

# Contact Probes, Receptacles

## Minimum Mounting Pitch 3.0mm / 3.5mm / 4.5mm Series

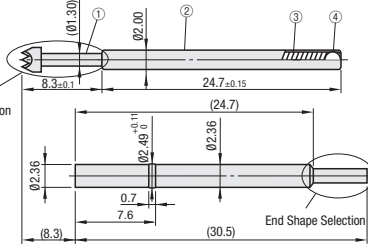
■ **Features:** Receptacle's stopper portion is machined slightly smaller in I.D. to avoid probes from being pressed in too far.

■ **Contact Probes - Minimum Mounting Pitch 3.0mm**

■ **Receptacles - Minimum Mounting Pitch 3.0mm**

**NP84SF**  
**NP84**  
**NP84HD**

**NR84**



■ **Contact Probes**

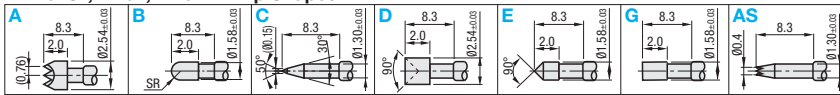
No.	Part	M Material	S Surface Treatment
①	Plunger	C1730B	Rhodium Plating on Nickel Undercoat
②	Barrel	Brass	Gold Plating on Nickel Undercoat
③	Spring	Stainless Steel	-
④	Ball	SUS	-

- Ⓜ Inside of Probe Barrel is greased.
- Ⓜ The receptacle has a stopper that prevents the probe from being pulled out.

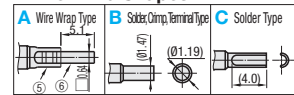
■ **Receptacles**

No.	M Material	S Surface Treatment
⑤	German Silver	Gold Plating on Nickel Undercoat
⑥	Brass	Gold Plating on Nickel Undercoat

● **NP84SF, NP84, NP84HD Tip Shapes**



● **NP84 End Shapes**



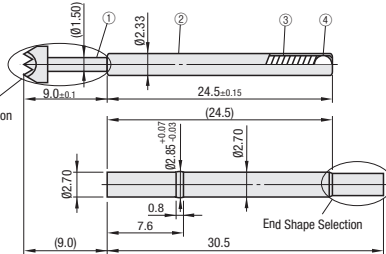
Ⓜ Applicable Terminal P:1879

■ **Contact Probes - Minimum Mounting Pitch 3.5mm**

■ **Receptacles - Minimum Mounting Pitch 3.5mm**

**NP90SF**  
**NP90**  
**NP90HD**

**NR90**



■ **Contact Probes**

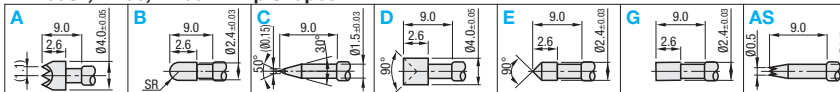
No.	Part	M Material	S Surface Treatment
①	Plunger	C1730B	Rhodium Plating on Nickel Undercoat
②	Barrel	Brass	Gold Plating on Nickel Undercoat
③	Spring	SWP	Gold Plating
④	Ball	SUJ	Gold Plating

- Ⓜ Inside of Probe Barrel is greased.
- Ⓜ The receptacle has a stopper that prevents the probe from being pulled out.

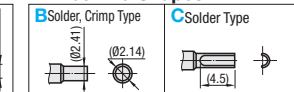
■ **Receptacles**

M Material	S Surface Treatment
German Silver	Gold Plating on Nickel Undercoat

● **NP90SF, NP90, NP90HD Tip Shapes**



● **NP90 End Shapes**

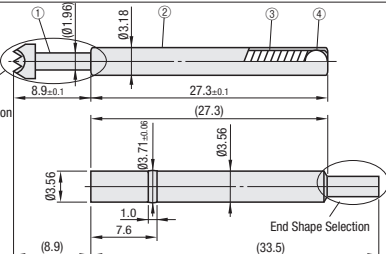


■ **Contact Probes - Minimum Mounting Pitch 4.5mm**

■ **Receptacles - Minimum Mounting Pitch 4.5mm**

**NP89SF**  
**NP89S**  
**NP89**

**NR89**



■ **Contact Probes**

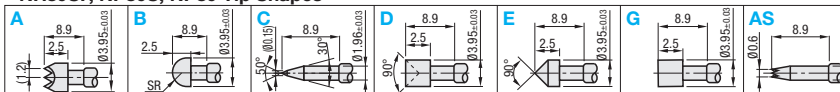
No.	Part	M Material	S Surface Treatment
①	Plunger	C1730B	Rhodium Plating on Nickel Undercoat
②	Barrel	Brass	Gold Plating on Nickel Undercoat
③	Spring	Stainless Steel	Gold Plating
④	Ball	SUJ	Gold Plating

- Ⓜ Inside of Probe Barrel is greased.
- Ⓜ The receptacle has a stopper that prevents the probe from being pulled out.

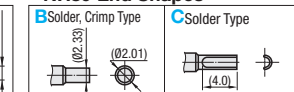
■ **Receptacles**

M Material	S Surface Treatment
German Silver	Gold Plating on Nickel Undercoat

● **NR89SF, NP89S, NP89 Tip Shapes**



● **NR89 End Shapes**



■ **Contact Probes**

Part Number	Mounting Pitch (min.)	Full Stroke	Spring Pressure		Allowable Current	Resistance	Replacement Cycle Reference	Unit Price/Volume Discount Rate		
			Initial	2/3 Stroke				1 - 69 pc (s)	70 - 99	100 - 500
NP84SF	3.0mm	6.3mm	10gf	50gf	1.5A	80mΩ	300,000 times			
NP84			45gf	126gf						
NP84HD			77gf	200gf						
NP90SF	3.5mm (4.5mm)	6.4mm	10gf	50gf	1.5A	80mΩ	300,000 times			
NP90			40gf	150gf						
NP90HD			146gf	250gf						
NP89SF	4.5mm	6.4mm	30gf	100gf	1.5A	80mΩ	300,000 times			
NP89S			84gf	275gf						
NP89			170gf	450gf						

Ⓜ Mounting Pitch in ( ) is applicable to Tip Shape A and D.

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

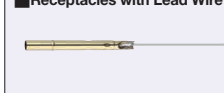
■ **Receptacles**

Part Number	Matching Contact Probe	Mounting Hole for Press-Fitting Dimension (Reference)	Unit Price/Volume Discount Rate		
			1 - 69 pc (s)	70 - 99	100 - 500
NR84	NP84SF NP84 NP84HD	2.41-2.46mm			
NR90	NP90SF NP90 NP90HD	2.77-2.82mm			
NR89	NP89SF NP89S NP89	3.58-3.63mm			

Ⓜ For NR84, NR89 and NR90, please select the end shape.

Ⓜ 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	Receptacles Used	Lead Wire Length 400mm			Lead Wire Length 1000mm		
						Unit Price/Volume Discount Rate	Unit Price/Volume Discount Rate	Unit Price/Volume Discount Rate	Unit Price/Volume Discount Rate	Unit Price/Volume Discount Rate	Unit Price/Volume Discount Rate
NRB84	W (White)	400	Ø1.0	Ø0.08x40 pcs.	NR84-C						
NRB90	R (Red)	1000	Ø1.0	Ø0.08x40 pcs.	NR90-C						
NRB89	BL (Blue)		Ø1.0	Ø0.08x40 pcs.	NR89-C						

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

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

Example: NP84 - G - W - 1000

              NR90 - B - BL - 400

              NR84 - W - 1000

              NR89 - BL - 400