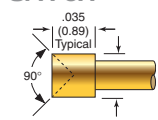
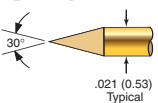


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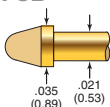
**HPA-OA  
SPA-OA**



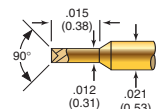
**HPA-OB  
SPA-OB**



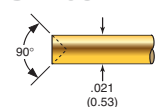
**HPA-OD  
SPA-OD**



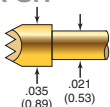
**HPA-OG12  
SPA-OG12**



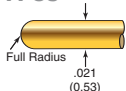
**HPA-OG21  
SPA-OG21**



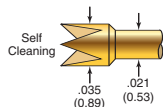
**HPA-OH  
SPA-OH**



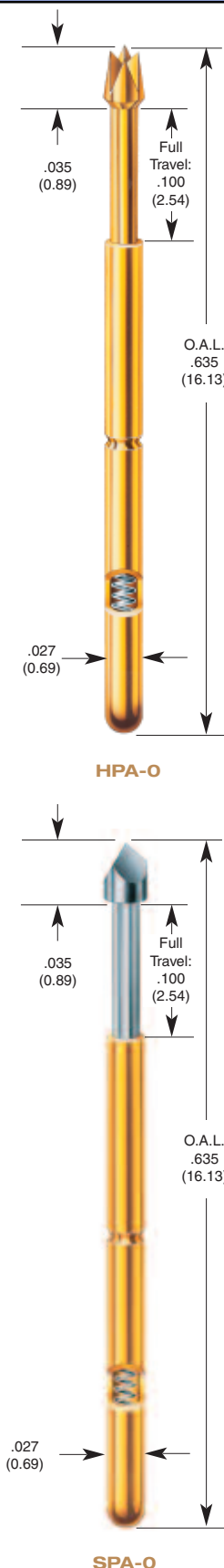
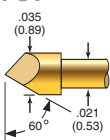
**HPA-OJ  
SPA-OJ**



**HPA-OL  
SPA-OL**



**HPA-OT  
SPA-OT**



**HPA-O**

**SPA-O**

## Probe Specifications

	HPA-O	SPA-O
<b>Mechanical</b>		
Full Travel:	.100 (2.54)	.100 (2.54)
Recommended Working Travel:	.067 (1.70)	.067 (1.70)
Mechanical Life Exceeds:	1 x 10 <sup>6</sup> cycles	1 x 10 <sup>6</sup> cycles
<b>Operating Temperature</b>		
Standard spring:	-55°C to +150°C	-55°C to +150°C
Alternate spring:	-55°C to +105°C	-55°C to +105°C
Consult factory for other temperature requirements, and applications below -40° C.		
<b>Electrical (Static Conditions)</b>		
Current Rating:	3 amps	3 amps
Maximum continuous current, non-inductive at working travel		
<b>Average Probe Resistance</b>	35 mΩ	50 mΩ
<b>Materials and Finishes</b>		
Plunger:	Heat-treated beryllium copper, gold plated over hard nickel	Heat-treated beryllium copper, rhodium plated over hard nickel
Barrel:	Work-hardened phosphor bronze, HPA-GOLD™ plated (I.D. and O.D.) over hard nickel	Work-hardened phosphor bronze, HPA-GOLD™ plated (I.D. and O.D.) over hard nickel
Spring:		
Standard:	Stainless steel, silver plated	Stainless steel, silver plated
Alternate:	Music wire, silver plated	Music wire, silver plated

## Receptacle Specifications

<b>Mounting Hole Size:</b>	.035/.0365 (0.89/0.93) A #64 or 0.92 mm drill is most commonly used.	.035/.0365 (0.89/0.93)
<b>Recommended Wire Gauge:</b>	28-30 AWG	28-30 AWG
<b>Connections:</b>	<p><b>SPR-0W</b> Crimp (To order with 30 inches of 28 AWG wire attached, add -28 to model number. For 30 AWG wire, add -30 to model number.)</p> <p><b>SPR-0W-1</b> Solder cup</p> <p><b>SPR-0W-4</b> FASTITE® wire termination (30 AWG only), maximum insulation diameter .019 (0.48), wire strip length = .125 (3.2)</p> <p><b>DS-62-1</b> Insulation sleeve (use with SPR-0W-4)</p> <p><b>FWA-1-30</b> 30 AWG wire with DS-62-1 insulation sleeve attached</p>	<p><b>SPR-0W</b> Crimp (To order with 30 inches of 28 AWG wire attached, add -28 to model number. For 30 AWG wire, add -30 to model number.)</p> <p><b>SPR-0W-1</b> Solder cup</p> <p><b>SPR-0W-4</b> FASTITE® wire termination (30 AWG only), maximum insulation diameter .019 (0.48), wire strip length = .125 (3.2)</p> <p><b>DS-62-1</b> Insulation sleeve (use with SPR-0W-4)</p> <p><b>FWA-1-30</b> 30 AWG wire with DS-62-1 insulation sleeve attached</p>
<b>Materials and Finishes</b>	Work-hardened nickel silver, gold plated over hard nickel	Work-hardened nickel silver, gold plated over hard nickel

One DS-62-1 sleeve is provided with each SPR-0W-4 receptacle at no charge. If additional quantities are required, please contact the factory for pricing and delivery.

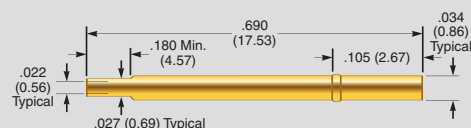
The HPA-O and SPA-O may be used to test bare PCBs on mixed test centers with the HPA-1 and HPA-74 probes, see pages 30 and 33.

## Spring Force in oz. (grams)

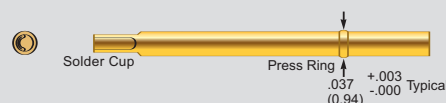
Spring Type	Preload	2/3 Travel
<b>Standard</b> as shown	.61 (17)	2.8 (79)
<b>Alternate</b> -1	.78 (22)	3.7 (105)

Optional spring forces and materials are available.

## SPR-0W



## SPR-0W-1



## SPR-0W-4 (Shown with DS-62-1 installed)

