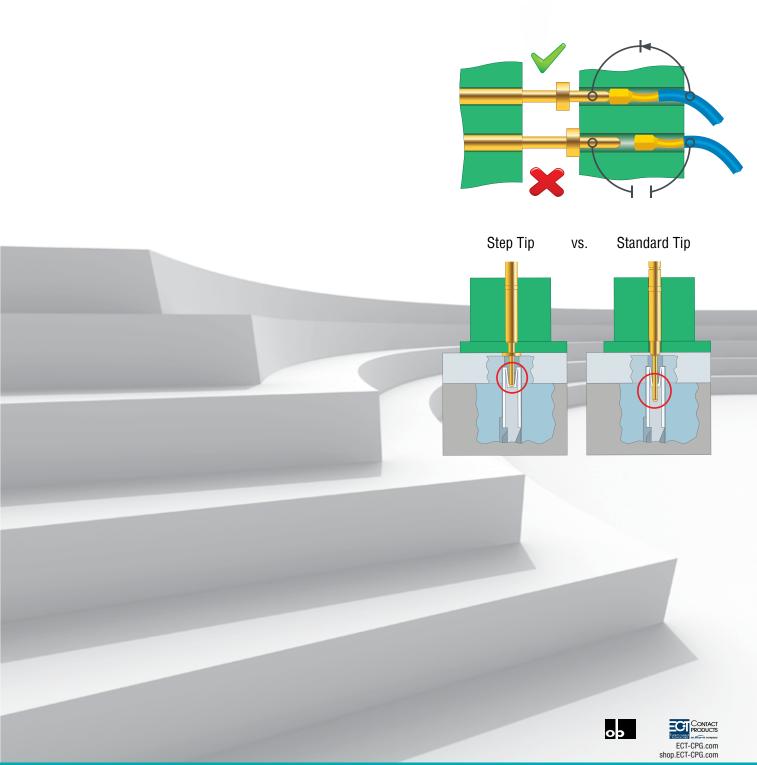
Step Probe

STEP PROBE

A "Step" or "Hat" probe indicates the concept of using a "step" to control the distance of probe tip entry into a wire harness connector housing, thus allowing electrical contact to be made to a terminal without actually entering the terminal. The critical areas of the connector terminal remain virgin to assure proper conductivity and intermetallic relationships once the harness is assembled into its end use.

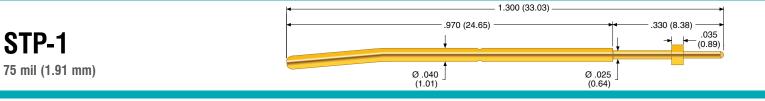
Depending on the customer preference, Step Probes can be either replaceable or non-replaceable. All replaceable Step Probes feature a Pylon Bend, to prevent walkout of the probes from the receptacle. Non-replaceable probes have a press ring, which holds the probe in place and keeps it from walking out of the mounting bracket.

Though used almost exclusively in the wire harness testing industry they can also be used in ICT / FCT testing. ECT offers a variety of pitches and step depths to accommodate most harness test requirements.



Step Probe

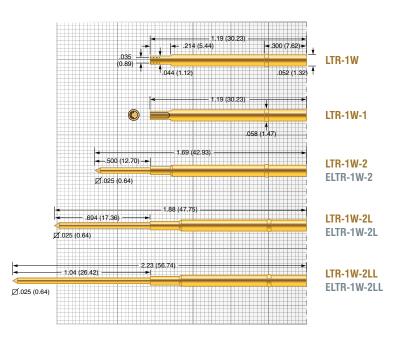
Replaceable Step Probe



Mechanical

Spring Force in oz. (grams)	
Operating Temperature:	-55°C to +150°C
Full Travel:	min135 (3.43)
Recommended Travel:	.120 (3.05)

(Order Code	Preload	Rec. Travel
Standard		1.5 (43)	2.9 (82)
Electrical (Stati	c Conditior	ıs)	
Current Rating:			3 amps
Average Probe	Resistance:		<35 m0hms
Materials and F	inishes		
Plunger:		ted BeCu, G Nickel or R	old plated hodium plated
Barrel:		dened Phosp ed over hard	ohorous Bronze, I Nickel
Spring:	Stainless	Steel, Silve	r plated
Receptacle			
Hole diameter:	Ø	.053 to .05	5 (1.35 to 1.40)
Suggested drill Material	:	#	54 or 1.40 mm
LTR Housing	·	dened Nicke er hard Nick	
• ELTR Housir	0	<i>,</i> 1	
Post:	Phospho	rous Bronze,	Gold plated



Gold plated Tip Style				
J120-3G	J140-3G	J160-3G		
Ø .020 (0.51)	Ø .020 (0.51)	Ø .020 (0.51)		
.060 (1.52) .020 (0.51)	.060 (152) .020 (0.51)	.060 (1.52) .020 (0.51) 		

Rhodium plated	Rhodium plated Tip Style			
J120-3R	J140-3R	J160-3R		
Ø .020 (0.51)	Ø .020 (0.51)	Ø .020 (0.51)		
.060 (152) 020 (0.51)	.060 (1.52) .020 (0.51)	.060 (1.52) .020 (0.51)		



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Dimensions in inches (millimeters). Specifications subject to change without notice. Consult factory for other temperature requirements, and applications below -40 $^\circ\text{C}.$ 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.

over hard Nickel or Rhodium plated

Heat-treated BeCu, Gold plated

Preload

1.5 (43)

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

STP-25 100 mil (2.54 mm)

.120 (3.05)

Rec. Travel

2.9 (82)

5 amps

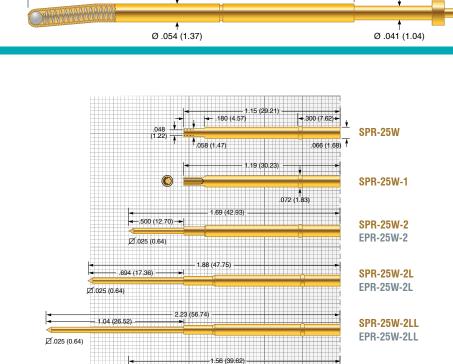
<35 m0hms

min. .135 (3.43)

-55°C to +150°C

Step Probe





Ø.025 (0.64)

←.410 (10.41)→

Gold plated Tip Style

SPR-25W-3

1.300 (33.02)

.970 (24.64) -

C060-3G				
Ø .030 (0.76)				
.070 (1.78) .030 (0.76)				
J060-3G	J080-3G	J100-3G	J140-3G	J160-3G
Ø .025 (0.64)				
.070 (1.78) 025 (0.64)	.070 (1.78) .025 (0.64)	.070 (1.78) .025 (0.64)	.070 (1.78) .025 (0.64)	.070 (1.78) .025 (0.64)
Rhodium plated	Tip Style			
Ø .030 (0.76)				
.070 (1.78) 0.30 (0.76)				
J060-3R	J080-3R	J100-3R	J140-3R	J160-3R
Ø .025 (0.64)				

Mechanical

Recommended Travel:

Operating Temperature:

Spring Force in oz. (grams)

Electrical (Static Conditions)

Average Probe Resistance:

Materials and Finishes

Full Travel:

STP-25

Current Rating:

Plunger:

.330 (8.38)

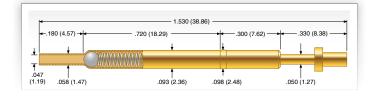
	Series		Size	Tip Style	Plating	
Gold	STP	ЪÍ	25	J100	- 3G	1
Rhodium	STP		25	J100	3R	ſ.
		1				1





SPL-03

125 mil (3.18 mm)



Mechanical

Recommended Travel:	
• SPL-03C-114 / -153	.127 (3.23)
• SPL-03C-090	.220 (5.59)
Operating Temperature • SPL-03C-090 • SPL-03C-114 / -153	-55°C to +105°C -55°C to +85°C

Spring Force in oz. (grams)

		Preload	Rec. Travel
SPL-03C-090		0.8 (23)	2.3 (65)
SPL-03C-114		1.7 (48)	4.0 (113)
SPL-03C-153		1.6 (45)	4.0 (113)
Electrical (Static C	onditions)		
Current Rating:	,		6 amps
Average Probe Res	stance:		<50 mOhms
Materials and Finis	hes		
Plunger:	Heat-treated BeCu, Gold plated over hard Nickel Heat-treated BeCu, Rhodium plated over hard Nickel		
Barrel:	Work-harden plated over h		e or Nickel Silver, Gold
Spring:	Music Wire, S	Silver plated or Be	Cu, Silver plated
Ball:	Hardened Bra	iss or hardened Bra	ass, Gold plated
Mounting Options			
Hole diameter:		ĺ	0.094 to .096 (2.39 to 2.44)
Recommended wire	e gauge:		22-26 AWG
Recommended dril	l size:		#41 or 2.40 mm

Gold plated Ti	p Style	
C-090	C-114	
Ø .030 (0.76)	Ø .070 (1.78)	
.030 (0.76)	.120 (3.05) .070 (1.78)	
Rhodium plate	d Tip Style	

C-153		
Ø .060 (1.52)		
.120 (3.05) .060 (1.52) 		



