

# Contact Probes, Receptacles

## Minimum Mounting Pitch 1.27mm Series

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

■ **Contact Probes**

NP30  
NP30HD

■ **Receptacles**

NR30K  
NR30SH-B

\*1. For tip shape K or AA, the diameter is  $\phi 0.49$ .  
\*2. The tip length of certain tip shape is 4.0.

Tip Shape Selection (00.49)

There is a taper of -0.02 to -0.03mm from the bottom of the flange to the end.

There is a taper of -0.01 to -0.02mm from the bottom of the press-fit ring to the end.

Stopper

End Shape Selection

⚠ 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	Gold Plating

\* For NP30HD, the material of spring is SWP.

■ **Receptacles**

Material	Surface Treatment
Brass	Gold Plating on Nickel Undercoat

■ **NP30 and NP30HD Tip Shapes** ⚠ Tip Shapes E and J are not available for NP30HD. ⚠ For NP30, no plating is applied to the spring.

**A** (Quartered)

**B**

**C**

**D**

**E**

**G**

**GF**

**H** (Quartered)

**J**

■ **NP30 Tip Shapes** ⚠ The material of plunger is SK4. ⚠ The material of spring is SWP.

**C40**

**G40**

**H40** (Quartered)

**J40**

**K**

**AA**

**AH**

**AS**

■ **NR30K End Shapes**

**B** Solder, Crimp Type

**C** Solder Type

■ **Contact Probes**

NP72  
NP72HD

■ **Receptacles**

NR72K

Tip Shape Selection (00.54)

There is a taper of -0.01 to -0.02mm from the bottom of the flange to the end.

Stopper

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

■ **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

■ **Receptacles**

Material	Surface Treatment
Brass	Gold Plating on Nickel Undercoat

■ **NP72 and NP72HD Tip Shapes** ⚠ Tip Shapes E and J are not available for NP72HD.

**A**

**B**

**C**

**D**

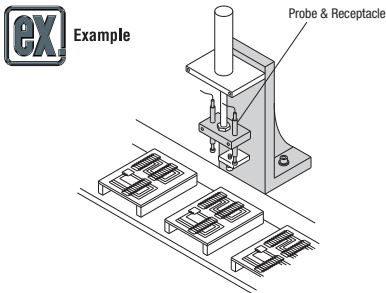
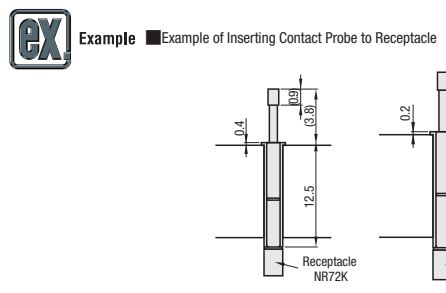
**E**

**G**

**H**

**J**

**N**



■ **Contact Probes**

NP68S3SF  
NP68S3

■ **Receptacles**

NR68  
NR68S

Tip Shape Selection (00.49)

There is a taper of -0.01 to -0.02mm from the bottom of the flange to the end.

Stopper

End Shape as Shown Below

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

■ **Contact Probes**

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

■ **Receptacles**

Material	Surface Treatment
Brass	Gold Plating on Nickel Undercoat

■ **NP68S3SF and NP68S3 Tip Shapes** ⚠ Tip Shape K is not available for NP68S3.

**A**

**B**

**D**

**E**

**G**

**K**

■ **Receptacles End Shapes**

**NR68** Solder, Crimp Type

**NR68S** Solder Type

■ **Contact Probes**

NP76

■ **Receptacles**

NR76

Tip Shape Selection (00.48)

Stopper

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

■ **Contact Probes**

No.	Part	Material	Surface Treatment
①	Plunger	C1730B	Gold Plating on Nickel Undercoat
②	Barrel	Brass	Gold Plating on Nickel Undercoat
③	Spring	SWP	Gold Plating

■ **Receptacles**

Material	Surface Treatment
Phosphor Bronze	Gold Plating on Nickel Undercoat

■ **NP76 Tip Shapes**

**A**

**C**

**D**

**H** (Quartered)

**AS**

■ **Contact Probes**

Part Number	Mounting Pitch (min.)	Full Stroke	Spring Pressure		Allowable Current	Resistance	Replacement Cycle Reference	Unit Price 1 - 69 pcs	Volume Discount Rate 70 - 99	Volume Discount Rate 100 - 500
			Initial	2/3 Stroke						
NP30	1.27mm	2.5mm (2.0mm)	5gf (40gf)	45gf (80gf)	1A	100mΩ	50,000 times			
NP30HD			15gf	46gf						
NP72	1.27mm	2.5mm	30gf	50gf	1A	80mΩ	25,000 times			
NP72HD			15gf	100gf						
NP68S3SF	1.27mm	4.3mm	25gf	50gf	2A	80mΩ	30,000 times			
NP68S3			30gf	90gf						
NP76	1.27mm	6.0mm	60gf	150gf	1.3A	80mΩ	300,000 times			

⚠ Full Stroke in ( ) is applicable to Tip Shape C40, E40, G40, H40, J40, K, AA, AH and AS. ⚠ For orders larger than indicated quantity, please request a quotation.

■ **Receptacles** ⚠ For NR30K, NR68 and NR68S, please select the end shape.

Part Number	Matching Contact Probe	Mounting Hole for Press-Fitting Dimension (Reference)	Unit Price 1 - 69 pcs	Volume Discount Rate 70 - 99	Volume Discount Rate 100 - 500
NR30SH-B	NP30HD	0.87 - 0.88mm			
NR72K	NP72	0.88 - 0.89mm			
	NP72HD	0.88 - 0.89mm			
NR68	NP68S3SF	0.83 - 0.84mm			
NR68S	NP68S3				
NR76	NP76	0.97 - 0.98mm			

⚠ 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 Unit Price Volume Discount Rate 1 - 69 pcs	Lead Wire Length 1000mm Unit Price Volume Discount Rate 70 - 99	Lead Wire Length 1000mm Unit Price Volume Discount Rate 100 - 500
NRKB30			00.4	00.08x7 pcs.	250V	NR30K-B NR30SH-B NR72K NR68 NR76			
NRSHB30			00.4	00.08x7 pcs.					
NRKB72	W (White) R (Red) BL (Blue)	400 1000	00.63	00.12x7 pcs.					
NRB68			00.63	00.12x7 pcs.					
NRB68S			00.63	00.12x7 pcs.					
NRB76			00.63	00.12x7 pcs.					

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

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

Example: NP30 - A - W - 1000

Example: NP68S3SF - B - R - 1000

Example: NR30K - B - BL - 1000

Example: NR72K - NR72K - BL - 1000

Example: NR68 - NR68 - BL - 1000

Example: NR76 - NR76 - BL - 1000