

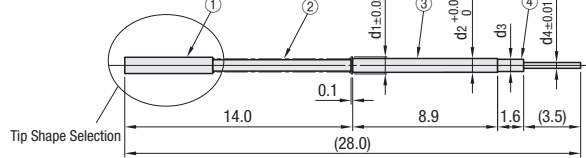
Contact Probes Assemblies

Standard, Screw Mounting, Resin Sleeve, Spring Built-In, Thread Wire Connection

Integrated Probe Assembly Features: One-piece Contact Probe is constructed by one continuous pin from the tip to the end. Less contact points and good conductivity enable stable electrical continuity, regardless of the stroke length.

Standard

GNP6
GNP8
GNP12



Applicable Terminal P1879

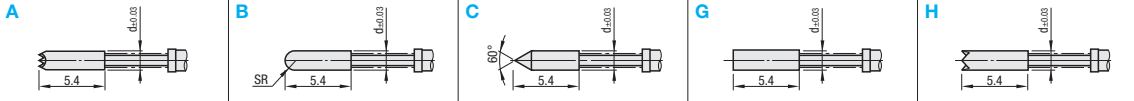
The matching end also strokes according to the stroke of the contact component.

Part Number	d	d1	d2	d3	d4
GNP6	0.6	0.65	0.5	(0.45)	0.3
GNP8	0.8	0.8	0.6	(0.55)	0.4
GNP12	1.2	1.25	1.05	(0.95)	0.8

No.	Part	Material	Surface Treatment
①	Plunger	SK4	Gold Plating on Nickel Undercoat
②	Spring	SWP	Gold Plating
③	Sleeve	Brass*	Gold Plating on Nickel Undercoat
④	Collar	Brass	Nickel Plating

*The material of GNP6 is Phosphor Bronze.

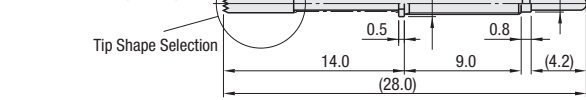
• GNP6, GNP8, GNP12 Tip Shapes



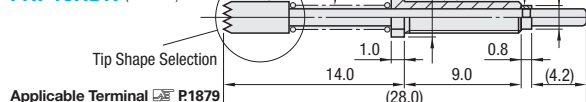
Features: Screw Mounting Type allows height adjustments.

Screw Mounting

FNP10
FNP10N (with Nut)
FNP10HDN (with Nut)



FNP13
FNP13N (with Nut)
FNP13HDN (with Nut)



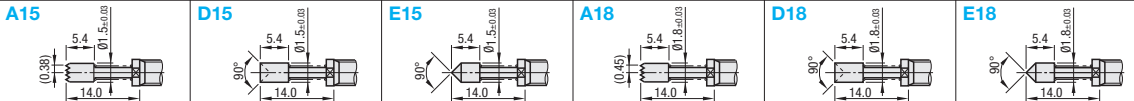
The matching end also strokes according to the stroke of the contact component.

No.	Part	Material	Surface Treatment
①	Plunger	SK4	Gold Plating on Nickel Undercoat
②	Spring	SWP	Gold Plating
③	Sleeve	SK4	Nickel Plating
④	Collar	Brass	Gold Plating on Nickel Undercoat

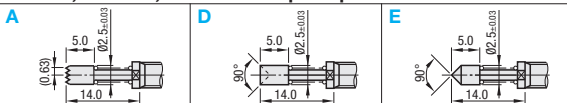
Part	Material	B	(e)	T
Nut (FNP10N)	SUS304 Equivalent	4	4.6	1.6
Nut (FNP13N)	SUS304 Equivalent	5	5.8	2

Applicable Terminal P1879

• FNP10, FNP10N, FNP10HDN Tip Shapes



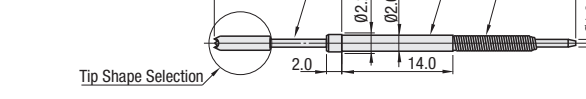
• FNP13, FNP13N, FNP13HDN Tip Shapes



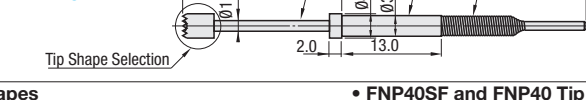
Features: Resin Sleeve Type has resin sleeves, and can be used to avoid electrical continuity of fixtures.

Resin Sleeve

FNP22SF
FNP22



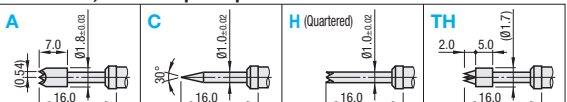
FNP40SF
FNP40



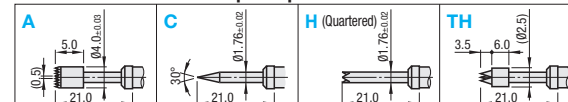
* For TH shape, this dimension is 34.0.
The matching end also strokes according to the stroke of the contact component.

No.	Part	Material	Surface Treatment
①	Plunger	SK4	Nickel Plating
②	Sleeve	Polycetal	-
③	Spring	Stainless Steel	-

• FNP22SF, FNP22 Tip Shapes



• FNP40SF and FNP40 Tip Shapes



For Shape A, the material of head and shaft is brass and SK4 respectively.

For Shape TH, the material of holder is BS and that of needle is SWRH.

For Shape A, the material of head and shaft is SK4 and SWRH respectively.

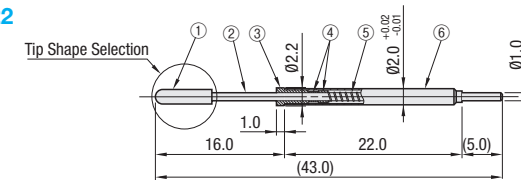
For Tip Shape C, the material of plunger is SWRH.

For Shape TH, the material of holder is BS and that of needle is SWRH.

Features: Spring Built-In Type houses a spring, which causes no external interference and keeps out dust.

Spring Built-In

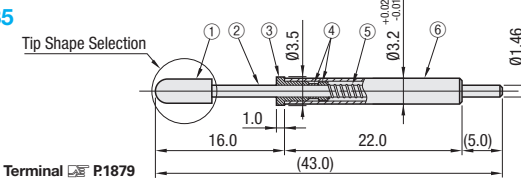
FNPS22



The matching end also strokes according to the stroke of the contact component.

No.	Part	Material	Surface Treatment
①	Head	Brass	Electroless Nickel Plating
②	Plunger	SWRH	Nickel Plating
③	Bearing	Brass	Electroless Nickel Plating
④	Collar	SUS	-
⑤	Spring	SWP	Gold Plating
⑥	Sleeve	German Silver	Electroless Nickel Plating

FNPS35

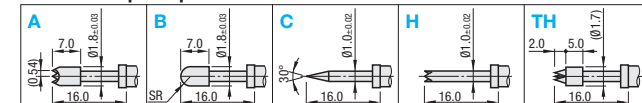


The matching end also strokes according to the stroke of the contact component.

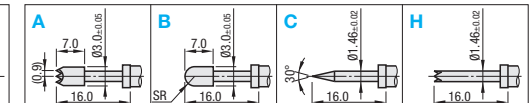
No.	Part	Material	Surface Treatment
①	Head	Brass	Electroless Nickel Plating
②	Plunger	SK4	Electroless Nickel Plating
③	Bearing	Brass	Electroless Nickel Plating
④	Collar	Brass	Electroless Nickel Plating
⑤	Spring	SUS	-
⑥	Sleeve	Brass	Electroless Nickel Plating

Applicable Terminal P1879

• FNPS22 Tip Shapes



• FNPS35 Tip Shapes

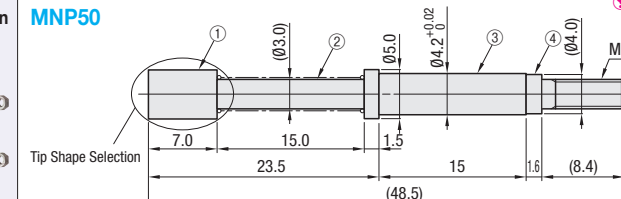


For Shape TH, the material of holder is BS and that of needle is SWRH.

Features: No soldering is required as round crimp terminals and round lead wires are tucked in the threads and secured with nuts.

Thread Wire Connection

MNP50



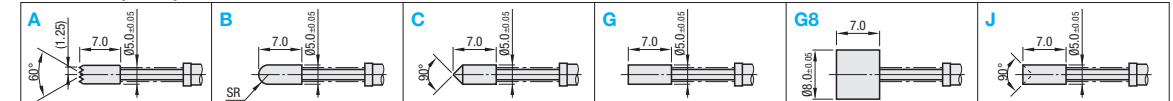
The matching end also strokes according to the stroke of the contact component.

No.	Part	Material	Surface Treatment
①	Plunger	SK4	Gold Plating on Nickel Undercoat
②	Spring	SWP	Gold Plating
③	Sleeve	Brass	Gold Plating on Nickel Undercoat
④	Collar	Brass	Nickel Plating
⑤	Nut	SUS	-

Accessory: Nut (2 pcs.)

Avoid tightening the nut exceeding the torque value of 0.98 N · m.

• MNP50 Tip Shapes

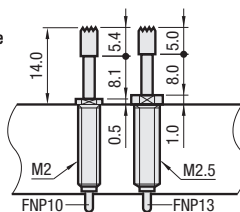


Part Number	Mounting Pitch (min.)	Full Stroke	Spring Pressure		Allowable Current	Resistance	Replacement Cycle (Reference)	Mounting Hole (or Press-Fitting Dimension) (Reference)	Unit Price/Volume Discount Rate		
			Initial	2/3 Stroke					1 - 69 pc (s)	70 - 99	100 - 500
GNP6	0.8mm	3.4mm	26gf	80gf	0.5A	50mΩ	100,000 times	0.48-0.5mm			
GNP8	1.0mm	3.4mm	23gf	80gf	1A		300,000 times	0.58-0.6mm			
GNP12	1.5mm	4.0mm	32gf	95gf	3A			1.03-1.05mm			
FNP10	3.0mm	4.5mm	60gf	105gf	3A	80mΩ	300,000 times	M2×0.25			
FNP10N (with Nut)	(6.0mm)		56gf	175gf							
FNP10HDN (with Nut)			56gf	175gf							
FNP13	5.0mm	4.0mm	60gf	100gf	3A	80mΩ	300,000 times	M2.5×0.35			
FNP13N (with Nut)	(7.0mm)		58gf	175gf							
FNP13HDN (with Nut)			58gf	175gf							
FNP22SF	3.0mm	7.0mm	0gf	100gf	3A	80mΩ	300,000 times	1.98-2.00mm			
FNP22			0gf	150gf							
FNP40SF	5.0mm	17.0mm*	0gf	220gf	3A	80mΩ	300,000 times	3.48-3.50mm			
FNP40			0gf	300gf							
FNPS22	3.0mm	8.0mm	51gf	180gf	3A	80mΩ	300,000 times	1.98-2.00mm			
FNPS35	4.0mm	8.0mm	66gf	200gf							
MNP50	7.0mm<9.0mm>	7.6mm	228gf	455gf	5A	35mΩ	300,000 times	4.18-4.2mm			

Mounting pitches in () are applicable to the contact probes with nut. MNP50 mounting pitches in < > are applicable to G8 tip shape. * Tip shape A is 14.0mm, and TH is 9.5mm.



Part Number	Tip Shape
GNP12	G
FNP10N	E15
FNP13	A
MNP50	G8



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