf	170gf						
NP60HD							100,000 times			

⚠ For orders larger than indicated quantity, please request a quotation.

### ■ Receptacles

⚠ For NR604 and NR60, please select the end shape.

Part Number	Matching Contact Probe	Mounting Hole for Press-Fitting Dimension (Reference)		Unit Price (1-69 pc (s))	Volume Discount Rate (70-99)	Volume Discount Rate (100-500)
		1.48-1.49mm	1.62-1.64mm			
NR120	NP120 NP120HD	1.48-1.49mm				
NR120T		1.62-1.64mm				
NR604	TP604 NP604 NP604HD	1.78-1.79mm				
NR60	NP60SF NP60S NP60 NP60H NP60HD	1.78-1.79mm				

⚠ For orders larger than indicated quantity, please request a quotation.

### ■ Receptacles with Lead Wire

Part Number	Lead Wire Color Selection	Lead Wire Length (mm)	Lead Wire	Lead	Maximum Operating Voltage	Receptacles Used	Lead Wire Length 400mm		Lead Wire Length 1000mm	
							Unit Price (1-69 pc (s))	Volume Discount Rate (70-99)	Unit Price (1-69 pc (s))	Volume Discount Rate (70-99)
NRB120	W (White) R (Red) BL (Blue)	400 1000	Ø1.0	Ø0.08x40 pcs.	250V	NR120 NR604-C NR60-C				
NRB604							Ø1.0	Ø0.08x40 pcs.		
NRB60							Ø1.0	Ø0.08x40 pcs.		

⚠ For orders larger than indicated quantity, please request a quotation.

Ordering Example

Part Number - Tip (End) Shape - Lead Wire Color - Lead Wire Length

NP120 - D - W - 1000  
 NP60SF - B - W - 400  
 NR120 - B - W - 400  
 NR604 - B - W - 400  
 NRB120 - W - 1000  
 NRB604 - W - 400