

Order your ECT Test Probes from ROMEX B.V. via Phone: +31-(0)317-389787, Fax: +31-(0)317-389780 or E-mail: info@romex.nl.

### Probe Specifications HPA-50

#### Mechanical

Full Travel: .050 (1.27)  
Recommended Working Travel: .050 (1.27)  
Mechanical Life Exceeds: 1 x 10<sup>6</sup> cycles

#### Operating Temperature

-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: Music wire, gold plated

### 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.

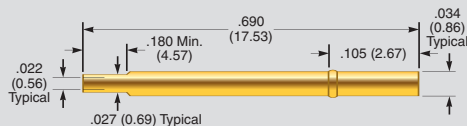
The HPA-50 may be used to test bare PCBs on mixed test centers with the SPA-64 and HPA-52 probes, see pages 31 and 29.

### Spring Force in oz. (grams)

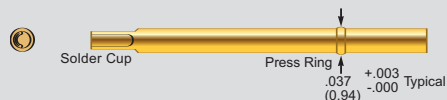
Spring Type	Preload	Full Travel
Standard	1.55 (44)	as shown 3.2 (91)

Optional spring forces and materials are available.

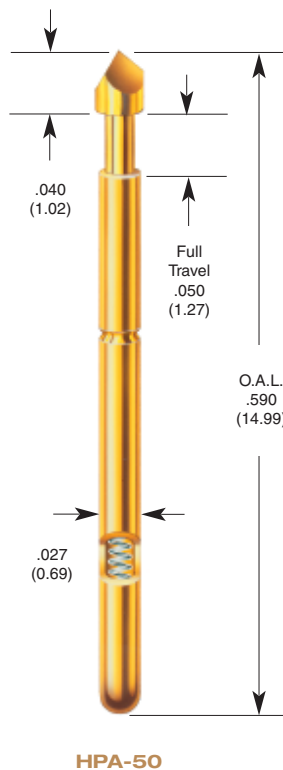
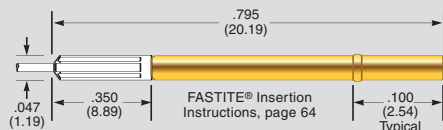
#### SPR-0W



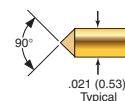
#### SPR-0W-1



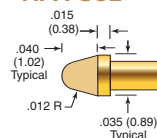
#### SPR-0W-4 (Shown with DS-62-1 installed)



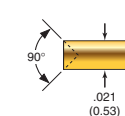
#### HPA-50B



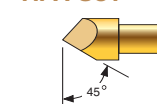
#### HPA-50D



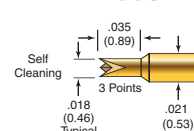
#### HPA-50G



#### HPA-50T



#### HPA-50U



Bare PCB Test Probes

Actual  
Size