

TO ORDER, CALL 909-625-9390

**Probe Specifications SPA-3**

**Mechanical**

Full Travel: .250 (6.35)  
 Recommended Working Travel: .167 (4.24)  
 Mechanical Life Exceeds:  $2 \times 10^6$  cycles

**Operating Temperature**

Standard spring: -55°C to +85°C  
 Alternate spring: -55°C to +150°C  
 Consult factory for other temperature requirements, and applications below -40°C.

**Electrical (Static Conditions)**

Current Rating: 6 amps  
 Maximum continuous current, non-inductive at working travel

**Probe Resistance**

50 mΩ  
 With a standard deviation of <7 mΩ @ 25 mA test current

**Materials and Finishes**

Plunger: Heat-treated beryllium copper, rhodium plated over hard nickel  
 Barrel: Work-hardened nickel silver, gold plated over hard nickel  
 Spring: Standard: Beryllium copper  
 Alternate: Stainless steel  
 Ball: Brass, gold plated

**Receptacle Specifications**

**Mounting Hole Size:** .094/.096 (2.39/2.44)  
 A #41 or 2.4 mm drill is most commonly used.

**Recommended Wire Gauge:** 22-26 AWG

**Connections:**

- SPR-3W** Crimp or push-on termination (AMP terminal 60983-1 or equivalent)
- SPR-3W-1** Solder cup
- SPR-3W-2** wire wrap/square post
- SPR-3Y** Push-on termination (AMP terminal 42827-2 or equivalent)

**Materials and Finishes**

Housing: Work-hardened nickel silver, gold plated  
 Square Post: Phosphor bronze, gold plated

**Spring Force in oz. (grams)**

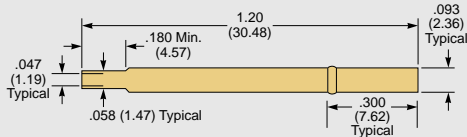
Spring Type      Preload      2/3 Travel

To order, add dash number to Model Number.

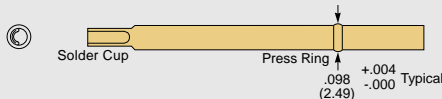
**Standard** as shown      1.60 (45)      4.5 (126)  
**Alternate** -1      2.52 (71)      6.5 (184)

Optional spring forces and materials are available.

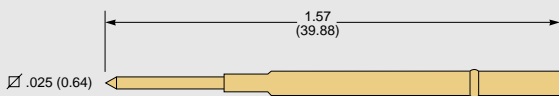
**SPR-3W**



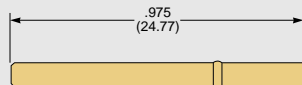
**SPR-3W-1**



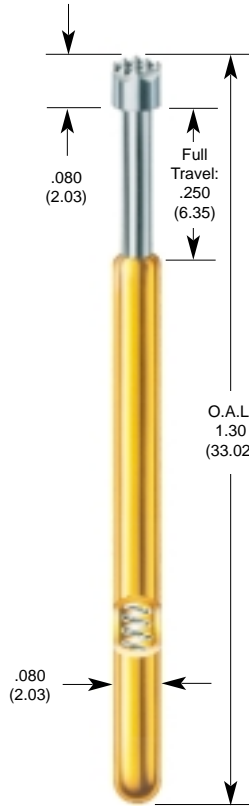
**SPR-3W-2**



**SPR-3Y**

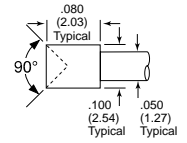


Other applications:

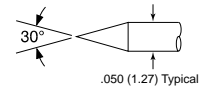


SPA-3

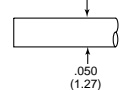
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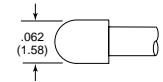
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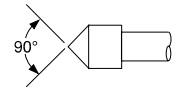
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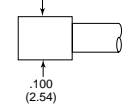
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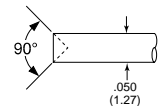
**SPA-3E**



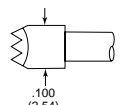
**SPA-3F**



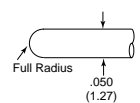
**SPA-3G**



**SPA-3H**



**SPA-3J**



Dimensions in inches (millimeters)      Actual Size