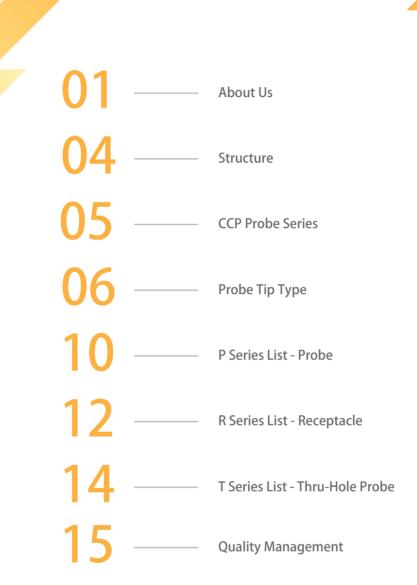
In-Circuit Testing Probes

In-Circuit Testing Printed Circuit Board Testing



TABLE OF CONTENT



C.C.P. Contact Probes Co., Ltd. is a leading global manufacturer of Contact Probes, Pogo Pins, Testprobes, Springloaded Connectors, and Crown Spring Connectors.

ABOUT US

Introduction

In 1986 we began as a specialized provider of test probes and socket auxiliary solutions and slowly expanded our product portfolio in related industries such as electronic components manufacturing. Among our customers are renowned brands like Apple and Amazon and our products are revered by our customers for their exceptional reliability and superior quality.

Our research and development teams are continuously improving our existing products and bringing new innovations to the market to meet the growing demands of our clients. Since 2001 CCP Contact Probes has been a public traded company listed on the Taiwan Stock Exchange. Today CCP has subsidiaries in the United States, China, Germany, India, Japan and Singapore, meeting the needs of our customers around the world.



ABOUT US

History

CCP Germany, Singapore & India Established

High Current Connector Product Line

CCP USA Established

Listed on Taiwan Stock Market (TW. 6217))

Commercial Connector Product Line

CCP Dongguan Factory Established

CCP Established/ Testing Product Line

Company Culture



Yearly Home Visit

Employee's Children Summer Camp

Tuition Subsidy for Employee's Children





Over 30 Years of Product Development Experience Servicing Industry-leading Clients



Agile and Flexible Design Process with Self-owned Turning and Plating Factory



A Proven Track-record of Reliability, an Industry Certified Quality Management System, and State-of-the-art Production Equipment

Product Lines



Testing Solutions



Commercial Connector Solutions



High Current Connector Solutions



Industrial Connector Solutions

STRUCTURE

Plunger -

Beryllium Copper or SK4 Alloy with Gold or Rhodium Plating

Barrel Brass or Phosphor Bronze Alloy with Gold Plating.

Receptical

e.

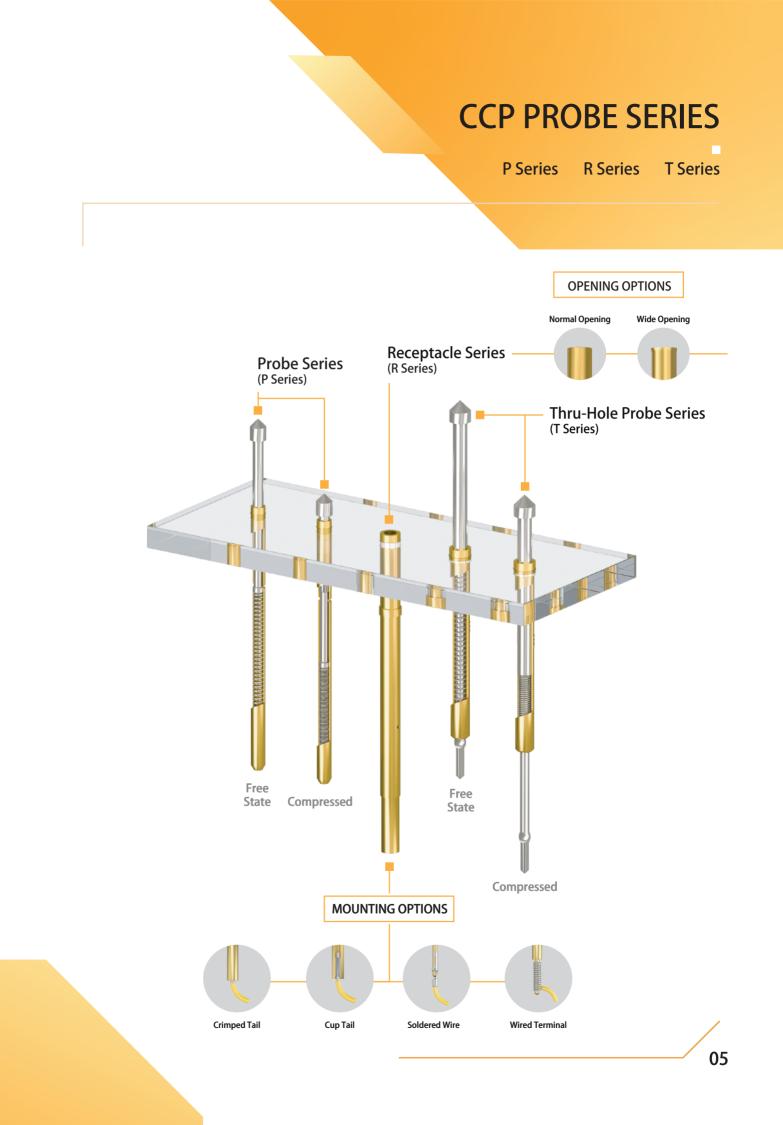
S

Brass or Phosphor Bronze Alloy with Gold Plating

Spring -Stainless Steel Alloy or Music Wire with Gold Plating

















Large Star

Used to penetrate through holes, pads and gold edge fingers. Will not be contaminated by dust.



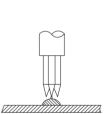
Large Needle 3

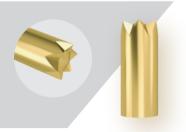
Used to test lands and pads. Needles can penetrate thin layers of oxides or contaminations.



Large Needle 7

Used to test lands and pads. Needles can penetrate thin layers of oxides or contaminations.

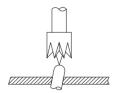


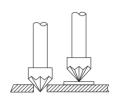




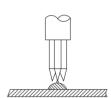
Large 7 Points

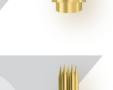
Used to test lands, terminals, and wire wrap posts.

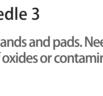




\[\]

















L7M

Large 7 Points with Large Middle Center

Used to tes lands, terminals, and wire wrap posts.

Medium 3 Side Chiseled

Used to test through holes, pads and gold edge fingers.



Used to test through holes, pads and gold edge fingers.



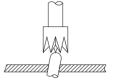
Medium 4 Side Chiseled

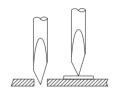
Used to test through holes, pads and gold edge fingers.

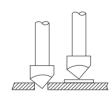


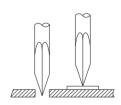
Large 4 Side Chiseled

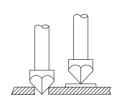
Used to test through holes, pads and gold edge fingers.





















Medium Cup

Used to test long leads, terminals and wire wrap posts.



Large Cup Used to test long leads, terminals and wire wrap posts.



Used to test through holes, pads and gold edge fingers.



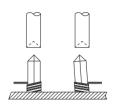
Medium Round

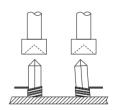
Used to test gold edge fingers and gold pads. Leaves no marks or indentations.

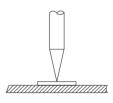
LR

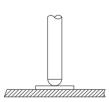
Large Round

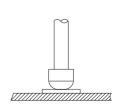
Used to test gold edge fingers and gold pads. Leaves no marks or indentations.















LA Large Awl

Used to test through holes, pads and gold edge fingers.



Medium 4 Points

Used to test narrow lands. Will not be contaminated by dust.



Large 4 Points

Used to test narrow lands. Will not be contaminated by dust.

S4

Small 4 Points

Used to test narrow lands. Will not be contaminated by dust.



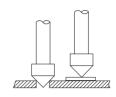
Medium Flat

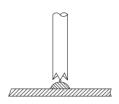
For testing pads and gold edge-fingers. Contact leaves no marks or indentations.

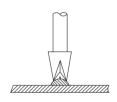


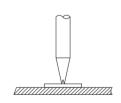
Large Flat

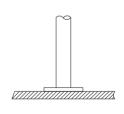
For testing pads and gold edge-fingers. Contact assured leaves no marks or indentations.

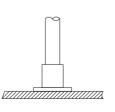


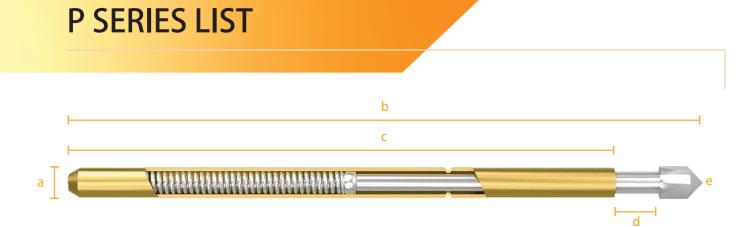












Coding Rule:

0.35

0.38

0.38

0.48

0.48

0.58

0.58

0.68

0.68

0.68

Recommended Pitch 0.70mm

Recommended Pitch 0.80mm

Recommended Pitch 0.90mm

Recommended Pitch 1.00mm

Recommended Pitch 1.27mm

Example:

ICT-P:	a-b-c-d-e:	f-g-h-i
P Series	Dimensions	Materials

P Series

Materials

12.50

12.00

12.50

12.00

12.60

15.00

15.60

16.35

16.55

24.70

P Series

11.00

10.00

10.00

10.00

10.00

13.00

13.00

13.00

13.00

18.50

а	b	С
Barrel Diameter in mm	Full Length in mm	Barrel Length in mm
Recommended Pitch 0.45mm		
0.20	11.50	10.00
Recommended Pitch 0.50mm		
0.26	12.50	11.00
Recommended Pitch 0.65mm		
0.30	11.50	10.00

d	

Full Stroke

01.50

01.50

01.50

01.50

02.00

02.00

02.00

02.00

02.00

02.00

03.35

02.65

04.20

in mm

Dimensions

ICT-P: 020-1150-1000-0150-E : BC-Au-BR-Au

e

Tip Type See Tip Type Page

Materials

f

Plunger Base BC: Beryllium Copper SK4: High Carbon Steel

g

Plunger Plating Au: Gold Rh: Rhodium NA: None

h

Barrel Base PB: Phosphor Bronze BR: Brass

i

Barrel Plating Au: Gold

10

P SERIES LIST

b a С **Barrel Diameter** Full Length **Barrel Length** Full Stroke in mm in mm in mm in mm

Recommended Pitch 1.90) mm		
1.01	16.35	13.00	03.35
1.01	17.04	13.00	02.54
1.01	24.20	18.50	04.20
1.01	33.30	25.00	06.30
1.01	38.30	25.00	06.30
Recommended Pitch 2.54	4 mm		
1.36	23.50	18.50	03.00
1.36	24.70	18.50	04.20
1.36	33.30	25.00	06.30
1.36	38.30	25.00	06.30
1.37	09.70	07.50	02.20
1.37	10.00	07.50	01.50
Recommended Pitch 3.12	7 mm		
2.00	33.35	25.00	06.35
Recommended Pitch 3.97	7mm		
2.36	34.10	25.00	06.60

d

Тір Туре See Tip Type Page

f

e

Plunger Base BC: Beryllium Copper SK4:High Carbon Steel

g

Plunger Plating Au: Gold Rh: Rhodium NA: None

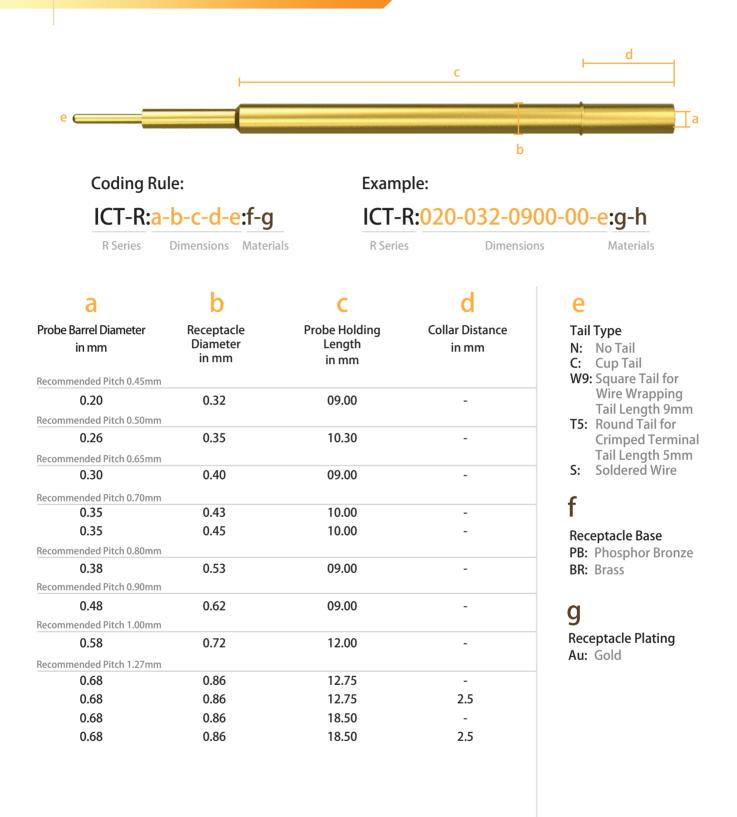
h

Barrel Base **PB:** Phosphor Bronze BR: Brass

i

Barrel Plating Au: Gold

R SERIES LIST



12

R SERIES LIST

а	b	С	d
Probe Barrel Diameter in mm	Receptacle Diameter in mm	Probe Holding Length in mm	Collar Distance in mm
Recommended Pitch 1.27mm			
1.01	1.31	12.70	-
1.01	1.31	12.70	4.0
1.01	1.31	12.70	2.5
1.01	1.31	18.50	
1.01	1.31	18.50	2.5
1.01	1.31	18.50	4.0
1.01	1.31	25.00	-
1.01	1.31	25.00	7.5
Recommended Pitch 2.54mm			
1.36	1.66	18.50	-
1.36	1.66	18.50	2.5
1.36	1.66	18.50	5.5
1.36	1.66	25.00	-
1.36	1.66	25.00	2.5
1.36	1.66	25.00	5.0
1.36	1.66	25.00	7.5
1.37	1.66	07.50	2.5
1.37	1.66	07.50	-
Recommended Pitch 3.17mm			
2.00	2.36	25.00	-
2.00	2.36	25.00	7.5
Recommended Pitch 3.97mm			
2.36	2.69	24.70	-
2.36	2.69	24.70	7.6

e

Tail Type

- N: No Tail C: Cup Tail W9: Square Tail for Wire Wrapping Tail Length 9mm T5: Round Tail for Crimped Terminal
- Crimped Terminal Tail Length 5mm S: Soldered Wire

f

Receptacle Base

PB: Phosphor Bronze BR: Brass

g **Receptacle Plating**

Au: Gold



Coding Rule:

Example:

T Series Dimensions	Materials	T Series	Dimensions	Materials
а	b	С	d	е
Barrel Diameter in mm	Full Length in mm	Board to Tip Length in mm	Full Stroke in mm	Tip Type See Tip Type Page
Recommended Pitch 1.70mm				f
0.98	20.50	07.00	04.50	Tail Type N: No Tail
Recommended Pitch 2.00mm				
1.34	27.00	10.00	06.00	C: Cup Tail
Recommended Pitch 2.50mm				W9: Square Tail for
1.83	36.00	16.00	12.00	Wire Wrapping
2.00	43.00	16.00	06.00	Tail Length 9mm T5: Round Tail for
2.00	50.00	23.00	06.00	Crimped Termina
Recommended Pitch 0.80mm	Tail Length 5mm			
2.33	38.00	16.00	10.50	S: Soldered Wire
Recommended Pitch 0.90mm	g			
3.00	50.00	16.00	06.00	Plunger Base BC: Beryllium Copper
3.00	54.00	20.00	06.00	
3.00	54.00	23.00	06.00	
Recommended Pitch 1.27mm				PB: Phosphor Bronze SK4: High Carbon Stee
3.23	38.00	16.00	10.00	JILT. High Carbon Stee



Barrel Plating Au: Gold NA: None

Plunger Plating Au: Gold Rh: Rhodium

Nickel NA: None

Barrel Base

BR: Brass

PB: Phosphor Bronze

POM: Polyoxymethylene

Ni:

i

j

QUALITY MANAGEMENT

Quality System

ISO 9001: 2015 Quality Management System

ISO 14001: 2015 Environmental Management System

IATF 16949: 2016 Automotive Quality Management System

QC 080000 Hazardous Substance Process Management

Quality Assurance





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