BATTERY PROBE

Battery probes are typically contained in modules where consistent long-life, low-resistance, electrical and mechanical connections are required. ECT battery probes offer superior durability in high cycle life applications compared to leaf spring applications. Pogo based solutions can maintain consistent electro-mechanical characteristics in excess of mission cycles. When mating planar tolerances pose a challenge or a longer reach is required, spring probes are the preferred solution.

Battery probes are typically molded into a housing and soldered either to mating PCB or terminal to provide a permanent stable and reliable electrical and mechanical connection.

Everett Charles Technologies versatile line of battery interconnect probes gives you design flexibility to match your performance, cost, and assembly requirements. Our design expertise and complete manufacturing capabilities will help you bring your product to market quickly and easily. As part of our customer service commitment, these products can be modified or custom designed to meet your needs. Contact us to discuss the limitless possibilities.



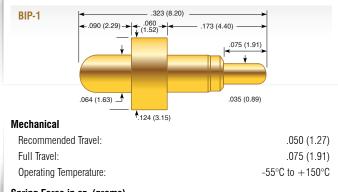




BIP-2

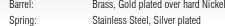
BIP-8

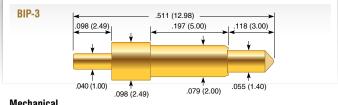
BIP-1 BIP-3



Spring Force in oz. (grams)

	I	Preload	Rec. Travel
Standard	1	1.18 (33)	3.25 (92)
Electrical (Stat Current Rating: Average Probe	,		5 amps <16 mOhms
Materials and Finishes			
Plunger:	BeCu, Gold plated	over hard Ni	ckel
Barrel	Brass Gold plated	over hard Ni	ckel



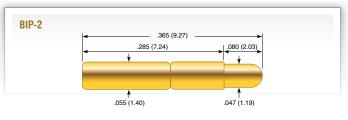


Mechanical

Recommended Travel:	.060 (1.52)
Full Travel:	.100 (2.54)
Operating Temperature:	-55°C to +105°C

Spring Force in oz. (grams)

	Order Code	Preload	Rec. Travel
Standard		0.30 (8.5)	1.06 (30)
Alternate	-1	1.1 (31)	3.40 (86)
Electrical (Sta Current Rating Average Probe): 		5 amps <30 mOhms
Materials and	Finishes		
Plunger:	Brass, Gold	plated over hard Nicke	9
Barrel:	Brass, Gold	plated over hard Nicke	el e
Spring:	Music Wire,	Silver plated	

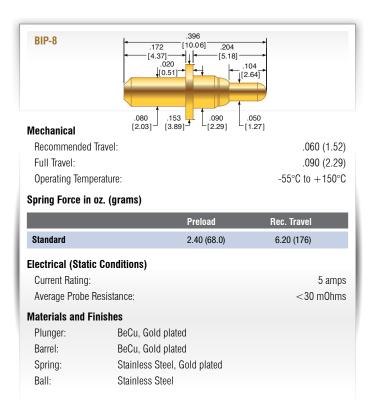


Mechanical

Recommended Travel:	.050 (1.27)
Full Travel:	.050 (1.27)
Operating Temperature:	-55°C to +150°C

Spring Force in oz. (grams)

		Preload	Rec. Travel
Standard		1.10 (31)	3.85 (109)
Electrical (Stati	ic Conditions)		
Current Rating:			5 amps
Average Probe Resistance:			<30 mOhms
Materials and F	inishes		
Plunger:	Heat-treated	BeCu, Gold plated of	ver hard Nickel
Barrel:	Work-hardened Nickel Silver, Gold plated over hard Nickel		
Spring:	Stainless Ste	eel, Silver plated	







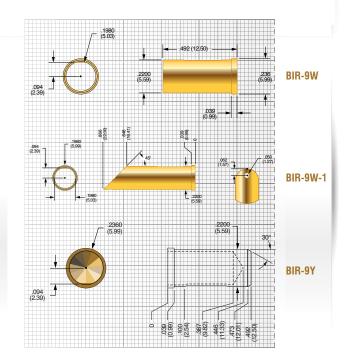
Brass, Gold plated

BIP-10

BIP -	-12

BIP-10	.591 .354 [15] [9]	.197 [5]	-	
			Y I I I I I I I I I I I I I I I I I I I	
	.196 .236 . 1.97] [6]	.157 [4]		
echanical ¹⁴ Recommended Travel:		[.]		.126 (3.20)
Full Travel:				.157 (4.00)
Operating Temperature:			-40°(C to +80°C
pring Force in oz. (grams)				
	Preload		Rec. Tra	
Standard	1.00 (28.3	3)	5.40 (15	53)
ectrical (Static Conditions Current Rating:	6)			5 amos
Average Probe Resistance:		<30 m0hr	ms, Steel,	5 amps Gold plated
				inless Steel
aterials and Finishes				
Plunger: Brass,	Gold plated			
Barrel: Brass,	Gold plated	ed		
Barrel: Brass, Spring: Stainle		ed		
Barrel: Brass, Spring: Stainle eceptacle Hole Diameter:	Gold plated		o 0.228 (5	.61 to 5.79)
Barrel: Brass, Spring: Stainle eceptacle Hole Diameter: Suggested drill:	Gold plated			#2 or #1
Barrel: Brass, Spring: Stainle eceptacle Hole Diameter:	Gold plated			
Barrel: Brass, Spring: Stainle eceptacle Hole Diameter: Suggested drill:	Gold plated			#2 or #1
Barrel: Brass, Spring: Stainle eceptacle Hole Diameter: Suggested drill: Material Housing:	Gold plated			#2 or #1
Barrel: Brass, Spring: Stainle eceptacle Hole Diameter: Suggested drill: Material Housing:	Gold plated			#2 or #1
Barrel: Brass, Spring: Stainle eceptacle Hole Diameter: Suggested drill: Material Housing:	Gold plated			#2 or #1 Gold plated
Barrel: Brass, Spring: Stainle eceptacle Hole Diameter: Suggested drill: Material Housing:	Gold plated			#2 or #1 Gold plated
Barrel: Brass, Spring: Stainle ecceptacle Hole Diameter: Suggested drill: Material Housing:	Gold plated ess Steel, Silver plate			#2 or #1 Gold plated
Barrel: Brass, Spring: Stainle ecceptacle Hole Diameter: Suggested drill: Material Housing:	Gold plated ess Steel, Silver plate	0.221 te		#2 or #1 Gold plated
Barrel: Brass, Spring: Stainle ecceptacle Hole Diameter: Suggested drill: Material Housing:	Gold plated ess Steel, Silver plate	0.221 tr	Brass,	#2 or #1 Gold plated
Barrel: Brass, Spring: Stainle ecceptacle Hole Diameter: Suggested drill: Material Housing:	Gold plated ess Steel, Silver plate	0.221 te	Brass,	#2 or #1 Gold plated
Barrel: Brass, Spring: Stainle eceptacle Hole Diameter: Suggested drill: Material Housing:	Gold plated ess Steel, Silver plate	0.221 tr	Brass,	#2 or #1 Gold plated
Barrel: Brass, Spring: Stainle eceptacle Hole Diameter: Suggested drill: Material Housing:	Gold plated ess Steel, Silver plate	0.221 tr	Brass,	#2 or #1 Gold plated
Barrel: Brass, Spring: Stainle ecceptacle Hole Diameter: Suggested drill: Material Housing:	Gold plated ess Steel, Silver plate	0.221 tr	Brass,	#2 or #1 Gold plated BIR-9W BIR-9W-1
Barrel: Brass, Spring: Stainle eceptacle Hole Diameter: Suggested drill: Material Housing:	Gold plated ess Steel, Silver plate	0.221 tr	Brass,	#2 or #1 Gold plated
Barrel: Brass, Spring: Stainle ecceptacle Hole Diameter: Suggested drill: Material Housing:	Gold plated ess Steel, Silver plate	0.221 tr	Brass,	#2 or #1 Gold plated BIR-9W BIR-9W-1

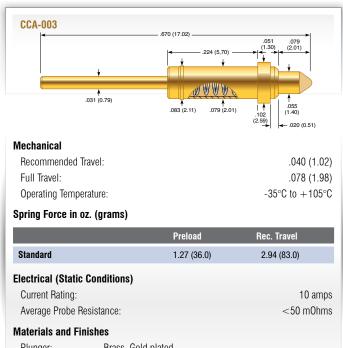
BIP-12 1.220 [31] 787 .394 [20] .039 [10] [1] Ţ .197 🗋 .236 上 .156 [5] [6] [3.95] Mechanical Recommended Travel: .315 (8.00) Full Travel: .394 (10.00) Operating Temperature: -40°C to +80°C Spring Force in oz. (grams) Preload Rec. Travel 0.87 (24.7) 5.40 (153) Standard **Electrical (Static Conditions)** Current Rating: 5 amps Average Probe Resistance: < 30 mOhms, Steel, Gold plated <100 mOhms, Stainless Steel **Materials and Finishes** Plunger: BeCu, Gold plated Barrel: Brass, Gold plated Spring: Stainless Steel, Silver plated Receptacle Hole Diameter: 0.221 to 0.228 (5.61 to 5.79) Suggested drill: #2 or #1 Material Housing:



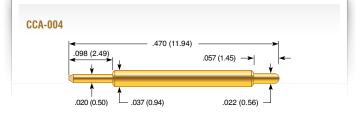
Dimensions in inches (millimeters). Specifications subject to change without notice. Consult factory for other temperature requirements, and applications below -40°C. Stocking Disclaimer: Stocking levels for part numbers listed in this catalog are subject to change. Availability is based on current levels of usage and demand.

CCA-006

CCA-003 CCA-004



Watchia	
Plunger	: Brass, Gold plated
Barrel:	Brass, Gold plated
Spring:	Music Wire, Gold plated



Mechanical

Spring:

.040 (1.02)
.057 (1.45)
-35°C to +105°C

Spring Force in oz. (grams)

		Preload	Rec. Travel
Standard		0.83 (24.0)	2.85 (81.0)
Current Rating:	Electrical (Static Conditions) Current Rating: Average Probe Resistance:		
Materials and Finishes			
Plunger:	Brass, Gold plate	d	
Barrel:	Brass, Gold plate	d	

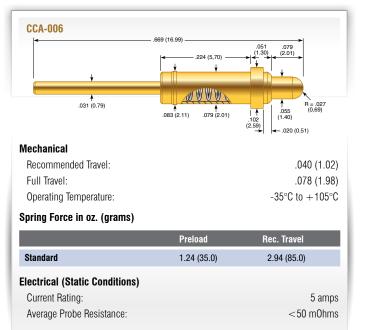
Music Wire, Gold plated

Stocking Disclaimer: Stocking levels for part numbers listed in this catalog are subject to change.

Dimensions in inches (millimeters). Specifications subject to change without notice.

Consult factory for other temperature requirements, and applications below -40 $^\circ\text{C}.$

Availability is based on current levels of usage and demand.



Materials and Finishes

Plunger:	Brass, Gold plated
Barrel:	Brass, Gold plated
Spring:	Music Wire, Gold plated



CP-059-019 CP-059-025

CP-05	9-026
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CP-059-019	.024 (0.61)	.031 (0.79)	(1.68)
Vechanical			
Recommended T	ravel:		.040 (1.02)
Full Travel:			.062 (1.57)
Operating Tempe	rature:		-55°C to +150°C
Spring Force in a	z. (grams)		
		Preload	Rec. Travel
Standard		1.63 (46.0)	4.50 (128)
Electrical (Static	Conditions)		
Current Rating:	,		10 amps
Average Probe R	esistance:		<25 mOhms
Vaterials and Fi	nishes		
Dlungor	Brass, Gold	l plated	
Plunger:	Brass, Gold plated		
Plunger: Barrel:	DI855, GUIL	i plated	
•		teel, Gold plated	

	.024 .075	.059 .036	
Mechanical	[0.61] [1.91] [[1.50] [0.91]	
Recommended 1	Fravel:		.040 (1.02)
Full Travel:			.057 (1.45)
Operating Tempe	erature:		-55°C to +150°C
Spring Force in (oz. (grams)		
	Pr	eload	Rec. Travel
Standard		reload 81 (23.0)	Rec. Travel 4.50 (128)
	0.1		
	0.1		4.50 (128)
Electrical (Static	0.4 Conditions)		4.50 (128) 10 amps
Electrical (Static Current Rating: Average Probe R	0.4 Conditions) lesistance:		4.50 (128) 10 amps
Electrical (Static Current Rating:	0.4 Conditions) lesistance:	81 (23.0)	

Stainless Steel, Gold plated

.221 [5.61] CP-059-026 ___.124 __ [3.15] __ .066 __ [1.68] 0.79 .075 [1.91] .059 [1.50] .036 [0.91] Mechanical Recommended Travel: .040 (1.02) Full Travel: .057 (1.45) -55°C to +150°C Operating Temperature: Spring Force in oz. (grams) Preload Rec. Travel Standard 0.81 (23.0) 4.50 (128) **Electrical (Static Conditions)** Current Rating: 10 amps

Average Probe Resistance: <25 mOhms</td> Materials and Finishes Plunger: Brass, Gold plated Barrel: Brass, Gold plated Spring Standard: Stainless Steel, Gold plated

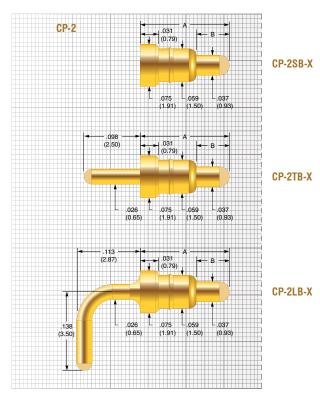
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Dimensions in inches (millimeters). Specifications subject to change without notice. Consult factory for other temperature requirements, and applications below -40°C. Stocking Disclaimer: Stocking levels for part numbers listed in this catalog are subject to change. Availability is based on current levels of usage and demand.

Spring:

CP-2



Mechanical

	Size 4	Size 6	Size 8	Size 12
Recommended Travel:	0.030 (0.75)	0.059 (1.50)	0.079 (2.00)	0.118 (3.00)
Full Travel:	0.039 (1.00)	0.069 (1.75)	0.089 (2.25)	0.128 (3.25)
Operating Temperature:	-55°C to +155°C			
Spring Force in oz. (grams	5)			
Preload	0.66 (18.7)	1.32 (37.4)	1.17 (33.3)	0.95 (26.9)
Rec. Travel	4.5 (127.6)	4.5 (127.6)	4.5 (127.6)	4.5 (127.6)
Mechanical				
Dimension A	0.158 (4.00)	0.236 (6.00)	0.315 (8.00)	0.472 (12.00)
Dimension B	0.059 (1.50)	0.087 (2.20)	0.114 (2.90)	0.169 (4.30)
Electrical (Static Condition	15)			
Current Rating		5	A	
Average Probe Resistance	ce 50 m0hms			
Materials and Finishes				
Plunger:		BeCu, Gol	d plated	
Barrel:		Brass, Gol	d plated	
Spring:		Stainless	s Steel	





CP-4

Mechanical

Spring:

Ball:

Recommended T	ravel:		.040 (1.01)	
Full Travel:			.060 (1.52)	
Operating Tempe	rature:		-55°C to +150°C	
Spring Force in a	z. (grams)			
	I	Preload	Rec. Travel	
Standard	(0.49 (13.89)	2.50 (70.87)	
Electrical (Static	Conditions)			
Current Rating:			10 amps	
Average Probe R	esistance:		<25 mOhms	
Materials and Finishes				
Plunger:	BeCu, Gold plated			
Barrel:	Brass, Gold plated			

Stainless Steel, Gold plated

Stainless Steel

