

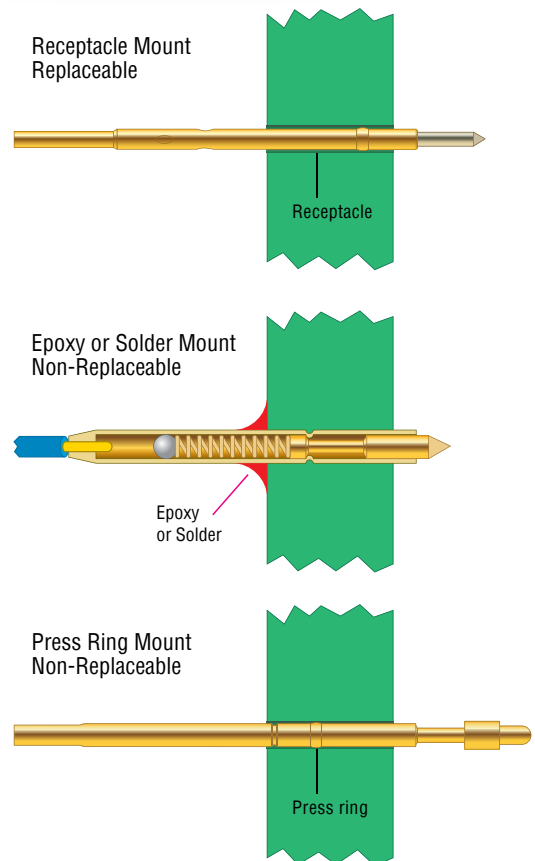
GENERAL PURPOSE - REPLACEABLE PROBES

Replaceable Probes are those designed for typical Automotive and Industrial Board Test and standard continuity test, contacting industry norm test points such as leads, vias and pads.

All of the probes in this section are designed for high volume testing and are replaceable through the use of a mating receptacle mounted into a retaining plate or retaining block via a “press-ring” or knurl.

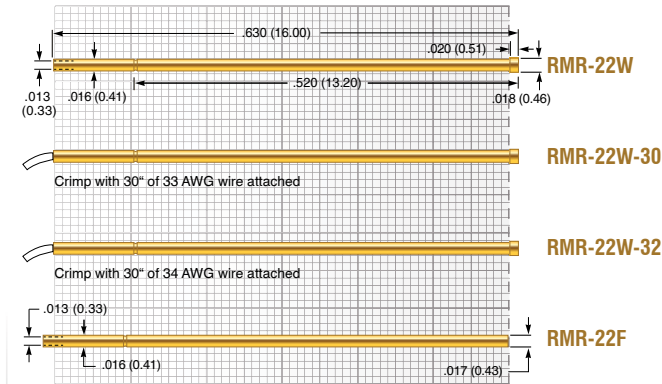
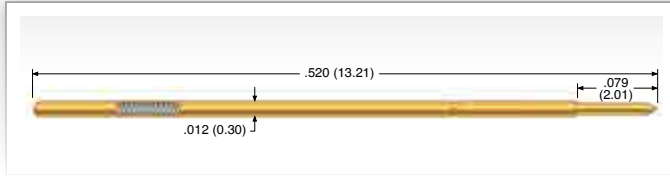
A replaceable probe is retained by a separate component, the receptacle, which is permanently fixed into a retention plate to which electrical connection is made. Removal of the probe does not damage or break the electrical connection. Typical probe retention is achieved by detents in the receptacle or additionally with a “Pylon” bend in the probe itself to prevent anti walkout.

ECT offers an extensive selection of General Purpose Probes for a wide variety of application in various industries, making ECT spring probes the first choice of test engineers worldwide.



RMP-22B

20 mil (0.51 mm)



Mechanical

Recommended Travel:	.052 (1.33)
Full Travel:	.079 (2.01)
Operating Temperature:	-55°C to +105°C

Spring Force in oz. (grams)

	Preload	Rec. Travel
Standard	0.51 (14)	1.69 (48)

Electrical (Static Conditions)

Current Rating:	2 amps
Average Probe Resistance:	<125 mOhms

Materials and Finishes

Plunger:	Heat-treated Steel, Nickel Boron plated
Barrel:	BeCu alloy, Gold plated
Spring:	Music Wire, Gold plated

Receptacle

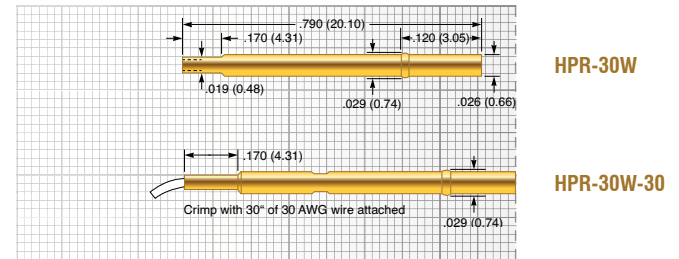
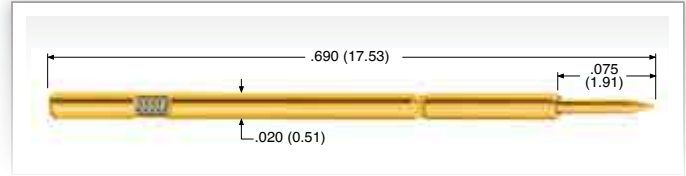
Hole diameter:	Ø .016 to .017 (0.41 to 0.43)
Suggested drill:	#78 or 0.42 mm
Material Housing:	Heat-treated BeCu, Gold plated over hard Nickel

Tip Style

B				
Ø .008 (0.20)				

MEP-30

30 mil (0.76 mm)



Mechanical

Recommended Travel:	.050 (1.27)
Full Travel:	.075 (1.91)
Operating Temperature:	-55°C to +105°C

Spring Force in oz. (grams)

	Preload	Rec. Travel
Standard	0.39 (11)	1.39 (39)

Electrical (Static Conditions)

Current Rating:	2 amps
Average Probe Resistance:	<50 mOhms

Materials and Finishes

Plunger:	Heat-treated BeCu, Gold plated over hard Nickel
Barrel:	Work hardened BeCu, Gold plated over hard Nickel
Spring:	Music Wire, Gold plated

Receptacle

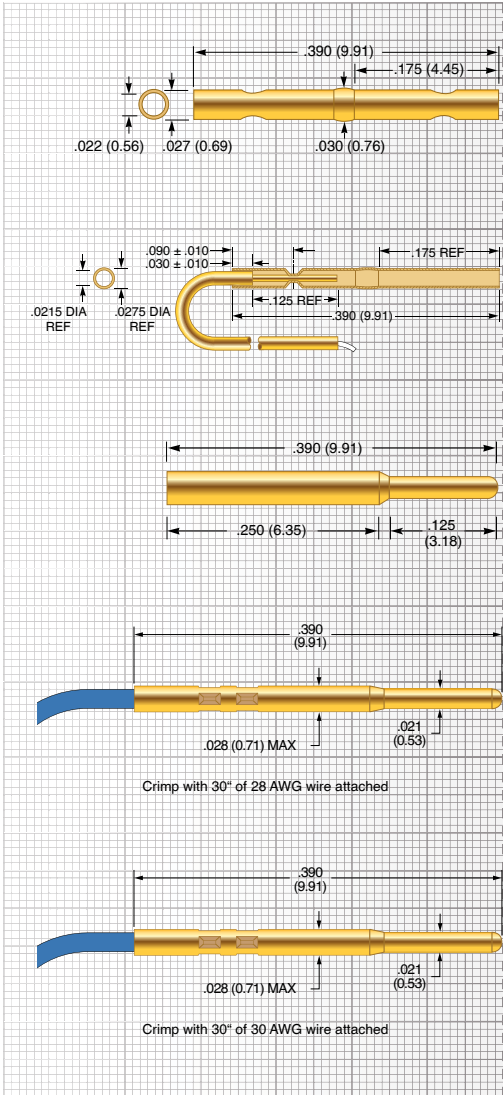
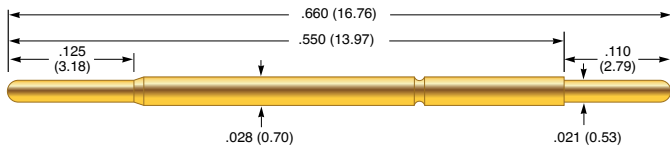
Hole diameter:	Ø .0265 to .0276 (0.67 to 0.70)
Suggested drill:	#71 or 0.70 mm
Material:	Work hardened BeCu, Gold plated over hard Nickel

Tip Style

B	G	J	U	
Ø .014 (0.36)	Ø .014 (0.36)	Ø .014 (0.36)	Ø .012 (0.30)	

HPA-40

39 mil (1.00 mm)



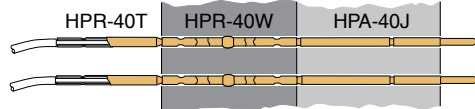
HPR-40W

HPR-40W-30

HPR-40T

HPR-40T-28

HPR-40T-30



Mechanical

Recommended Travel: .050 (1.27)
 Full Travel: .075 (1.91)
 Operating Temperature: -55°C to +150°C

Spring Force in oz. (grams)

	Preload	Rec. Travel
Standard	0.79 (22)	1.75 (49)

Electrical (Static Conditions)

Current Rating: 2 amps
 Average Probe Resistance: <35 mOhms

Materials and Finishes

Plunger: Heat-treated BeCu, Gold plated over hard Nickel
 Barrel: Work hardened Nickel Silver, Gold plated over hard Nickel
 Spring: Stainless Steel, Silver plated

Receptacle

Hole diameter: Ø .028 (0.70)
 Suggested drill: #70 or 0.70 mm
 Material Housing: Work hardened Nickel Silver, Gold plated over hard Nickel

Tip Style

A	B	C	G	J
Ø .035 (0.89)	Ø .021 (0.53)	Ø .021 (0.53)	Ø .021 (0.53)	Ø .021 (0.53)

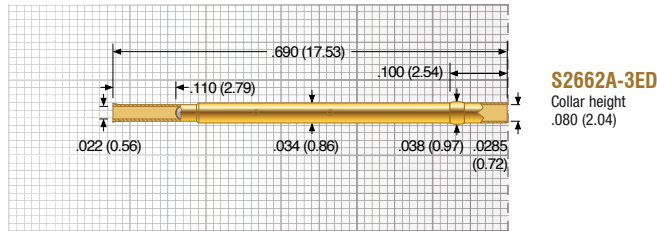
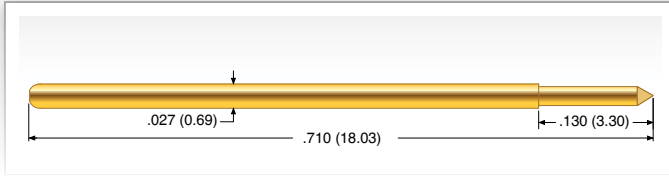
Dimensions in inches (millimeters). Specifications subject to change without notice. Consult factory for other temperature requirements, and applications below -40°C. Stocking Disclaimer: Stocking levels for part numbers listed in this catalog are subject to change. Availability is based on current levels of usage and demand.



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P2662A

50 mil (1.27 mm)



S2662A-3ED
Collar height
.080 (2.04)

Mechanical

Recommended Travel: .067 (1.70)
Full Travel: .090 (2.29)
Operating Temperature: -55°C to +85°C

Spring Force in oz. (grams)

	Order Code	Preload	Rec. Travel
Standard	1	0.70 (20)	1.7 (48)
Alternate	2	0.60 (17)	2.5 (71)

Electrical (Static Conditions)

Current Rating: 3 amps
Average Probe Resistance: <30 mOhms

Materials and Finishes

Plunger: Heat-treated BeCu, Gold plated over hard Nickel
Barrel: Phosphorous Bronze, Gold plated
Spring: BeCu, Silver plated
Ball: Stainless Steel

Receptacle

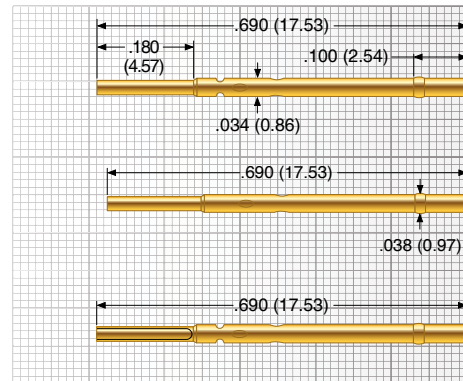
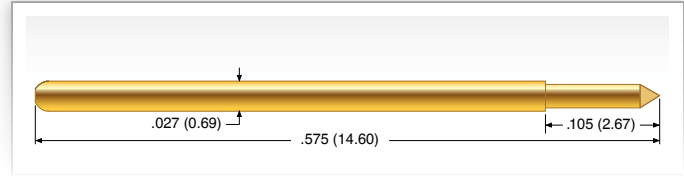
Hole diameter: Ø .0350 to .0365 (0.89 to 0.93)
Suggested drill: #64 or 0.92 mm
Material Housing: Nickel Silver, Gold plated

Tip Style

1C	1Q	1R	2V
Ø .021 (0.53)	Ø .021 (0.53)	Ø .021 (0.53)	Ø .040 (1.02)
		r = .013 (0.33)	

P2662B

50 mil (1.27 mm)



PR261-0
Collar height
= .040 (1.02)

PR261-0F
Flush Mount

PR261-1
Collar height
= .040 (1.02)

PR261-1F
Flush Mount

Mechanical

Recommended Travel: .050 (1.27)
Full Travel: .068 (1.73)
Operating Temperature: -55°C to +85°C

Spring Force in oz. (grams)

	Order Code	Preload	Rec. Travel
Standard	1	1.00 (28)	1.8 (51)
Alternate	2	0.50 (14)	2.5 (71)

Electrical (Static Conditions)

Current Rating: 3 amps
Average Probe Resistance: <30 mOhms

Materials and Finishes

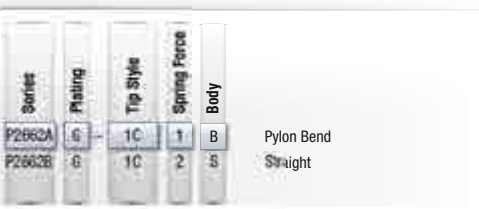
Plunger: Heat-treated BeCu, Gold plated over hard Nickel
Barrel: Phosphorous Bronze, Gold plated
Spring: BeCu, Silver plated
Ball: Stainless Steel

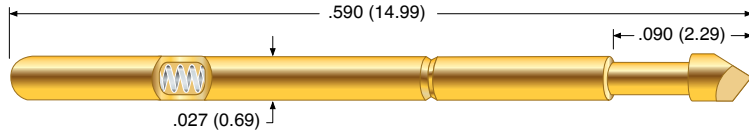
Receptacle

Hole diameter: Ø .0350 to .0365 (0.89 to 0.93)
Suggested drill: #64 or 0.92 mm
Material Housing: Nickel Silver, Gold plated

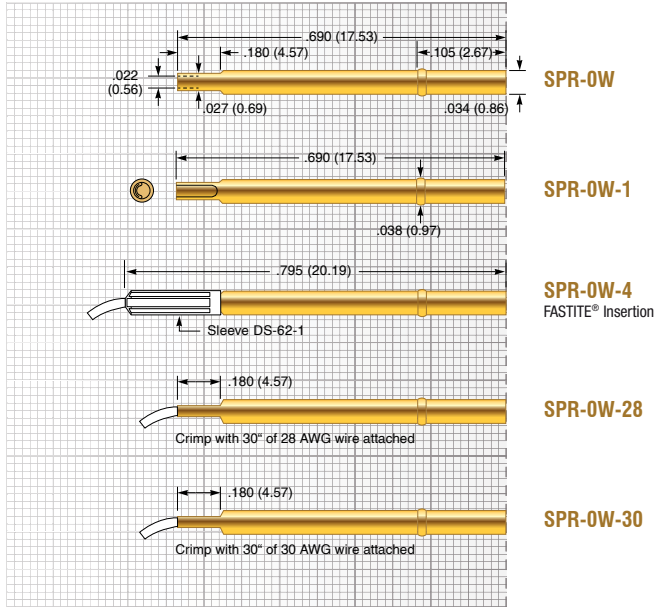
Tip Style

1C	1Q	1R	2V
Ø .021 (0.53)	Ø .021 (0.53)	Ø .021 (0.53)	Ø .040 (1.02)
		r = .013 (0.33)	





HPA-50
50 mil (1.27 mm)



Mechanical

Recommended Travel: .050 (1.27)
Full Travel: .050 (1.27)
Operating Temperature: -55°C to +105°C

Spring Force in oz. (grams)

	Preload	Rec. Travel
Standard	1.55 (44.00)	3.2 (91)

Electrical (Static Conditions)

Current Rating: 3 amps
Average Probe Resistance: <35 mOhms

Materials and Finishes

Plunger: Heat-treated BeCu, Gold plated over hard Nickel
Barrel: Work hardened Phosphor Bronze, Gold plated over hard Nickel
Spring: Music Wire, Gold plated

Receptacle

Hole diameter: Ø .035 to .0365 (0.89 to 0.93)
Suggested drill: #64 or 0.92 mm
Material Housing: Work-hardened Nickel Silver, Gold plated over hard Nickel

Tip Style

B	D	G	T	U		
Ø .021 (0.53)	Ø .035 (0.89)	Ø .021 (0.53)	Ø .035 (0.89)	Ø .018 (0.46)		

Dimensions in inches (millimeters). Specifications subject to change without notice. Consult factory for other temperature requirements, and applications below -40°C. Stocking Disclaimer: Stocking levels for part numbers listed in this catalog are subject to change. Availability is based on current levels of usage and demand.

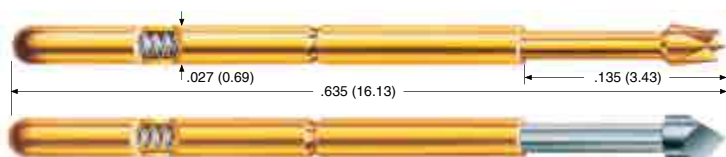


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HPA-0 / SPA-0

50 mil (1.27 mm)



Mechanical

Recommended Travel: .067 (1.70)

Full Travel: .100 (2.54)

Operating Temperature

- Standard Spring: -55°C to +150°C

- Alternate Spring: -55°C to +105°C

Spring Force in oz. (grams)

	Order Code	Preload	Rec. Travel
Standard		0.61 (17)	2.80 (79)
Alternate	- 1	0.78 (22)	3.70 (105)

Electrical (Static Conditions)

Current Rating: 3 amps

Average Probe Resistance HPA: < 35 mOhms

Average Probe Resistance SPA: < 50 mOhms

Materials and Finishes

Plunger HPA: Heat-treated BeCu,
Gold plated over hard Nickel

Plunger SPA: Heat-treated BeCu,
Rhodium plated over hard Nickel

Barrel: Work hardened Phosphor Bronze,
Gold plated over hard Nickel

Spring

- Standard: Stainless Steel, Silver plated

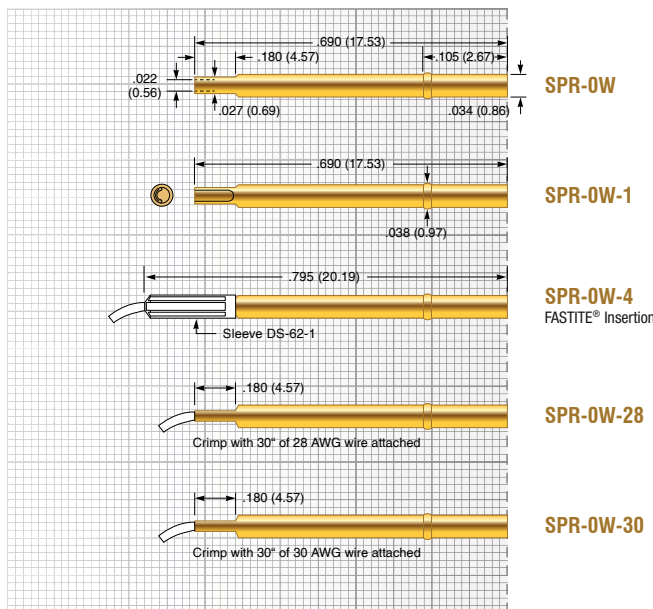
- Alternate: Music Wire, Silver plated

Receptacle

Hole diameter: Ø .035 to .0365 (0.89 to 0.93)

Suggested drill: #64 or 0.92 mm

Material Housing: Work-hardened Nickel Silver,
Gold plated over hard Nickel



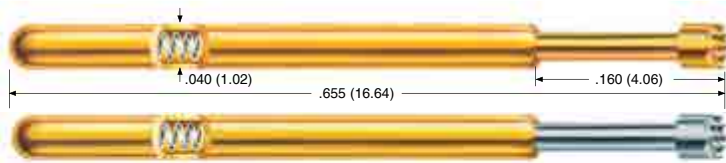
HPA Tip Style

A	B	D	F	G12	G21	H
Ø .035 (0.89)	Ø .021 (0.53)	Ø .035 (0.89)	Ø .035 (0.89)	Ø .012 (0.31)	Ø .021 (0.53)	Ø .035 (0.89)
J	L	T				
Ø .021 (0.53)	Ø .035 (0.89)	Ø .035 (0.89)				

SPA Tip Style

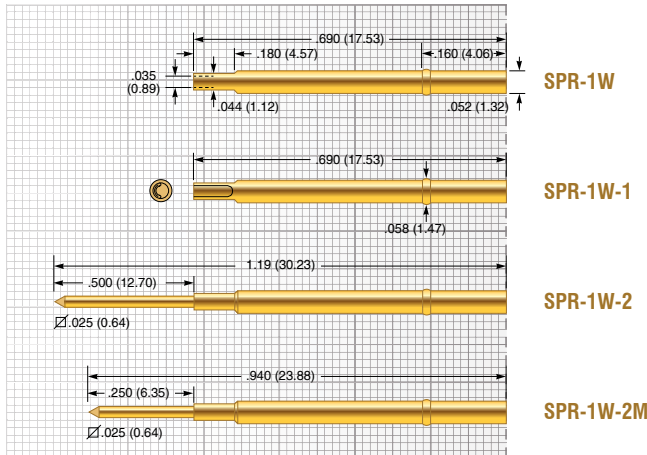
A	B	D	G12	G21	H	J
Ø .035 (0.89)	Ø .021 (0.53)	Ø .035 (0.89)	Ø .012 (0.31)	Ø .021 (0.53)	Ø .035 (0.89)	Ø .021 (0.53)
L	T					
Ø .035 (0.89)	Ø .035 (0.89)					





HPA-1 / SPA-1

75 mil (1.91 mm)



Mechanical

Recommended Travel: .067 (1.70)
 Full Travel: .100 (2.54)
 Operating Temperature: -55°C to +150°C

Spring Force in oz. (grams)

	Order Code	Preload	Rec. Travel
Standard		1.10 (31)	2.5 (71)
Alternate	- 1	1.30 (37)	4.5 (128)

Electrical (Static Conditions)

Current Rating: 3 amps
 Average Probe Resistance HPA: <35 mOhms
 Average Probe Resistance SPA: <50 mOhms

Materials and Finishes

Plunger HPA: Heat-treated BeCu, Gold plated over hard Nickel
 Plunger SPA: Heat-treated BeCu, Rhodium plated over hard Nickel
 Barrel: Work hardened Phosphor Bronze, Gold plated over hard Nickel
 Spring: Stainless Steel, Silver plated

Receptacle

Hole diameter: Ø .053 to .055 (1.35 to 1.40)
 Suggested drill: #54 or 1.40 mm
 Material Housing: Work-hardened Nickel Silver, Gold plated over hard Nickel
 Material Post: Phosphorous Bronze, Gold plated

HPA Tip Style

A	B	C	D	E	F	G
Ø .060 (1.52)	Ø .021 (0.53)	Ø .021 (0.53)	Ø .040 (1.02)	Ø .060 (1.52)	Ø .060 (1.52)	Ø .021 (0.53)
H	J	L	T			
Ø .060 (1.52)	Ø .021 (0.53)	Ø .030 (0.76)	Ø .057 (1.45)			

SPA Tip Style

A	B	C	D	E	F	G
Ø .060 (1.52)	Ø .021 (0.53)	Ø .021 (0.53)	Ø .040 (1.02)	Ø .060 (1.52)	Ø .060 (1.52)	Ø .021 (0.53)
H	J	T				
Ø .060 (1.52)	Ø .021 (0.53)	Ø .057 (1.45)				

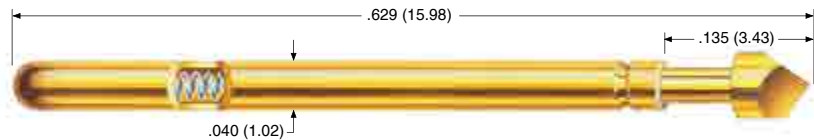


Dimensions in inches (millimeters). Specifications subject to change without notice. Consult factory for other temperature requirements, and applications below -40°C. Stocking Disclaimer: Stocking levels for part numbers listed in this catalog are subject to change. Availability is based on current levels of usage and demand.



HPA-52

75 mil (1.91 mm)



Mechanical

Recommended Travel: .075 (1.91)
 Full Travel: .075 (1.91)
 Operating Temperature: -55°C to +150°C

Spring Force in oz. (grams)

	Order Code	Preload	Rec. Travel
Standard		1.68 (48)	3.22 (91)
Alternate	- 1	2.54 (72)	6.20 (176)

Electrical (Static Conditions)

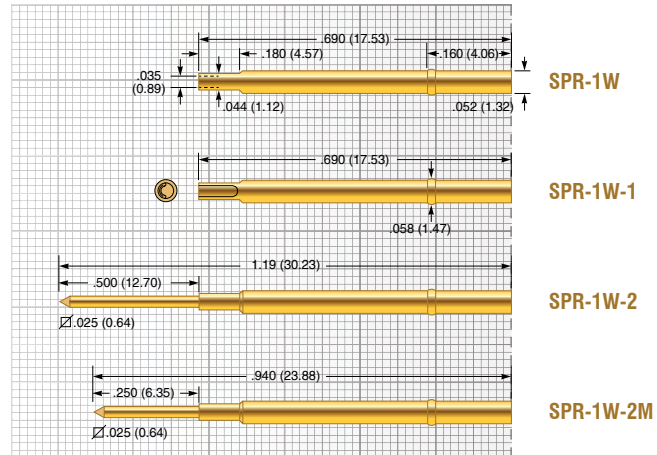
Current Rating: 3 amps
 Average Probe Resistance: < 15 mOhms

Materials and Finishes

Plunger: Heat-treated BeCu, Gold plated over hard Nickel
 Barrel: Work-hardened Phosphor Bronze, Gold plated over hard Nickel
 Spring: Stainless Steel, Silver plated

Receptacle

Hole diameter: Ø .053 to .055 (1.35 to 1.40)
 Suggested drill: #54 or 1.40 mm
 Material Housing: Work-hardened Nickel Silver, Gold plated over hard Nickel
 Material Post: Phosphorous Bronze, Gold plated



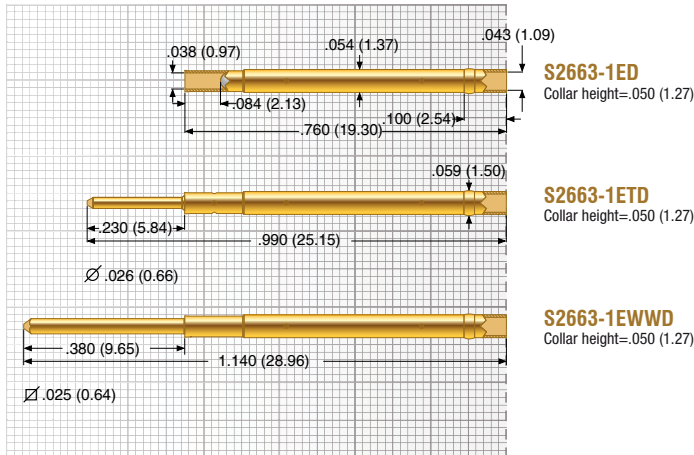
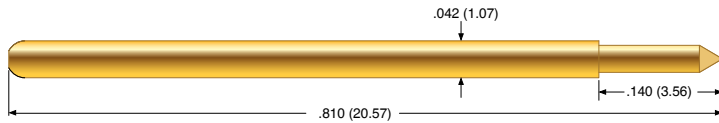
HPA Tip Style

B	D	T				
Ø .021 (0.53)	Ø .040 (1.02)	Ø .057 (1.45)				



P2663

75 mil (1.91 mm)



Mechanical

Recommended Travel: .067 (1.70)
 Full Travel: .090 (2.29)
 Operating Temperature: -55°C to +150°C

Spring Force in oz. (grams)

	Order Code	Preload	Rec. Travel
Standard	- 1	1.50 (42)	3.3 (94)
Alternate	- 2	1.00 (28)	2.0 (57)

Electrical (Static Conditions)

Current Rating: 3 amps
 Average Probe Resistance: <10 mOhms

Materials and Finishes

Plunger: Hardened BeCu, Gold plated
 Barrel: Phosphorous Bronze, Gold plated
 Spring: Stainless Steel
 Ball: Stainless Steel

Receptacle

Hole diameter: Ø .0561 to .0576 (1.43 to 1.46)
 Suggested drill: 1.45 mm
 Material Housing: Brass, Gold plated
 Material Post: Phosphorous Bronze, Gold plated

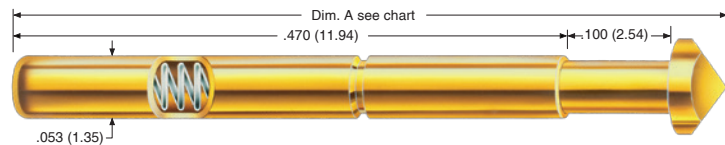
Tip Style					
1C	1P	1R	1V	1W	
Ø .030 (0.76)	Ø .060 (1.52)	Ø .030 (0.76)	Ø .050 (1.27)	Ø .060 (1.52)	
		r = .018 (0.46)			



Dimensions in inches (millimeters). Specifications subject to change without notice. Consult factory for other temperature requirements, and applications below -40°C. Stocking Disclaimer: Stocking levels for part numbers listed in this catalog are subject to change. Availability is based on current levels of usage and demand.

HPA-74

100 mil (2.54 mm)



Mechanical

- Recommended Travel: .075 (1.91)
- Full Travel: .100 (2.54)
- Operating Temperature
 - Standard Spring: -55°C to +150°C
 - Alternate Spring: -55°C to +105°C

Spring Force in oz. (grams)

	Order Code	Preload	Rec. Travel
Standard		1.71 (48)	3.0 (85)
Alternate	- 1	2.82 (80)	5.0 (141)

Electrical (Static Conditions)

- Current Rating: 3 amps
- Average Probe Resistance: < 35 mOhms

Materials and Finishes

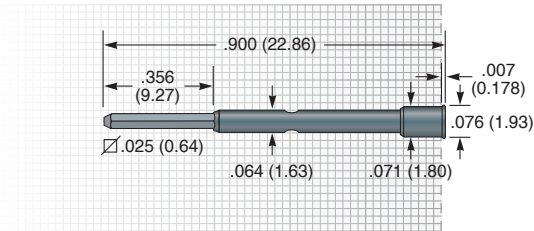
- Plunger: Heat-treated BeCu, Gold plated over hard Nickel
- Barrel: Work hardened Phosphor Bronze, Gold plated over hard Nickel
- Spring
 - Standard: Stainless Steel, Silver plated
 - Alternate: Music Wire, Silver plated

Probe Overall Length

Model No.	Overall Length (Dim. A)
HPA-74A, B	.598 (15.19)
HPA-74C	.586 (14.88)
HPA-74E, T135, T156 HPA-74T65, T80	.610 (15.49)
HPA-74T75	.620 (15.75)

Receptacle

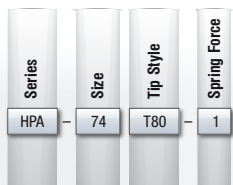
- Hole diameter: \varnothing .067 to .069 (1.70 to 1.75)
- Suggested drill: #51 or 1.70 mm
- Material: Nickel Silver alloy

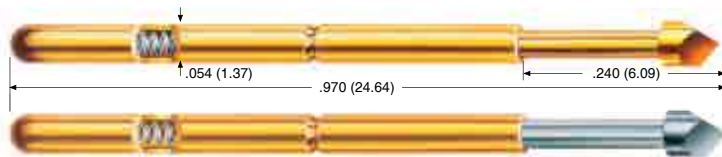


EPR-74W-2

HPA Tip Style

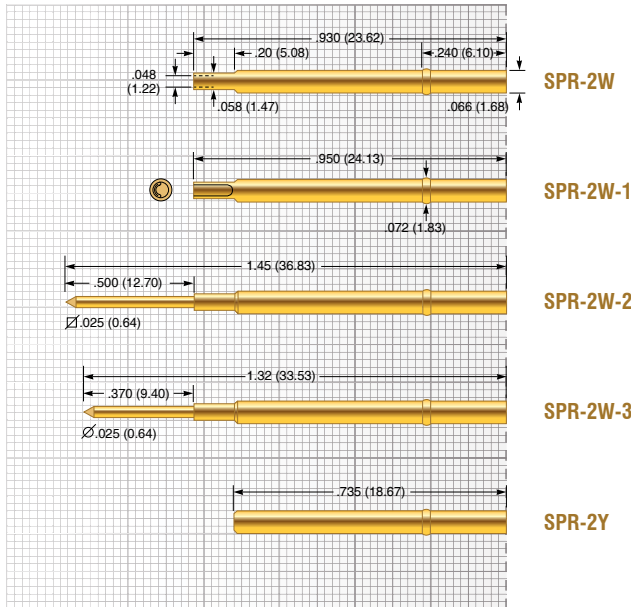
A	B	C	E	T65	T75
\varnothing .080 (2.03)	\varnothing .041 (1.04)	\varnothing .041 (1.04)	\varnothing .080 (2.03)	\varnothing .065 (1.65)	\varnothing .075 (1.91)
T80	T135	T156			
\varnothing .080 (2.03)	\varnothing .135 (3.43)	\varnothing .156 (3.96)			





EPA-2 / SPA-2

100 mil (2.54 mm)



Mechanical

Recommended Travel: .107 (2.72)
 Full Travel: .160 (4.06)
 Operating Temperature: -55°C to +105°C

Spring Force in oz. (grams)

	Order Code	Preload	Rec. Travel
Standard		1.08 (31)	3.5 (99)
Alternate	- 1	2.64 (75)	6.5 (184)
Ultra High	- 2	4.09 (116)	10.0 (283)

Electrical (Static Conditions)

Current Rating: 5 amps
 Average Probe Resistance EPA: < 35 mOhms
 Average Probe Resistance SPA: < 50 mOhms

Materials and Finishes

Plunger EPA: Heat-treated BeCu, Gold plated over hard Nickel
 Plunger SPA: Heat-treated BeCu, Rhodium plated over hard Nickel
 Barrel: Work hardened Nickel Silver, Gold plated over hard Nickel
 Spring: Music Wire, Silver plated
 Ball: Stainless Steel, Gold plated

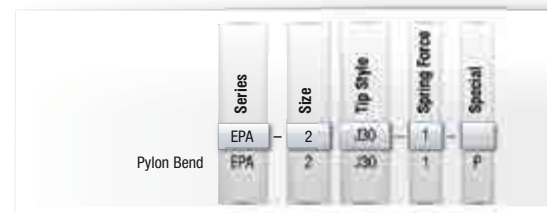
Receptacle

Hole diameter: Ø .067 to .069 (1.70 to 1.75)
 Suggested drill: #51 or 1.70 mm
 Material Housing: Work-hardened Nickel Silver, Gold plated over hard Nickel
 Material Post: Phosphorous Bronze, Gold plated

EPA / SPA Tip Style

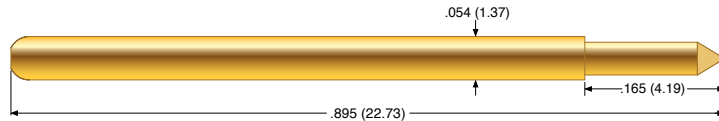
A	B30	B40	C30	C40	D	E
Ø .075 (1.91)	Ø .030 (0.76)	Ø .040 (1.02)	Ø .030 (0.76)	Ø .040 (1.02)	Ø .050 (1.27)	Ø .075 (1.91)
F	G30	G40	H	J30	J40	L
Ø .075 (1.91)	Ø .030 (0.76)	Ø .040 (1.02)	Ø .075 (1.91)	Ø .030 (0.76)	Ø .040 (1.02)	Ø .050 (1.27)
P	T	X				
Ø .075 (1.91)	Ø .075 (1.91)	Ø .050 (1.27)				

Dimensions in inches (millimeters). Specifications subject to change without notice. Consult factory for other temperature requirements, and applications below -40°C. Stocking Disclaimer: Stocking levels for part numbers listed in this catalog are subject to change. Availability is based on current levels of usage and demand.



P2664

100 mil (2.54 mm)



Mechanical

Recommended Travel: .084 (2.13)
 Full Travel: .114 (2.90)
 Operating Temperature: -55°C to +150°C

Spring Force in oz. (grams)

	Order Code	Preload	Rec. Travel
Standard	1	2.00 (57)	3.6 (102)
Alternate	2	3.00 (85)	5.7 (162)

Electrical (Static Conditions)

Current Rating: 5 amps
 Average Probe Resistance: < 10 mOhms

Materials and Finishes

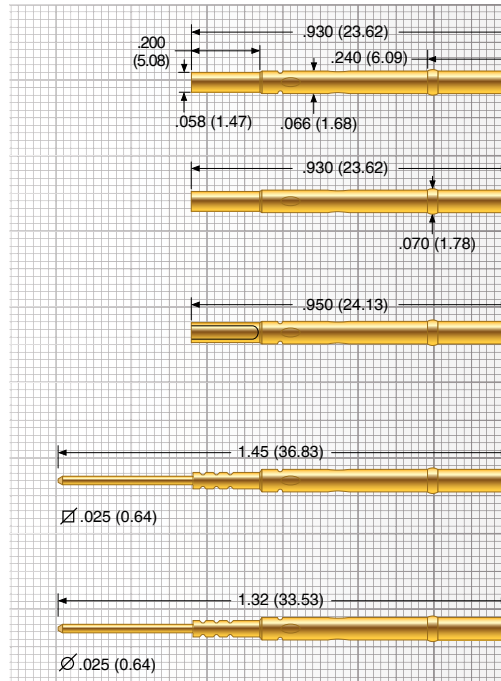
Plunger: Heat-treated BeCu, Gold plated over hard Nickel
 Barrel: Phosphorous Bronze, Gold plated
 Spring: Stainless Steel
 Ball: Stainless Steel

Probe Overall Length

Model No.	Overall Length (Dim. A)	Plunger Extension (Dim. B)
P2664G-...	.895 (22.73)	0.165 (4.19)
P2664G-1C...	.845 (21.46)	0.115 (2.92)
P2664G-2R...	.935 (23.75)	0.205 (5.21)

Receptacle

Hole diameter: Ø .069 (1.75)
 Suggested drill: 1.75 mm
 Material Housing: Nickel Silver, Gold plated
 Material Post: Phosphorous Bronze, Gold plated



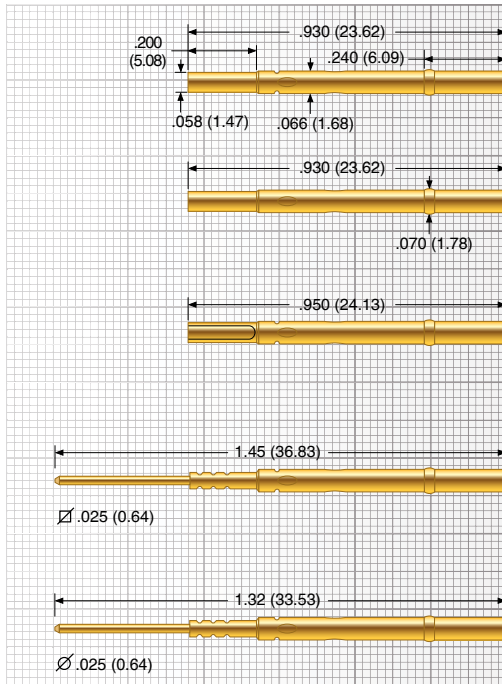
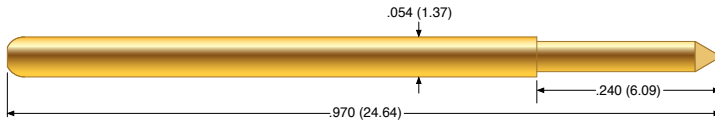
Tip Style

1C	1R	2R	4V	1W		
Ø .040 (1.02)	Ø .040 (1.02)	Ø .050 (1.27)	Ø .070 (1.78)	Ø .070 (1.78)		
	r = .023 (0.58)	r = .029 (0.74)				



P3158

100 mil (2.54 mm)



PR541-0
Collar height=.060 (1.52)

PR541-0F
Flush Mount

PR541-1
Collar height=.060 (1.52)

PR541-1F
Flush Mount

PR541-2
Collar height=.060 (1.52)

PR541-2F
Flush Mount

PR541-3
Collar height=.060 (1.52)

PR541-3F
Flush Mount

Mechanical

Recommended Travel: .114 (2.90)
Full Travel: .170 (4.32)
Operating Temperature: -55°C to +105°C

Spring Force in oz. (grams)

	Order Code	Preload	Rec. Travel
Standard	1	2.70 (77)	6.9 (196)
Alternate	2	1.30 (37)	2.8 (79)

Electrical (Static Conditions)

Current Rating: 8 amps
Average Probe Resistance: <10 mOhms

Materials and Finishes

Plunger: Heat-treated Steel or BeCu, Gold plated over hard Nickel
Barrel: Phosphorous Bronze, Gold plated
Spring: Music Wire
Ball: Stainless Steel

Receptacle

Hole diameter: Ø .069 (1.75)
Suggested drill: 1.75 mm
Material Housing: Nickel Silver, Gold plated
Material Post: Phosphorous Bronze, Gold plated

Tip Style

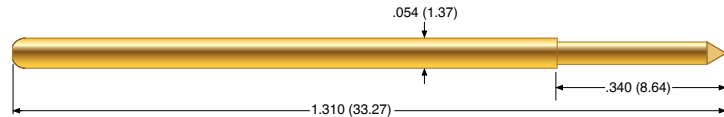
3C	1R	1Q	2Q	1V	1W
Ø .040 (1.02)	Ø .040 (1.02)	Ø .060 (1.52)	Ø .025 (0.64)	Ø .070 (1.78)	Ø .070 (1.78)
Steel	r = .023 (0.58)				



Dimensions in inches (millimeters). Specifications subject to change without notice. Consult factory for other temperature requirements, and applications below -40°C. Stocking Disclaimer: Stocking levels for part numbers listed in this catalog are subject to change. Availability is based on current levels of usage and demand.

P5160

100 mil (2.54 mm)



Mechanical

Recommended Travel: .167 (4.24)
 Full Travel: .230 (5.84)
 Operating Temperature: -55°C to +105°C

Spring Force in oz. (grams)

	Order Code	Preload	Rec. Travel
Standard	1	2.50 (71)	6.5 (184)
Alternate	2	1.70 (48)	3.5 (99)
Elevated	3	2.50 (71)	8.2 (232)

Electrical (Static Conditions)

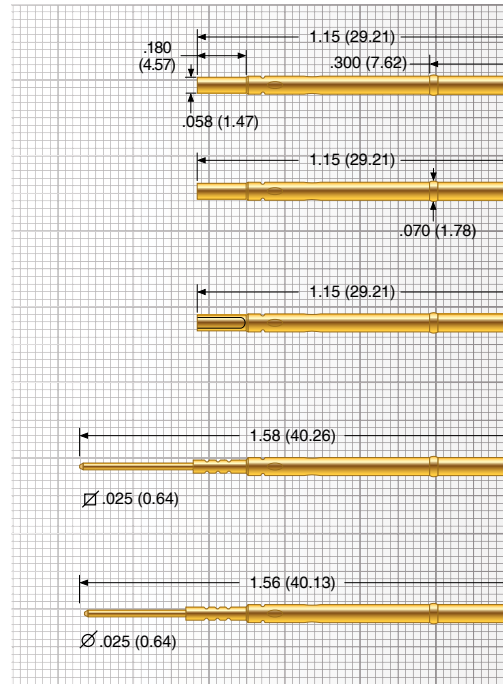
Current Rating: 8 amps
 Average Probe Resistance: < 10 mOhms

Materials and Finishes

Plunger: Hardened Steel or BeCu, Gold plated over hard Nickel
 Barrel: Phosphorous Bronze, Gold plated
 Spring: Music Wire
 Ball: Stainless Steel

Receptacle

Hole diameter: Ø .069 (1.75)
 Suggested drill: 1.75 mm
 Material Housing: Nickel Silver, Gold plated
 Material Post: Phosphorous Bronze, Gold plated



PR54-0
Collar height=.030 (.762)

PR54-0F
Flush Mount

PR54-1
Collar height=.030 (.762)

PR54-1F
Flush Mount

PR54-2
Collar height=.030 (.762)

PR54-2F
Flush Mount

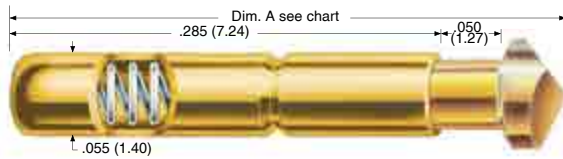
PR54-3
Collar height=.030 (.762)

PR54-3F
Flush Mount

Tip Style

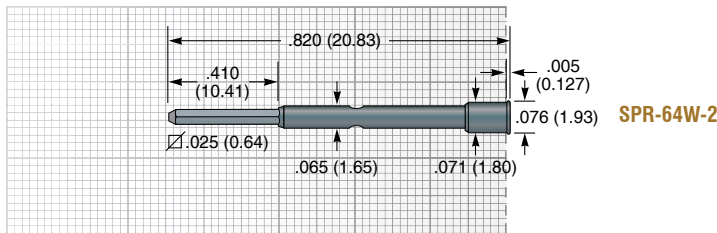
2C	3C	1R	3P	1Q	1V	2W
Ø .040 (1.02)	Ø .040 (1.02)	Ø .030 (0.76)	Ø .060 (1.52)	Ø .060 (1.52)	Ø .060 (1.52)	Ø .060 (1.52)





HPA-64 / SPA-64

100 mil (2.54 mm)



Mechanical

Recommended Travel: .050 (1.27)
 Full Travel: .050 (1.27)
 Operating Temperature: -55°C to +150°C

Spring Force in oz. (grams)

	Preload	Rec. Travel
Standard	1.10 (31)	3.85 (109)

Electrical (Static Conditions)

Current Rating: 3 amps
 Average Probe Resistance HPA / SPA: < 50 mOhms

Materials and Finishes

Plunger: Heat-treated BeCu, Gold plated over hard Nickel
 Barrel HPA: Work hardened Nickel Silver, Gold plated over hard Nickel
 Barrel SPA: Work hardened Nickel Silver
 Spring: Stainless Steel, Silver plated

Probe Overall Length

Model No.	Overall Length (Dim. A)
HPA/SPA-64-1, -4, -7	.375 (9.53)
HPA/SPA-64-2, -3	.365 (9.27)
HPA/SPA-64-8	.385 (9.78)
SPA-64-9, -10	.363 (9.22)
HPA-64-9, -10	.365 (9.27)

Receptacle

Hole diameter: Ø .067 to .069 (1.70 to 1.75)
 Suggested drill: #51 or 1.70 mm
 Material: Nickel Silver alloy

HPA / SPA Tip Style					
-1 Ø .077 (1.96)	-2 Ø .077 (1.96)	-3 Ø .077 (1.96)	-4 Ø .065 (1.65)	-7 Ø .156 (3.96)	-8 Ø .075 (1.99)
-9 Ø .047 (1.19)	-10 Ø .047 (1.19)				

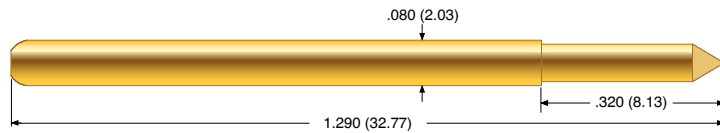


Dimensions in inches (millimeters). Specifications subject to change without notice. Consult factory for other temperature requirements, and applications below -40°C. Stocking Disclaimer: Stocking levels for part numbers listed in this catalog are subject to change. Availability is based on current levels of usage and demand.



P2665

125 mil (3.18 mm)



Mechanical

Recommended Travel: .167 (4.24)
 Full Travel: .230 (5.84)
 Operating Temperature: -55°C to +150°C

Spring Force in oz. (grams)

	Order Code	Preload	Rec. Travel
Standard	1	1.50 (43)	3.0 (85)
Alternate	2	2.50 (71)	5.8 (164)

Electrical (Static Conditions)

Current Rating: 15 amps
 Average Probe Resistance: < 10 mOhms

Materials and Finishes

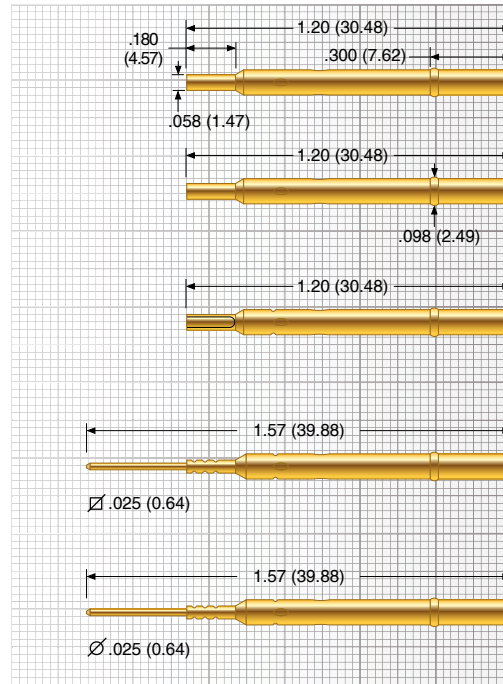
Plunger: Heat-treated BeCu, Gold plated over hard Nickel
 Barrel: Phosphorous Bronze, Gold plated
 Spring: Stainless Steel
 Ball: Stainless Steel

Probe Overall Length

Model No.	Overall Length (Dim. A)	Plunger Extension (Dim. B)
P2665G-...	1.29 (32.77)	0.320 (8.13)
P2665G-2W	1.27 (32.26)	0.300 (7.62)

Receptacle

Hole diameter: Ø .094 to .096 (2.39 to 2.44)
 Suggested drill: #41 or 2.40 mm
 Material Housing: Nickel Silver, Gold plated
 Material Post: Phosphorous Bronze, Gold plated

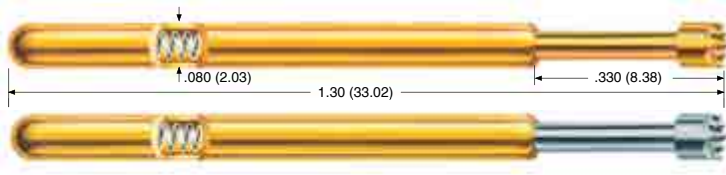


- PR80-0**
Collar height = .090 (2.29)
- PR80-0F**
Flush Mount
- PR80-1F**
Flush Mount
- PR80-1**
Collar height = .090 (2.29)
- PR80-2F**
Flush Mount
- PR80-2**
Collar height = .090 (2.29)
- PR80-3F**
Flush Mount
- PR80-3**
Collar height = .090 (2.29)

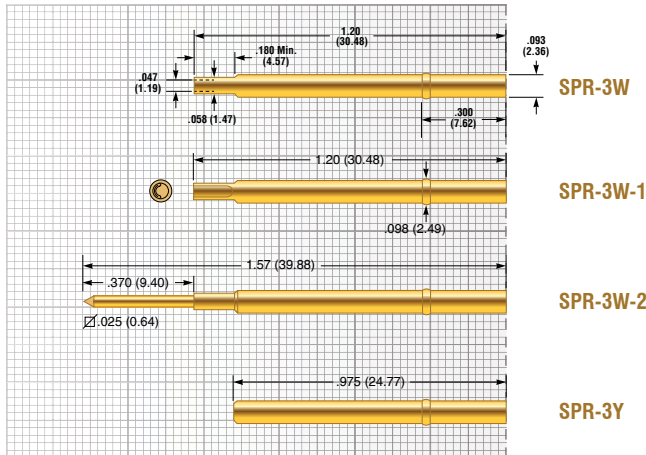
Tip Style

1C	1R	1V	1W	2W		
Ø .066 (1.68)	Ø .066 (1.68)	Ø .090 (2.29)	Ø .090 (2.29)	Ø .153 (3.89)		
	r = .036 (0.91)					





EPA-3 / SPA-3
125 mil (3.18 mm)



Mechanical

Recommended Travel:	.167 (4.24)
Full Travel:	.250 (6.35)
Operating Temperature	
• Standard Spring:	-55°C to +85°C
• Alternate Spring:	-55°C to +150°C
• Ultra High Spring:	-55°C to +150°C

Spring Force in oz. (grams)

	Order Code	Preload	Rec. Travel
Standard		1.60 (45)	4.5 (128)
Alternate	- 1	2.52 (71)	6.5 (184)
Ultra High	- 2	4.18 (119)	11.7 (332)

Electrical (Static Conditions)

Current Rating:	6 amps
Average Probe Resistance EPA:	< 35 mOhms
Average Probe Resistance SPA:	< 50 mOhms

Materials and Finishes

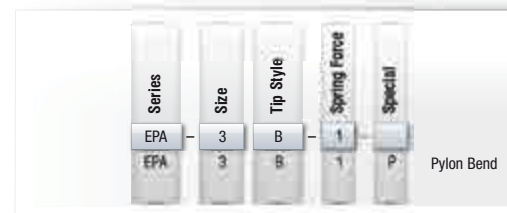
Plunger EPA:	Heat-treated BeCu, Gold plated over hard Nickel
Plunger SPA:	Heat-treated BeCu, Rhodium plated over hard Nickel
Barrel:	Work hardened Nickel Silver, Gold plated over hard Nickel
Spring	
Standard:	BeCu, Silver plated
Alternate:	Stainless Steel, Silver plated
Ultra High:	Stainless Steel
Ball:	Brass, Gold plated

Receptacle

Hole diameter:	Ø .094 to .096 (2.39 to 2.44)
Suggested drill:	#41 or 2.40 mm
Material Housing:	Work-hardened Nickel Silver, Gold plated over hard Nickel
Material Post:	Phosphorous Bronze, Gold plated

Special

A "P" at the end of the part number in the "Special" field indicates the end of the barrel will have a slight bulge and is used with receptacles lacking detents.



EPA Tip Style

A	B	C	D	E	F	G
Ø .100 (2.54)	Ø .050 (1.27)	Ø .050 (1.27)	Ø .062 (1.58)	Ø .100 (2.54)	Ø .100 (2.54)	Ø .050 (1.27)
H	J	T				
Ø .100 (2.54)	Ø .050 (1.27)	Ø .100 (2.54)				

SPA Tip Style

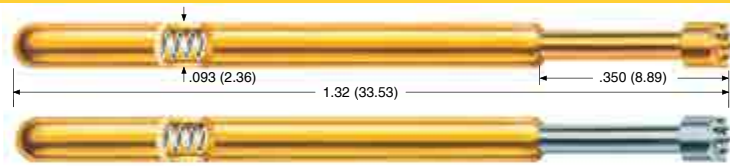
A	B	C	D	E	F	G
Ø .100 (2.54)	Ø .050 (1.27)	Ø .050 (1.27)	Ø .062 (1.58)	Ø .100 (2.54)	Ø .100 (2.54)	Ø .050 (1.27)
H	J	T				
Ø .100 (2.54)	Ø .050 (1.27)	Ø .100 (2.54)				

Dimensions in inches (millimeters). Specifications subject to change without notice. Consult factory for other temperature requirements, and applications below -40°C. Stocking Disclaimer: Stocking levels for part numbers listed in this catalog are subject to change. Availability is based on current levels of usage and demand.



EPA-4 / SPA-4

187 mil (4.75 mm)



Mechanical

Recommended Travel:	.167 (4.24)
Full Travel:	.250 (6.35)
Operating Temperature	
• Standard Spring:	-55°C to +85°C
• Alternate Spring:	-55°C to +150°C
• Ultra High Spring:	-55°C to +150°C

Spring Force in oz. (grams)

	Order Code	Preload	Rec. Travel
Standard		2.20 (62)	4.8 (136)
Alternate	- 1	3.20 (90)	6.9 (196)
Ultra High	- 2	6.70 (190)	11.8 (335)

Electrical (Static Conditions)

Current Rating:	7 amps
Average Probe Resistance EPA:	< 35 mOhms
Average Probe Resistance SPA:	< 50 mOhms

Materials and Finishes

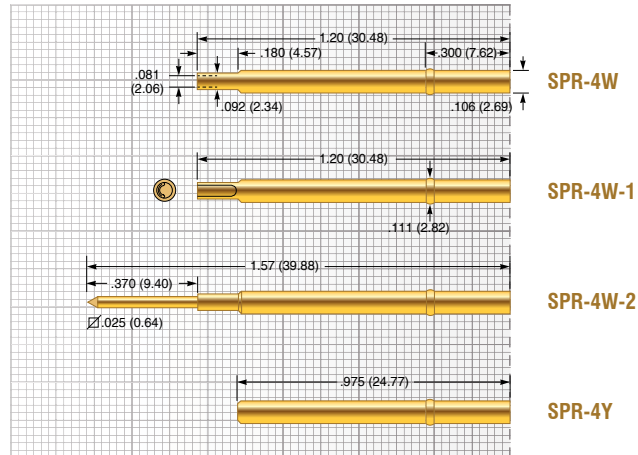
Plunger EPA:	Heat-treated BeCu, Gold plated over hard Nickel
Plunger SPA:	Heat-treated BeCu, Rhodium plated over hard Nickel
Barrel:	Work hardened Nickel Silver, Gold plated over hard Nickel
Spring	
• Standard:	BeCu, Silver plated
• Alternate:	Stainless Steel, Silver plated
• Ultra High:	Stainless Steel
Ball:	Brass, Gold plated

Receptacle

Hole diameter:	Ø .107 to .109 (2.72 to 2.77)
Suggested drill:	2.75 mm
Material Housing:	Work-hardened Nickel Silver, Gold plated over hard Nickel
Material Post:	Phosphorous Bronze, Gold plated

Special

A "P" at the end of the part number in the "Special" field indicates the end of the barrel will have a slight bulge and is used with receptacles lacking detents.



EPA Tip Style

A	B	C	D	E	F	G
Ø .156 (3.96)	Ø .060 (1.53)	Ø .060 (1.53)	Ø .093 (2.36)	Ø .156 (3.96)	Ø .156 (3.96)	Ø .060 (1.53)
H	J					
Ø .156 (3.96)	Ø .060 (1.53)					

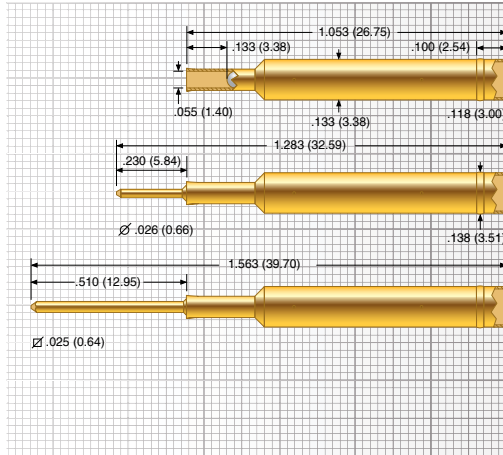
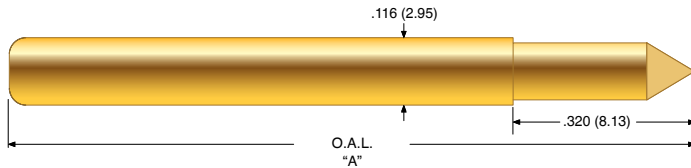
SPA Tip Style

A	B	C	D	E	F	G
Ø .156 (3.96)	Ø .060 (1.53)	Ø .060 (1.53)	Ø .093 (2.36)	Ø .156 (3.96)	Ø .156 (3.96)	Ø .060 (1.53)
H	J					
Ø .156 (3.96)	Ø .060 (1.53)					



P2757

187 mil (4.75 mm)



S2757-2ED
Collar height = .090 (2.29)

S2757-2ETD
Collar height = .090 (2.29)

S2757-2EWWD
Collar height = .090 (2.29)

Mechanical

Recommended Travel: .167 (4.24)
Full Travel: .230 (5.84)
Operating Temperature: -55°C to +150°C

Spring Force in oz. (grams)

	Order Code	Preload	Rec. Travel
Standard	1	2.00 (57)	4.0 (113)
Alternate	2	3.50 (99)	6.9 (194)

Electrical (Static Conditions)

Current Rating: 20 amps
Average Probe Resistance: <10 mOhms

Materials and Finishes

Plunger: Heat-treated BeCu, Gold or Silver plated over hard Nickel
Barrel: Phosphorous Bronze, Gold plated
Spring: Stainless Steel
Ball: Stainless Steel

Probe Overall Length

Model No.	Overall Length (Dim. A)
P2757G-...	1.210 (30.73)
P2757G-1W...	1.205 (30.61)
P2757G-2W...	1.205 (30.61)

Receptacle

Hole diameter: Ø .1350 to .1365 (3.43 to 3.47)
Suggested drill: #29 or 3.45 mm
Material Housing: Brass, Gold plated
Material Post: Phosphorous Bronze, Gold plated

Tip Style						
1C	1R	1V	1W	2W	3W	
Ø .098 (2.49)	Ø .120 (3.05)	Ø .152 (3.86)	Ø .154 (3.91)	Ø .250 (6.35)	Ø .122 (3.10)	

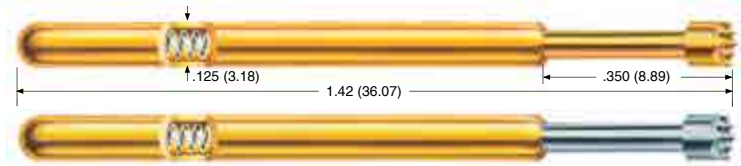


Dimensions in inches (millimeters). Specifications subject to change without notice. Consult factory for other temperature requirements, and applications below -40°C. Stocking Disclaimer: Stocking levels for part numbers listed in this catalog are subject to change. Availability is based on current levels of usage and demand.



EPA-5 / SPA-5

187 mil (4.75 mm)



Mechanical

Recommended Travel:	.167 (4.24)
Full Travel:	.250 (6.35)
Operating Temperature	
• Light Spring:	-55°C to +85°C
• Standard Spring:	-55°C to +150°C
• Ultra High Spring:	-55°C to +105°C

Spring Force in oz. (grams)

	Order Code	Preload	Rec. Travel
Light	- 1*	1.96 (56)	3.5 (99)
Standard		6.13 (174)	16.0 (454)
Ultra High	- 2	12.90 (366)	48.0 (1361)

* Available ONLY in SPA-5

Electrical (Static Conditions)

Current Rating:	8 amps
Average Probe Resistance EPA:	< 35 mOhms
Average Probe Resistance SPA:	< 50 mOhms

Materials and Finishes

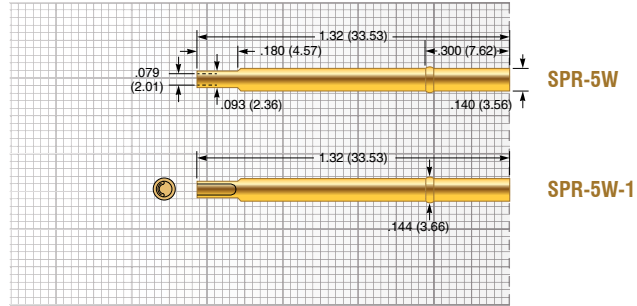
Plunger EPA:	Heat-treated BeCu, Gold plated over hard Nickel
Plunger SPA:	Heat-treated BeCu, Rhodium plated over hard Nickel
Barrel:	Work hardened Nickel Silver, Gold plated over hard Nickel
Spring	
• Light:	BeCu, Silver plated
• Standard:	Stainless Steel, Silver plated
• Ultra High:	Music Wire, Silver plated
Ball:	Brass, Gold plated

Receptacle

Hole diameter:	Ø .141 to .143 (3.58 to 3.63)
Suggested drill:	3.60 mm
Material Housing:	Work-hardened Nickel Silver, Gold plated over hard Nickel

Special

A "P" at the end of the part number in the "Special" field indicates the end of the barrel will have a slight bulge and is used with receptacles lacking detents.

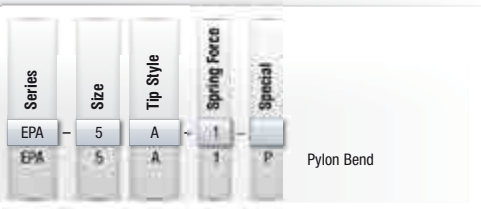


EPA Tip Style

A	B	E	H			
Ø .156 (3.96)	Ø .080 (2.03)	Ø .156 (3.96)	Ø .156 (3.96)			

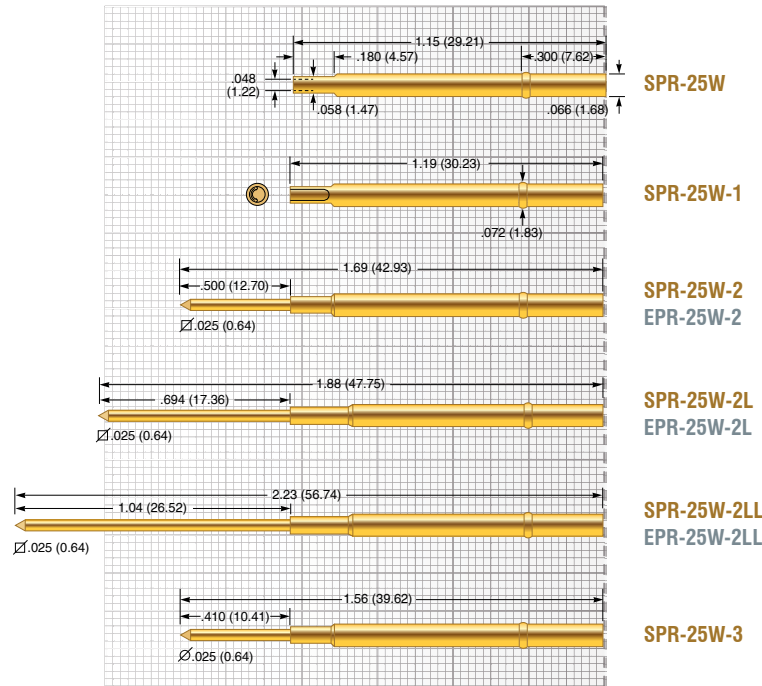
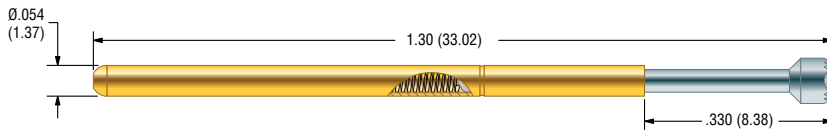
SPA Tip Style

A	B	H				
Ø .156 (3.96)	Ø .080 (2.03)	Ø .156 (3.96)				



SPP-25

100 mil (2.54 mm)



Mechanical

Recommended Travel: .167 (4.24)
 Full Travel: .250 (6.35)
 Operating Temperature: -55°C to +105°C

Spring Force in oz. (grams)

	Order Code	Preload	Rec. Travel
Standard	-4	0.84 (23.8)	4.0 (113)
Alternate	-6	3.08 (87.3)	6.0 (170)

Electrical (Static Conditions)

Current Rating: 8 amps
 Average Probe Resistance: 8 mOhms

Materials and Finishes

Plunger: BeCu, LFRE proprietary plating
 Barrel: Nickel Silver, Gold plated
 Spring
 • Standard: Stainless Steel
 • Alternate: Music Wire

Receptacle

Hole diameter: Ø .067 to .069 (1.70 to 1.75)
 Suggested drill: #51 or 1.75 mm
 Material
 • SPR Housing: Work-hardened Nickel Silver, Gold plated over hard Nickel
 • EPR Housing: Nickel Silver, unplated
 Post: Phosphorous Bronze, Gold plated

Tip Style

H	HF				
Ø .060 (1.52)	Ø .080 (2.03)				

Solar Panel Test Probe SPP-25 Benefit Summary

Spring probe technology is an ideal solution to provide electrical connection to obtain I-V curve measurements, or providing reliable contact for your challenging high current or low voltage connections. SPP-25 probes feature low, stable resistance, a center close for enhanced pointing accuracy, tip styles designed to distribute spring force across a large area, and two force options; 4oz and 6oz. The probes are specifically designed to yield a linear force-compression relationship as the probe is actuated. This minimizes potentially harmful jumps or steps in force.

Dimensions in inches (millimeters). Specifications subject to change without notice. Consult factory for other temperature requirements, and applications below -40°C. Stocking Disclaimer: Stocking levels for part numbers listed in this catalog are subject to change. Availability is based on current levels of usage and demand.



ECT CONTACT PRODUCTS
 ECT-CPG.com
 shop.ECT-CPG.com

GENERAL PURPOSE – EPOXY OR SOLDER MOUNT

The ECT / Pylon line of standard products includes non-replaceable Pogo contacts. They differ from replaceable contacts in that they do not require a socket or receptacle and are designed to be permanently mounted. Non-replaceable probes are designed for industrial applications where typical probe life meets or exceeds those of the end-use product. They are often located inside the end product where probe replacement is either impossible or end-product damage would occur.

Electrical connections are usually made with a soldered connection for electrical and mechanical stability.

The probe is retained in the retention plate with either epoxy or solder on the outside of the probe body.

Non-replaceable Pogo contacts are another example of ECT and Pylon's quality and innovation and how it can work for you.

Epoxy Mount

EPOXY MOUNT INSTRUCTIONS

ECT non-replaceable products may be retained in mounting holes using solder or adhesives.

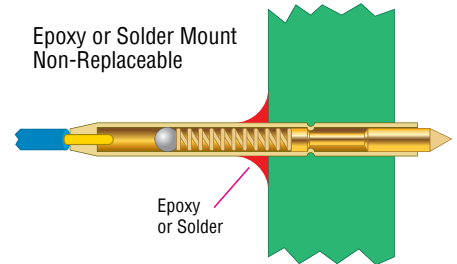
- Solder mount If conductivity is required, we recommend utilizing solder mounting for retention.
- Epoxy mount If conductivity is not required, utilizing epoxy adhesives for mounting is acceptable.

Adhesives used are typically two-part epoxies, and can be either conductive or non-conductive dependent upon the application. ECT does not recommend the use of fast setting Superglue style adhesives as they can outgas and may put a nearly invisible barrier on contact surfaces. Epoxy mounting, when properly utilized, provides excellent holding or retention ability compared to traditional mounting techniques such as solder mounting.

Several types of epoxies are available for use, depending on whether conductivity is required, the desired set time, the temperature of application and the requirements and temperature in the end use.

The following epoxy adhesives are known to work well in typical customer applications:

- DEVCON #14277 Two-part epoxy
- Loctite 3140 Hysol Epoxy Resin
- Loctite 3164 Hysol Epoxy Hardener
- DURALCO #4525 Room temperature curing epoxy



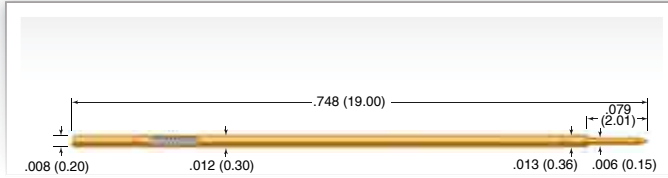
EPOXY MOUNTING PROCEDURE

1. The probe barrel must be clean and free of any coatings, paint, or other materials.
2. Additionally, the plated through hole, or mounting hole must be clean and free of any coatings, paint, or other materials.
3. To install the probe, apply a thin layer of conductive epoxy to the clean inside area of the mounting hole or to the clean outside of the probe barrel, according to manufacturer's directions.
4. If desired, apply a release agent, on all other surfaces to keep the epoxy from adhering to undesirable locations. Utilize a release agent which is compatible with your process.
5. If the depth of the mounting hole is shallow, ensure that a fixture is used to ensure perpendicularity of the probe to the mounting plane.
6. Once the epoxy hardens, or sets up to an acceptable stiff plastic consistency, remove any fixturing or release agents.



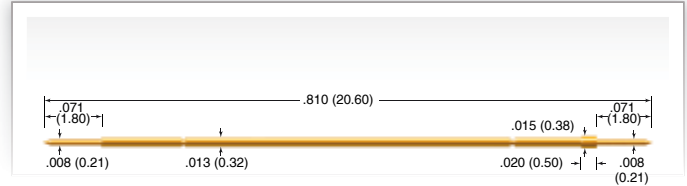
MEP-22B

20 mil (0.51 mm)



MEPJ-22BD

20 mil (0.51 mm)



Mechanical

Recommended Travel: .050 (1.27)
 Full Travel: .079 (2.01)
 Operating Temperature: -55°C to +105°C

Spring Force in oz. (grams)

	Preload	Rec. Travel
Standard	0.51 (14)	1.69 (48)

Electrical (Static Conditions)

Current Rating: 2 amps
 Average Probe Resistance: <125 mOhms


Materials and Finishes

Plunger: Heat-treated Steel, Nickel Boron plated
 Barrel: BeCu alloy, Gold plated
 Spring: Music Wire, Gold plated

Mounting

Hole diameter: Ø .0135 to .0140 (0.34 to 0.36)
 Suggested drill: #80 or 0.35 mm

Tip Style

B				
Ø .006 (0.15)				
				

Mechanical

Recommended Travel: .052 (1.33)
 Full Travel: .079 (2.01)
 Operating Temperature: -55°C to +105°C

Spring Force in oz. (grams)

	Preload	Rec. Travel
Standard	0.38 (11)	1.69 (48)

Electrical (Static Conditions)

Current Rating: 2 amps
 Average Probe Resistance: <125 mOhms


Materials and Finishes

Plunger: Heat-treated Steel, Nickel Boron plated
 Barrel: Phosphor Bronze, Gold plated
 Spring: Music Wire, Gold plated

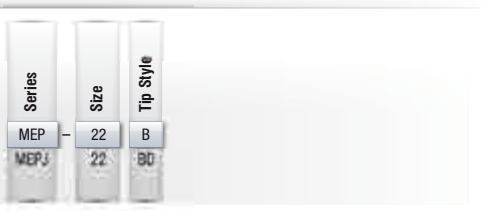
Mounting

Hole diameter: Ø .0135 to .0140 (0.34 to 0.36)
 Suggested drill: #80 or 0.35 mm

Tip Style

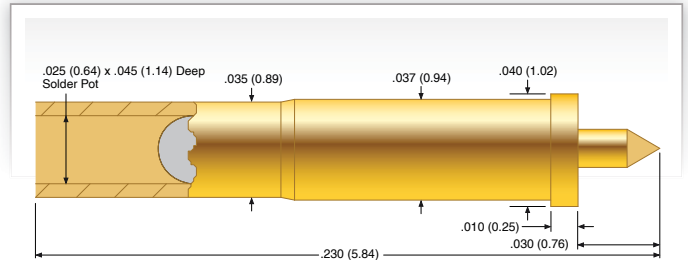
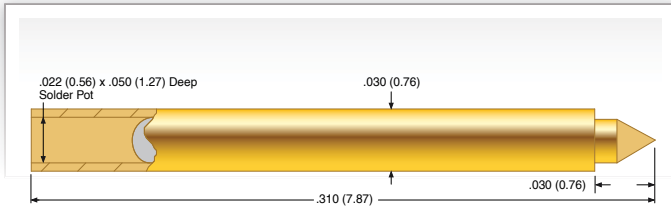
B				
Ø .008 (0.20)				
				

HIB & DUT



A-A-S
39 mil (1.00 mm)

A-S
50 mil (1.27 mm)



Mechanical

Recommended Travel: .020 (0.51)
 Full Travel: .030 (0.76)
 Operating Temperature: -55°C to +150°C

Spring Force in oz. (grams)

	Preload	Rec. Travel
Standard	0.5 (14)	2.0 (57)

Electrical (Static Conditions)

Current Rating: 2 amps
 Average Probe Resistance: <30 mOhms

Materials and Finishes

Plunger: Heat treated BeCu, Gold plated
 Barrel: Phosphor Bronze, Gold plated
 Spring: Stainless Steel, Gold plated
 Ball: Stainless Steel, Gold plated

Epoxy Mounting

Hole diameter: Ø .0315 (0.80)
 Suggested drill: #68 or 0.79 mm

Tip Style

C	R			
Ø .021 (0.53)	Ø .021 (0.53)			

Mechanical

Recommended Travel: .020 (0.51)
 Full Travel: .030 (0.76)
 Operating Temperature: -55°C to +150°C

Spring Force in oz. (grams)

	Preload	Rec. Travel
Standard	0.7 (20)	1.3 (37)

Electrical (Static Conditions)

Current Rating: 2 amps
 Average Probe Resistance: <30 mOhms

Materials and Finishes

Plunger: Heat treated BeCu or Brass, Gold plated
 Barrel: Brass, Gold plated
 Spring: Stainless Steel, Gold plated
 Ball: Stainless Steel, Gold plated

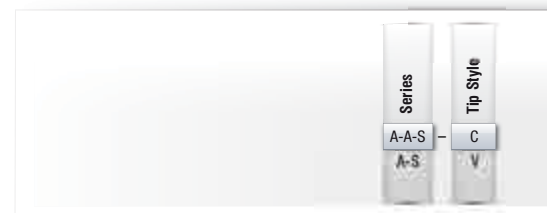
Mounting

Hole diameter: Ø .0380 (0.97)
 Suggested drill: #62 or 0.97 mm

Tip Style

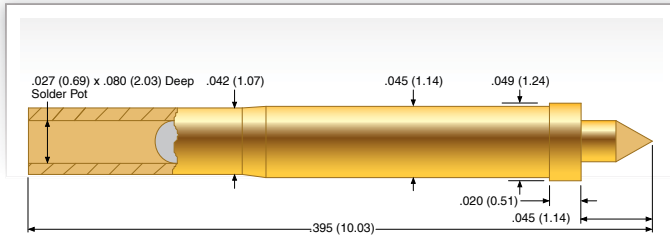
C	R	V		
Ø .014 (0.36)	Ø .014 (0.36)	Ø .014 (0.36)		
	Brass			

Dimensions in inches (millimeters). Specifications subject to change without notice. Consult factory for other temperature requirements, and applications below -40°C. Stocking Disclaimer: Stocking levels for part numbers listed in this catalog are subject to change. Availability is based on current levels of usage and demand.



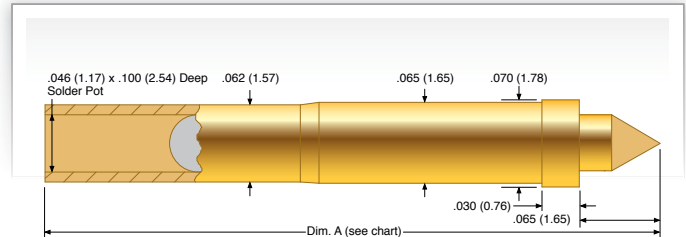
C-S

75 mil (1.91 mm)



E-S

100 mil (2.54 mm)



Mechanical

Recommended Travel: .030 (0.76)
 Full Travel: .045 (1.14)
 Operating Temperature: -55°C to +150°C

Spring Force in oz. (grams)

	Preload	Rec. Travel
Standard	0.5 (14)	3.4 (96)

Electrical (Static Conditions)

Current Rating: 5 amps
 Average Probe Resistance: <30 mOhms

Materials and Finishes

Plunger: Heat treated BeCu, Gold plated
 Barrel: Brass, Gold plated
 Spring: Stainless Steel, Gold plated
 Ball: Stainless Steel, Gold plated

Epoxy Mounting

Hole diameter: Ø .0465 (1.18)
 Suggested drill: #56

Tip Style

C	R			
Ø .026 (0.66)	Ø .026 (0.66)			

Mechanical

Recommended Travel: .043 (1.09)
 Full Travel: .065 (1.65)
 Operating Temperature: -55°C to +150°C

Spring Force in oz. (grams)

	Preload	Rec. Travel
Standard	1.0 (29)	2.75 (78)

Electrical (Static Conditions)

Current Rating: 5 amps
 Average Probe Resistance: <30 mOhms

Materials and Finishes

Plunger: Heat treated BeCu, Gold plated
 Barrel: Brass, Gold plated
 Spring: Stainless Steel, Gold plated
 Ball: Stainless Steel, Gold plated

Epoxy Mounting

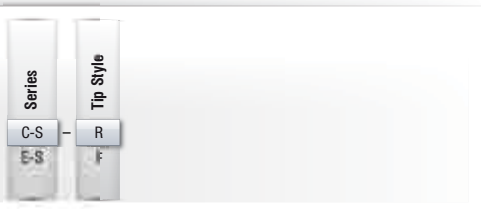
Hole diameter: Ø .0670 (1.70)
 Suggested drill: #51

Probe Overall Length

Model No.	Overall Length (Dim A)
E-S-C, F,R	.495 (12.57)
E-S-V, W	.540 (13.72)

Tip Style

C	F	R	V	W
Ø .045 (1.14)	Ø .045 (1.14)	Ø .045 (1.14)	Ø .090 (2.29)	Ø .070 (1.78)

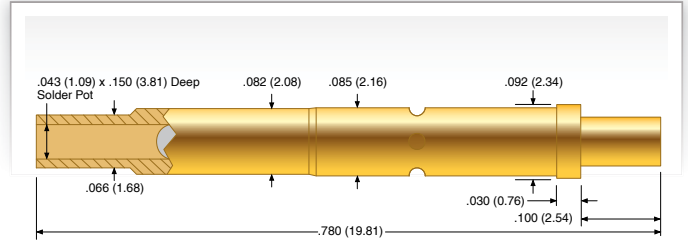
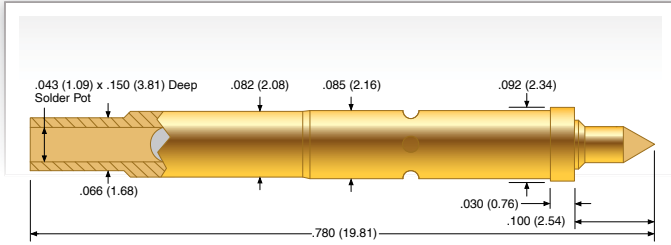


F-S

125 mil (3.18 mm)

G-S

125 mil (3.18 mm)



Mechanical

Recommended Travel: .066 (1.68)
 Full Travel: .100 (2.54)
 Operating Temperature: -55°C to +150°C

Spring Force in oz. (grams)

	Preload	Rec. Travel
Standard	2.0 (57)	6.0 (170)

Electrical (Static Conditions)

Current Rating: 5 amps
 Average Probe Resistance: <30 mOhms

Materials and Finishes

Plunger: Heat treated BeCu, Gold plated or Heat treated Brass, Gold plated
 Barrel: Brass, Gold plated
 Spring: Stainless Steel, Gold plated
 Ball: Stainless Steel, Gold plated

Epoxy Mounting

Hole diameter: Ø .0860 (2.18)
 Suggested drill: #44

Tip Style

C	R	W		
Ø .045 (1.14)	Ø .045 (1.14)	Ø .090 (2.29)		
Brass				

Mechanical

Recommended Travel: .067 (1.68)
 Full Travel: .100 (2.54)
 Operating Temperature: -55°C to +150°C

Spring Force in oz. (grams)

	Preload	Rec. Travel
Standard	3.0 (85)	6.0 (170)

Electrical (Static Conditions)

Current Rating: 5 amps
 Average Probe Resistance: <30 mOhms

Materials and Finishes

Plunger: Heat treated BeCu, Gold plated
 Barrel: Brass, Gold plated
 Spring: Stainless Steel, Gold plated
 Ball: Stainless Steel, Gold plated

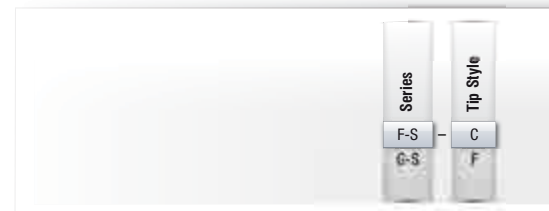
Mounting

Hole diameter: Ø .0860 (2.18)
 Suggested drill: #44

Tip Style

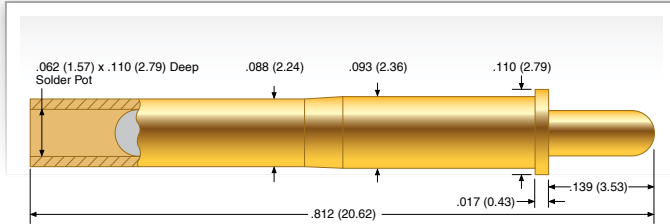
F	R			
Ø .061 (1.55)	Ø .061 (1.55)			

Dimensions in inches (millimeters). Specifications subject to change without notice. Consult factory for other temperature requirements, and applications below -40°C. Stocking Disclaimer: Stocking levels for part numbers listed in this catalog are subject to change. Availability is based on current levels of usage and demand.



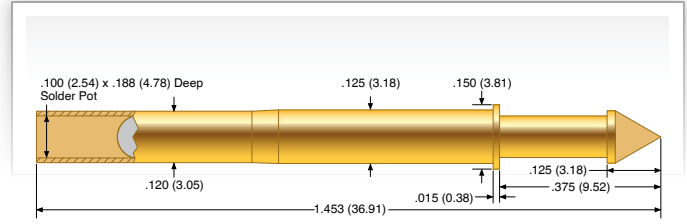
P2532

156 mil (3.96 mm)



P2550

187 mil (4.75 mm)



Mechanical

Recommended Travel: .093 (2.36)
 Full Travel: .139 (3.53)
 Operating Temperature: -55°C to +150°C

Spring Force in oz. (grams)

	Preload	Rec. Travel
Standard	1.0 (28)	2.3 (65)

Electrical (Static Conditions)

Current Rating: 5 amps
 Average Probe Resistance: <30 mOhms

Materials and Finishes

Plunger: Heat-treated BeCu, Gold plated over hard Nickel
 Barrel: Brass, Gold plated
 Spring: Stainless Steel, Gold plated
 Ball: Stainless Steel, Gold plated

Epoxy Mounting

Hole diameter: Ø .0945 (2.40)
 Suggested drill: #41 mm or 2.40 mm

Tip Style

1	2			
Ø .059 (1.50)	Ø .059 (1.50)			

Mechanical

Recommended Travel: .167 (4.24)
 Full Travel: .250 (6.35)
 Operating Temperature: -55°C to +150°C

Spring Force in oz. (grams)

	Order Code	Preload	Rec. Travel
Standard		1.00 (28)	3.20 (91)
High	-8	4.00 (113)	6.70 (190)

Electrical (Static Conditions)

Current Rating: 5 amps
 Average Probe Resistance: <30 mOhms

Materials and Finishes

Plunger: Heat-treated BeCu, Gold plated over hard Nickel
 Barrel: Brass, Gold plated
 Spring: Stainless Steel, Gold plated
 Ball: Stainless Steel, Gold plated

Epoxy Mounting

Hole diameter: Ø .126 (3.20)
 Suggested drill: #30 or 3.20 mm

Tip Style

8	0	6	9	
Ø .156 (3.96)	Ø .122 (3.10)	Ø .154 (3.91)	Ø .125 (3.18)	



GENERAL PURPOSE – PRESS RING MOUNT

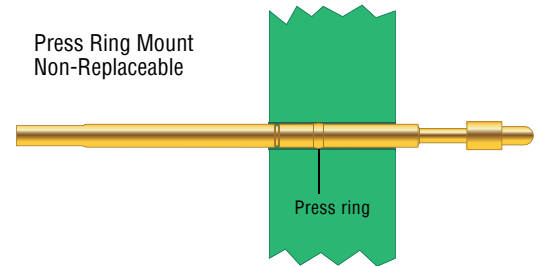
The ECT / Pylon line of standard products includes non-replaceable Pogo contacts. They differ from replaceable contacts in that they do not require a socket or receptacle and are designed to be permanently mounted. Non-replaceable probes are designed for industrial applications where typical probe life meets or exceeds those of the end-use product. They are usually located inside the end product where probe replacement is either impossible or end-product damage would occur.

Electrical connections are typically made by crimping or soldering a wire at the terminal of the probe.

The probe is retained in the retention plate by its press ring, which deforms during the installation process and therefore provides a permanent mount.

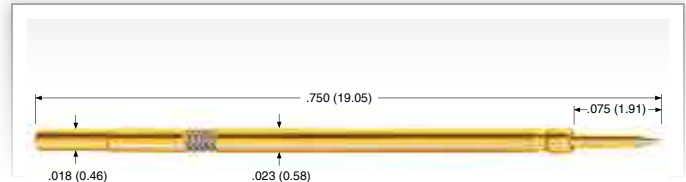
Press Ring Mount

Press Ring Mount
Non-Replaceable



MEP-20

25 mil (0.635 mm)



Mechanical

Recommended Travel: .050 (1.27)
 Full Travel: .075 (1.91)
 Operating Temperature: -55°C to +105°C

Spring Force in oz. (grams)

	Preload	Rec. Travel
Standard	.39 (11)	1.39 (39)

Electrical (Static Conditions)

Current Rating: 2 amps
 Average Probe Resistance: <50 mOhms

Materials and Finishes

Plunger: Heat-treated BeCu, Gold plated over hard Nickel
 Barrel: Work hardened BeCu, Gold plated over hard Nickel
 Spring: Music Wire, Silver plated

Mounting

Hole diameter: Ø .0205 to .0215 (0.52 to 0.55)
 Suggested drill: #75 or 0.52 mm
 Minimum mounting plate thickness: .250 (6.35)

Order versions

MEP-20x Crimp
 MEP-20x-30 Crimp with 30 inches of 30 AWG wire attached

Application

1. The MEP-20 can also be mounted in a staggered pattern to access test pads on centers less than .025".
2. Recommended wire gauge 30 AWG, maximum insulation dia. .019 (0.48).
3. Shrink tubing is recommended for use on alternating receptacles to reduce the possibility of electrical shorting.

Tip Style

B	G	J	U	
Ø .010 (0.25)	Ø .010 (0.25)	Ø .010 (0.25)	Ø .006 (0.15)	

