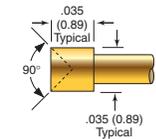
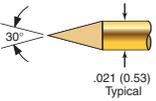


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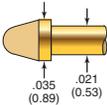
**HPA-OA
SPA-OA**



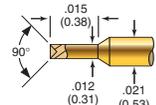
**HPA-OB
SPA-OB**



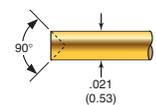
**HPA-OD
SPA-OD**



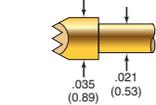
**HPA-OG12
SPA-OG12**



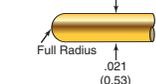
**HPA-OG21
SPA-OG21**



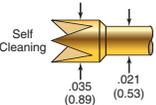
**HPA-OH
SPA-OH**



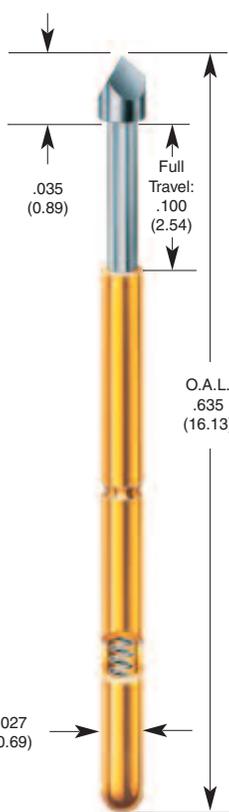
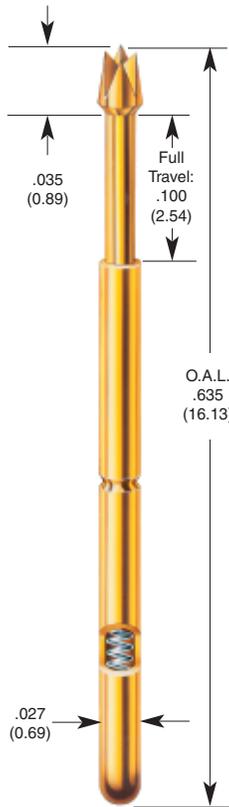
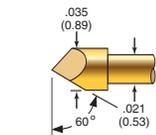
**HPA-OJ
SPA-OJ**



**HPA-OL
SPA-OL**



**HPA-OT
SPA-OT**



HPA-O

SPA-O

Probe Specifications HPA-O

Mechanical
Full Travel: .100 (2.54)
Recommended Working Travel: .067 (1.70)
Mechanical Life Exceeds: 1 x 10⁶ cycles

Operating Temperature

Standard spring: -55°C to +150°C
Alternate spring: -55°C to +105°C
Consult factory for other temperature requirements, and applications below -40° C.

Electrical (Static Conditions)

Current Rating: 3 amps
Maximum continuous current, non-inductive at working travel

Average Probe Resistance

35 mΩ

Materials and Finishes

Plunger: Heat-treated beryllium copper, gold plated over hard nickel
Barrel: Work-hardened phosphor bronze, HPA-GOLD™ plated (I.D. and O.D.) over hard nickel
Spring: Standard: Stainless steel, silver plated
Alternate: Music wire, silver plated

SPA-O

Full Travel: .100 (2.54)
Recommended Working Travel: .067 (1.70)
Mechanical Life Exceeds: 1 x 10⁶ cycles

Receptacle Specifications

Mounting Hole Size: .035/.0365 (0.89/0.93)
A #64 or 0.92 mm drill is most commonly used.

Recommended Wire Gauge: 28-30 AWG

Connections:

SPR-0W 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.)
SPR-0W-1 Solder cup
SPR-0W-4 FASTITE® wire termination (30 AWG only), maximum insulation diameter .019 (0.48), wire strip length = .125 (3.2)
DS-62-1 Insulation sleeve (use with SPR-0W-4)
FWA-1-30 30 AWG wire with DS-62-1 insulation sleeve attached

Materials and Finishes

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)

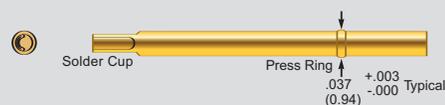
Spring Type	Preload	2/3 Travel
Standard	as shown .61 (17)	2.8 (79)
Alternate	-1 .78 (22)	3.7 (105)

Optional spring forces and materials are available.

SPR-0W



SPR-0W-1



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



Bare PCB Test Probes

Actual Size