Contact Probes, Receptacles

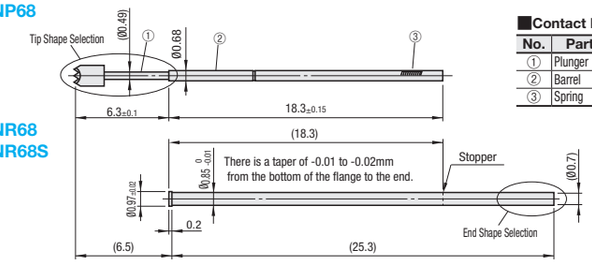
Minimum Mounting Pitch 1.4mm / 1.5mm / 1.7mm Series

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 1.4mm

Receptacles - Minimum Mounting Pitch 1.4mm

NP68SF
NP68



NR68
NR68S

Contact Probes

No.	Part	Material	Surface Treatment
①	Plunger	ISO-TC90 Equiv.	Rhodium Plating on Nickel Undercoat
②	Barrel	Phosphor Bronze	Gold Plating on Nickel Undercoat
③	Spring	Spring Steel (JIS-SWP)	Gold Plating

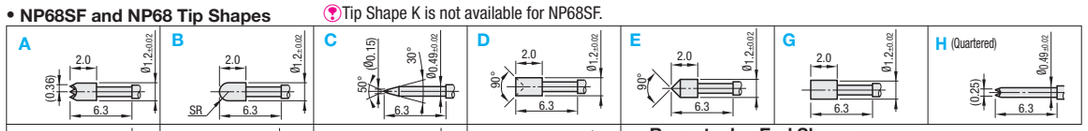
The receptacle has a stopper that prevents the probe from being pulled out.

Receptacles

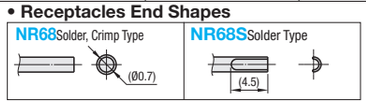
Material	Surface Treatment
Brass	Gold Plating on Nickel Undercoat

• NP68SF and NP68 Tip Shapes

Tip Shape K is not available for NP68SF.



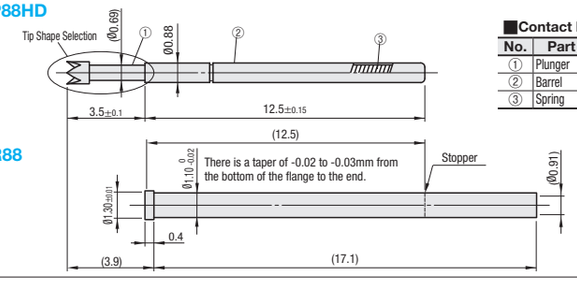
• Receptacles End Shapes



Contact Probes - Minimum Mounting Pitch 1.5mm

Receptacles - Minimum Mounting Pitch 1.5mm

NP88
NP88HD



NR88

Contact Probes

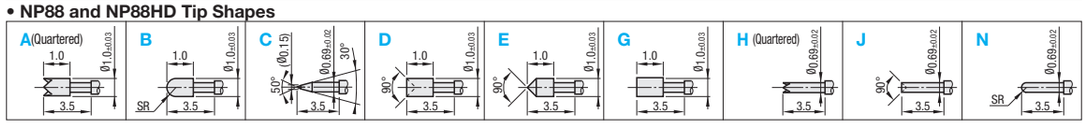
No.	Part	Material	Surface Treatment
①	Plunger	ISO-TC90 Equiv.	Rhodium Plating on Nickel Undercoat
②	Barrel	Brass	Gold Plating on Nickel Undercoat
③	Spring	Spring Steel (JIS-SWP)	Gold Plating

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

Receptacles

Material	Surface Treatment
Brass	Gold Plating on Nickel Undercoat

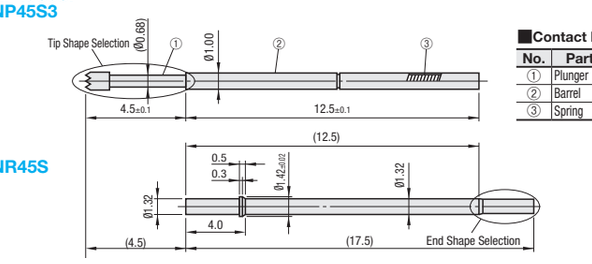
• NP88 and NP88HD Tip Shapes



Contact Probes - Minimum Mounting Pitch 1.7mm

Receptacles - Minimum Mounting Pitch 1.7mm

NP45S3SF
NP45S3



NR45S

Contact Probes

No.	Part	Material	Surface Treatment
①	Plunger	ISO-TC90 Equiv.	Rhodium Plating on Nickel Undercoat
②	Barrel	Brass	Gold Plating on Nickel Undercoat
③	Spring	Stainless Steel	-

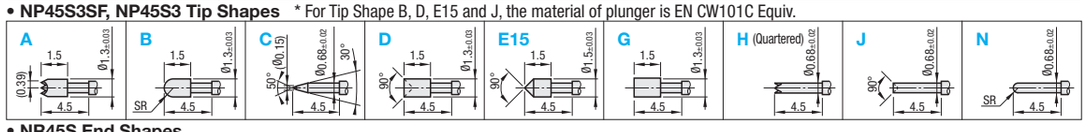
The receptacle has a stopper that prevents the probe from being pulled out.

Receptacles

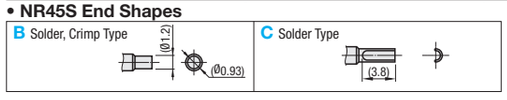
Material	Surface Treatment
Brass	Gold Plating on Nickel Undercoat

• NP45S3SF, NP45S3 Tip Shapes

* For Tip Shape B, D, E15 and J, the material of plunger is EN CW101C Equiv.



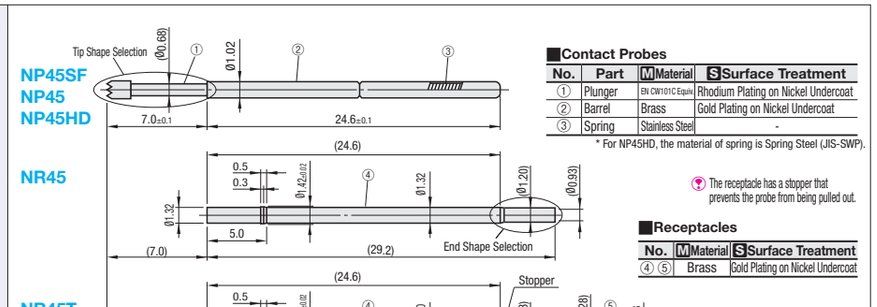
• NR45S End Shapes



Contact Probes - Minimum Mounting Pitch 1.7mm

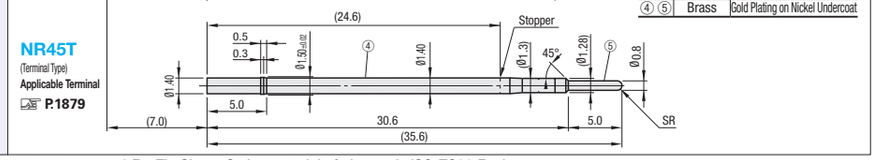
Receptacles - Minimum Mounting Pitch 1.7mm

NP45SF
NP45
NP45HD



NR45

NR45T
(Terminal Type)
Applicable Terminal
P.1879



Contact Probes

No.	Part	Material	Surface Treatment
①	Plunger	EN CW101C Equiv.	Rhodium Plating on Nickel Undercoat
②	Barrel	Brass	Gold Plating on Nickel Undercoat
③	Spring	Stainless Steel	-

* For NP45HD, the material of spring is Spring Steel (JIS-SWP).

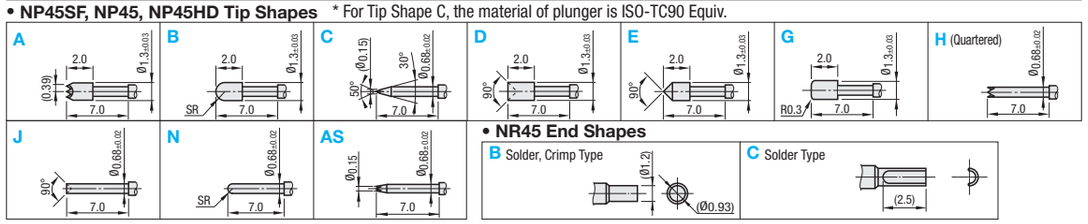
The receptacle has a stopper that prevents the probe from being pulled out.

Receptacles

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

• NP45SF, NP45, NP45HD Tip Shapes

* For Tip Shape C, the material of plunger is ISO-TC90 Equiv.



• NR45 End Shapes

Contact Probes

Part Number	Mounting Pitch (min.)	Full Stroke	Spring Pressure Initial	Spring Pressure 2/3 Stroke	Allowable Current	Resistance	Replacement Cycle (Reference)	Unit Price 1 ~ 69 pc(s).	Volume Discount Rate 70~99	Volume Discount Rate 100~500
NP68SF	1.4mm	4.3mm	25gf	50gf	2.5A	60mΩ	100,000 times			
NP68			30gf	90gf						
NP88	1.5mm	2.5mm	10gf	50gf	3A	60mΩ	250,000 times			
NP88HD			30gf	100gf						
NP45S3SF	1.7mm	3.0mm	25gf	50gf	3A	60mΩ	300,000 times			
NP45S3			30gf	100gf						
NP45SF	1.7mm	5.0mm	10gf	50gf	3A	60mΩ	300,000 times			
NP45			30gf	100gf						
NP45HD			40gf	150gf						

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

Receptacles

For NR68, NR68S, NR45S and NR45, 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
NR68	NP68SF NP68	0.83~0.84mm			
NR68S					
NR88	NP88 NP88HD	1.08~1.09mm			
NR45S	NP45S3SF NP45S3	1.39~1.41mm			
NR45	NP45SF NP45 NP45HD	1.39~1.41mm			
NR45T		1.47~1.49mm			

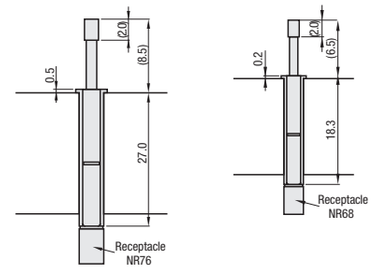
For orders larger than indicated quantity, please request a quotation.

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 1 ~ 69 pc(s).	Lead Wire Length 400mm Volume Discount Rate 70~99	Lead Wire Length 400mm Volume Discount Rate 100~500	Lead Wire Length 1000mm Unit Price 1 ~ 69 pc(s).	Lead Wire Length 1000mm Volume Discount Rate 70~99	Lead Wire Length 1000mm Volume Discount Rate 100~500
NRB68	W (White) R (Red) BL (Blue)	400 1000	Ø0.63	Ø0.12x7 pcs.	250V	NR68						
NRB88			Ø0.63	Ø0.12x7 pcs.		NR88						
NRSB45			Ø1.0	Ø0.08x40 pcs.		NR45S-B						
NRB45			Ø1.0	Ø0.08x40 pcs.		NR45-B						

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

Ordering Example

Part Number		Tip (End) Shape		Lead Wire Color		Lead Wire Length
NP68SF	-	A				
NP88	-	C				
NR88						
NR45S	-	B				
NRB68			-	W	-	1000
NRSB45			-	W	-	400

Example Example of Inserting Contact Probe to Receptacle