Series	Center	Page
1064	100 mil / 2.54 mm	149
5303	100 mil / 2.54 mm	150
5305	100 mil / 2.54 mm	151
5099	118 mil / 3.00 mm	152
5099.04	118 mil / 3.00 mm	153
5110	160 mil / 4.00 mm	154
5082	256 mil / 6.50 mm	155
5082.01	256 mil / 6.50 mm	156
5082/L	256 mil / 6.50 mm	157

Battery Test Probes

As Battery Test Probes, they are used, for example, wherever it is necessary to charge the rechargeable batteries in mobile devices such as scanners, card readers, communication devices, etc. In many cases, they are also used to connect two PCBs. In addition to many standard products, PTR specializes in customer-specific solutions.

As a result of our wealth of experience in the connection terminal sector, we know exactly what is important in the mounting of PCBs. In addition to complete interface pin blocks (see page 158), of course our products are also available belted and with "pick & place" pads. We develop professional solutions together with our customers, and then implement them precisely.

Selected Applications

- Mobile process data acquisition devices
- Medical devices
- Military devices
- PCB technology
- Mobile communication
- Audio-video applications
- Data acquisition devices
- Automotive equipment
- Heating control units

Series 1064

- Short, compact size
- Board-to-board contacting
- For use in charging units

Mechanical Data	
Center	2.54 mm / 100 mil
Full Travel	1.27 mm
Working Travel	1.27 mm
Pre-Loaded Spring Force	0.20/ 0.35/ 0.75 N
Spring Force at Working Travel	0.60/ 1.25/ 1.85 N

Electrical Data	
Max. Current Rating	5.0 A
Typical Continuity Resistance	≤ 185 mOhm

Materials	
Barrel	Nickel Silver, non plated
Spring	Spring Steel, Stainless Steel, silver plated
Plunger	CuBe, gold plated
Receptacle	Nickel Silver, non plated

Recommended Diameter of Drill	
HP 2361.1 (Trolitax)	1.70...1.75 mm
HGW 2372 (Glass filled Material)	1.70...1.75 mm

How to Order

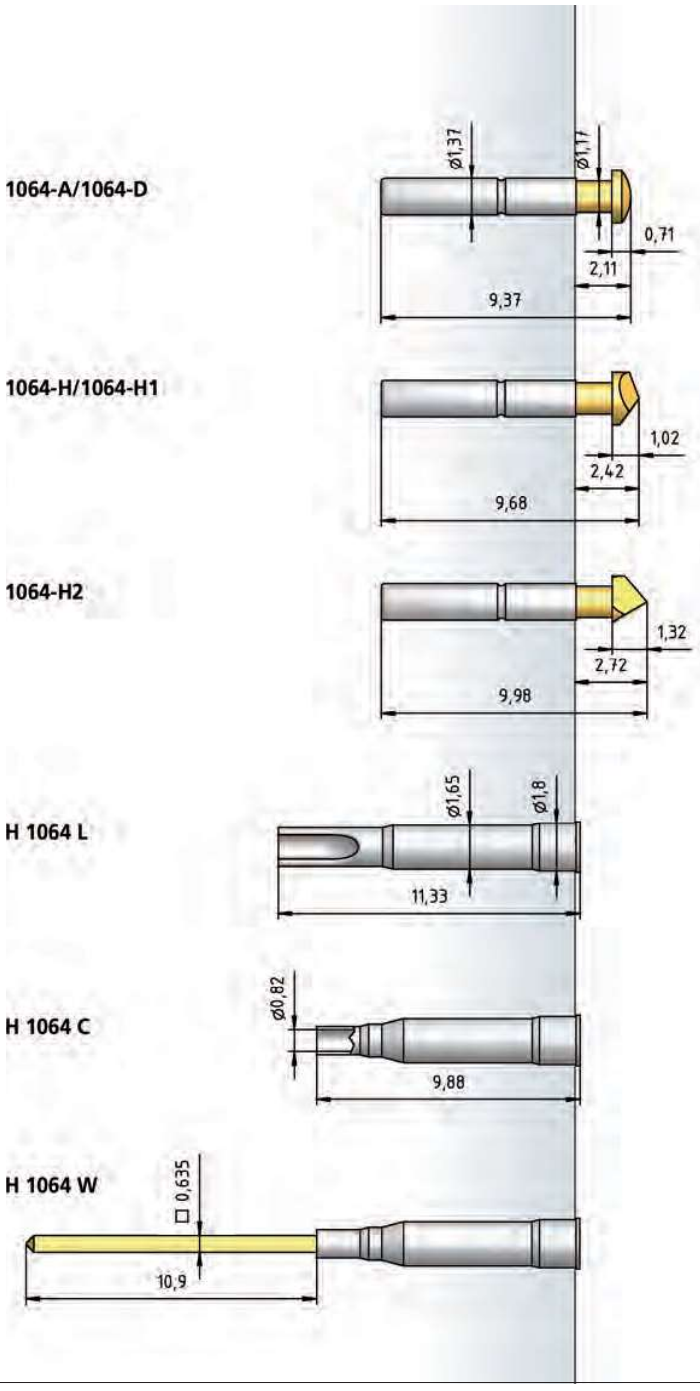
1064 - D - 0.6 N - Au - 1.96 C
1 2 3 4 5 6

1. Series 2. Tip Style 3. Spring Force 4. Tip Plating 5. Tip Diameter 6. Tip Material (only for CuBe)

Tip Style · Diameter · Plating

A	D	D	H	H
1.96C Au	1.96C Au	1.17C Au	1.96C Au	3.30C Au

H	H1	H1	H2
3.96C Au	1.57C Au	2.49C Au	1.96C Au



Series 5303

- Short, compact size
- Board-to-board contacting
- For use in charging units

Mechanical Data	
Center	2.54 mm / 100 mil
Full Travel	1.40 mm
Working Travel	0.70 mm
Pre-Loaded Spring Force	0.25 N
Spring Force at Working Travel	0.85 N

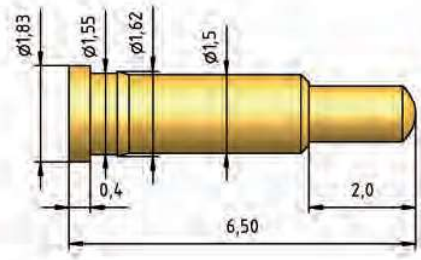
Electrical Data	
Max. Current Rating	3.5 A
Typical Continuity Resistance	≤ 20 mOhm

Materials	
Barrel	Brass, gold plated
Spring	Spring Steel, gold plated
Plunger	Brass, gold plated

Tip Style · Diameter · Plating

D
1.07M Au

5303



How to Order

5303 - D - 0.85 N - Au - 1.07 M
1 2 3 4 5 6

1. Series 2. Tip Style 3. Spring Force 4. Tip Plating 5. Tip Diameter
6. Tip Material (only for Brass)

Series 5305

- Short, compact size
- Board-to-board contacting
- For use in charging units

Mechanical Data	
Center	2.54 mm / 100 mil
Full Travel	1.00 mm
Pre-Loaded Spring Force	0.40 N
Spring Force at Full Travel	1.00 N

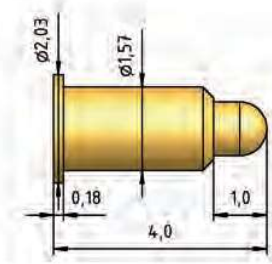
Electrical Data	
Max. Current Rating	1.5 A
Typical Continuity Resistance	≤ 10 mOhm

Materials	
Barrel	Brass, gold plated
Spring	Stainless Steel
Plunger	Brass, gold plated

Tip Style · Diameter · Plating

D
1.02M Au

5305



How to Order

5305 - D - 1.0 N - Au - 1.02 M
1 2 3 4 5 6

1. Series 2. Tip Style 3. Spring Force 4. Tip Plating 5. Tip Diameter
6. Tip Material (only for Brass)

Series 5099

- Short, compact size
- Board-to-board contacting
- For use in charging units

Tip Style · Diameter · Plating

D	D	G	V
1.00C Au	1.30C Au	1.30C Au	1.30C Au

Mechanical Data

Center	3.00 mm / 118 mil
Full Travel	1.20 mm
Working Travel	1.00 mm
Pre-Loaded Spring Force	0.30/ 0.50/ 0.30 N
Spring Force at Working Travel	0.60/ 1.00/ 2.00 N

Electrical Data

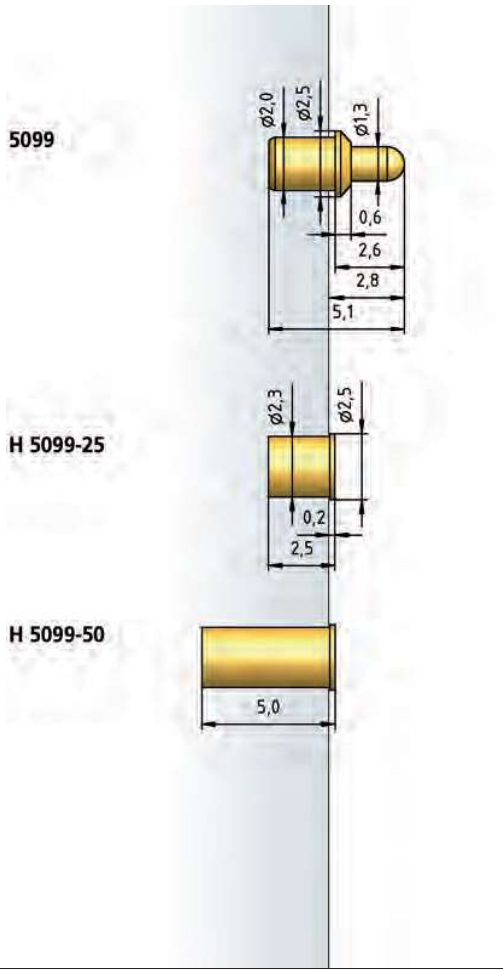
Max. Current Rating	5.0...8.0 A
Typical Continuity Resistance	≤ 10 mOhm

Materials

Barrel	Brass, gold plated
Spring	Spring Steel, gold plated
Plunger	CuBe, gold plated
Receptacle	Brass, gold plated

Recommended Diameter of Drill

with Receptacle	
HP 2361.1 (Trolitax)	2.29 mm
HGW 2372 (Glass filled Material)	2.30 mm
without Receptacle	
HP 2361.1 (Trolitax)	1.99 mm
HGW 2372 (Glass filled Material)	2.00 mm



How to Order

5099 - D - 2.0 N - Au - 1.3 C
1 2 3 4 5 6

1. Series 2. Tip Style 3. Spring Force 4. Tip Plating 5. Tip Diameter
6. Tip Material (only for CuBe)

Series 5099.04

- Short, compact size
- Board-to-board contacting
- For use in charging units

Mechanical Data	
Center	3.00 mm / 118 mil
Full Travel	4.00 mm
Working Travel	3.30 mm
Pre-Loaded Spring Force	0.15/ 0.25 N
Spring Force at Working Travel	0.50/ 2.00 N

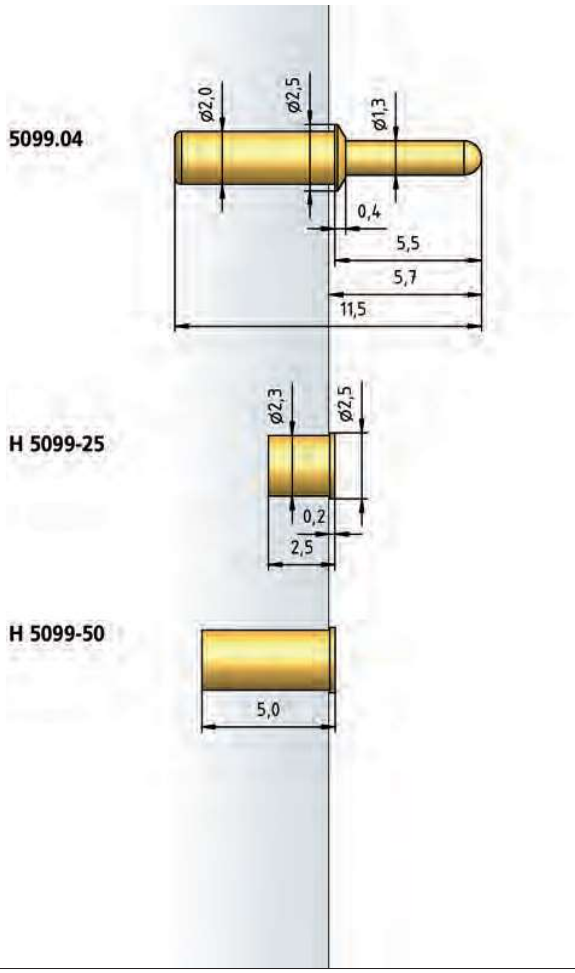
Electrical Data	
Max. Current Rating	5.0...8.0 A
Typical Continuity Resistance	≤ 20 mOhm

Materials	
Barrel	Brass, gold plated
Spring	Spring Steel, gold plated
Plunger	CuBe, gold plated
Receptacle	Brass, gold plated

Recommended Diameter of Drill	
with Receptacle	
HP 2361.1 (Trolitax)	2.29 mm
HGW 2372 (Glass filled Material)	2.30 mm
without Receptacle	
HP 2361.1 (Trolitax)	1.99 mm
HGW 2372 (Glass filled Material)	2.00 mm

Tip Style · Diameter · Plating

D4
1.30C Au



How to Order

5099 .04 - D4 - 2.0 N - Au - 1.3 C

1 2 3 4 5 6 7

1. Series 2. Variant 3. Tip Style 4. Spring Force 5. Tip Plating 6. Tip Diameter 7. Tip Material (only for CuBe)

Series 5110/S

- Short, compact size
- Board-to-board contacting
- For use in charging units

Mechanical Data	
Center	4.00 mm / 160 mil
Full Travel	3.50 mm
Working Travel	2.80 mm
Pre-Loaded Spring Force	0.25/ 0.30/ 0.45/ 0.50/ 1.00 N
Spring Force at Working Travel	0.80/ 1.20/ 1.50/ 2.50/ 3.50 N

Electrical Data	
Max. Current Rating	10.0 A
Typical Continuity Resistance	≤ 10 mOhm

Materials	
Barrel	Brass, gold plated
Spring	Stainless Steel, gold plated
Plunger	CuBe, gold plated
Receptacle	Brass, gold plated

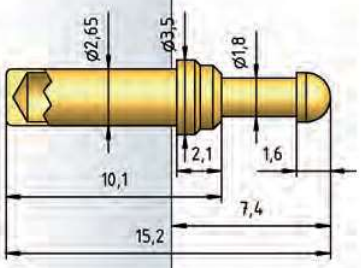
Recommended Diameter of Drill	
HP 2361.1 (Trolitax)	2.64 mm
HGW 2372 (Glass filled Material)	2.65 mm

Tip Style · Diameter · Plating

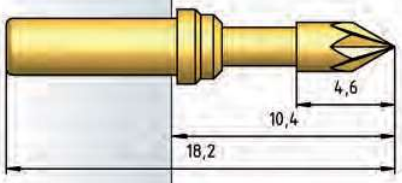
C	D1	D	D	E
2.30C Au 3.50C Au	2.30C Au	2.30C Au	2.03C Au	2.30C Au

F	K2
2.30C Au	2.30C Au

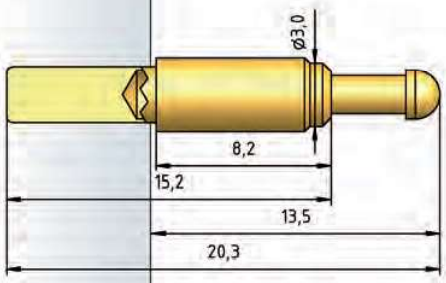
5110/S



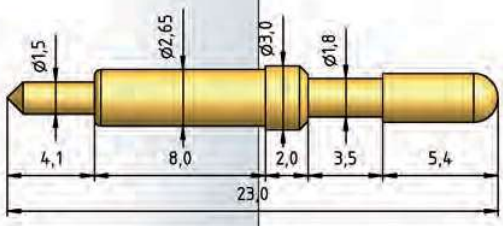
5110/S-K2



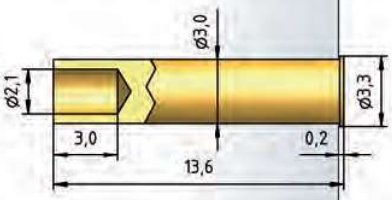
5110/S.02



5110/1-D1



H 5110



How to Order

5110/S - D - 1.5 N - Au - 2.3 C

1 2 3 4 5 6

1. Series 2. Tip Style 3. Spring Force 4. Tip Plating 5. Tip Diameter 6. Tip Material (only for CuBe)

Series 5082

- Sturdy design
- For use in tough conditions
- Spring forces up to 8.0 N

Mechanical Data	
Center	6.50 mm / 256 mil
Full Travel	4.00 mm
Working Travel	3.20 mm
Pre-Loaded Spring Force	0.20/ 0.40/ 1.00/ 0.80/ 1.60 N
Spring Force at Working Travel	0.60/ 1.50/ 3.00/ 4.00/ 8.00 N

Electrical Data	
Max. Current Rating	5.0...8.0 A
Typical Continuity Resistance	≤ 30 mOhm

Materials	
Barrel	Brass, gold plated
Spring	Stainless Steel, gold plated
Plunger	Steel, Brass
Receptacle	Brass, gold plated

Recommended Diameter of Drill	
HP 2361.1 (Trolitax)	5.59...5.60 mm
HGW 2372 (Glass filled Material)	4.97 mm

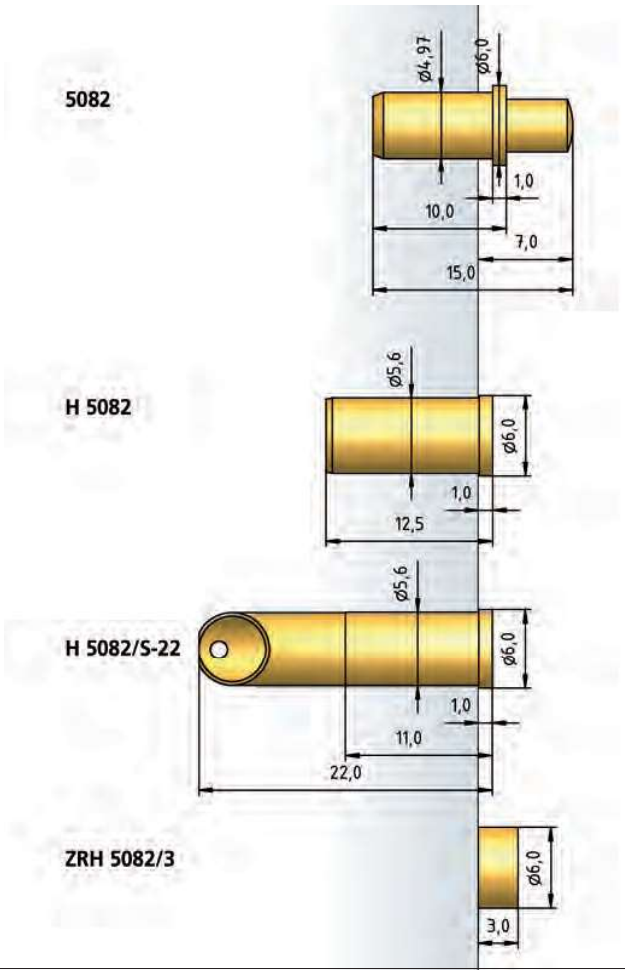
How to Order

5082	-	D	-	3.0 N	-	Au	-	4.0	M
1		2		3		4		5	6

1. Series 2. Tip Style 3. Spring Force 4. Tip Plating 5. Tip Diameter
6. Tip Material (only for Brass)

Tip Style · Diameter · Plating

B1D	C	D	E1D	G
4.00M Au	4.00 Au	4.00M Au	4.00M Au	4.00 Au



NEW

Series 5082.01

- Sturdy design
- For use in tough conditions
- Spring forces up to 8.0 N

Tip Style · Diameter · Plating

B1	C	D	G
4.00 Ni	4.00 Ni	4.00 Ni	4.00 Ni

Mechanical Data

Center	6.50 mm / 256 mil
Full Travel	5.00 mm
Working Travel	4.00 mm
Pre-Loaded Spring Force	0.20/ 0.40/ 1.00/ 1.60 N
Spring Force at Working Travel	0.60/ 1.50/ 3.00/ 8.00 N

Electrical Data

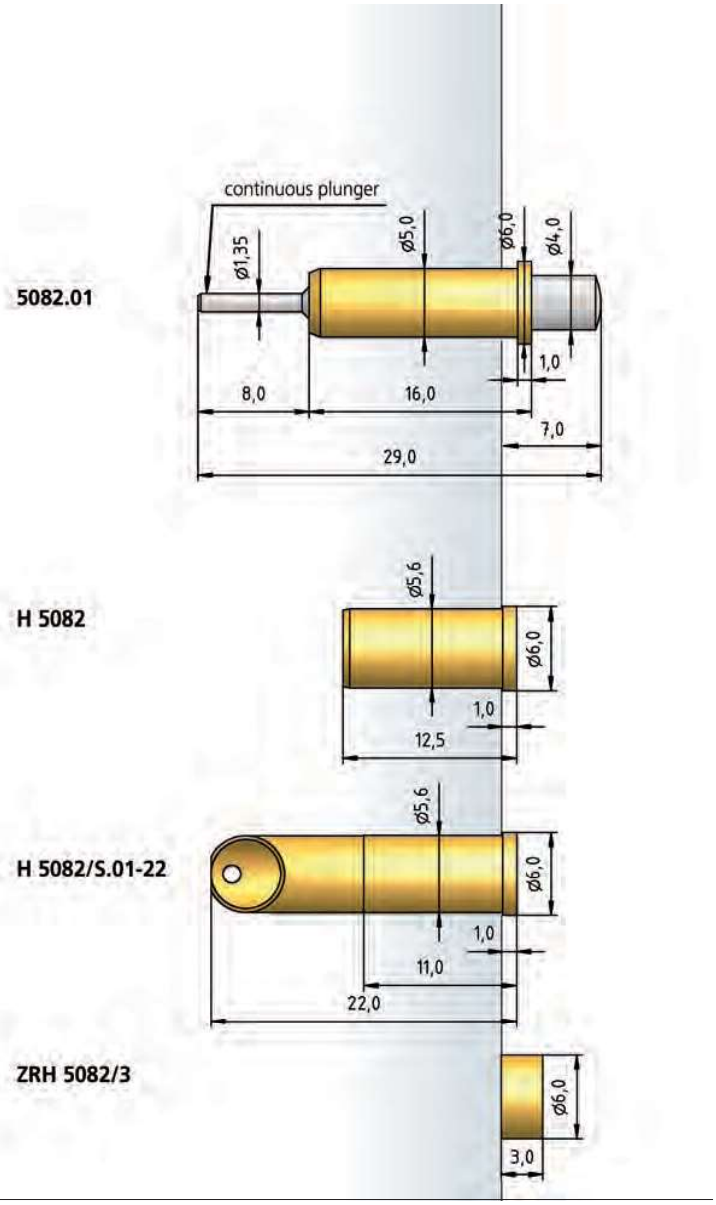
Connector / Receptacle	
Max. Current Rating	5.0...8.0 A
Typical Continuity Resistance	≤ 100 mOhm
Connector / Plunger	
Max. Current Rating	15.0...20.0 A
Typical Continuity Resistance	≤ 10 mOhm

Materials

Barrel	Brass, gold plated
Spring	Stainless Steel
Plunger	Steel

Recommended Diameter of Drill

HP 2361.1 (Trolitax)	5.59...5.60 mm



How to Order

5082.01	-	D	-	3.0 N	-	Ni	-	4.0
1		2		3		4		5

1. Series 2. Tip Style 3. Spring Force 4. Tip Plating 5. Tip Diameter

NEW

Series 5082/L

- Sturdy design
- For use in tough conditions
- Spring forces up to 8.0 N

Mechanical Data

Center	6.50 mm / 256 mil
Full Travel	10.00 mm
Working Travel	8.00 mm
Pre-Loaded Spring Force	0.40/ 1.00/ 3.00 N
Spring Force at Working Travel	1.50/ 3.00/ 8.00 N

Electrical Data

Connector / Receptacle	
Max. Current Rating	5.0...8.0 A
Typical Continuity Resistance	≤ 100 mOhm
Connector / Plunger	
Max. Current Rating	15.0...20.0 A
Typical Continuity Resistance	≤ 10 mOhm

Materials

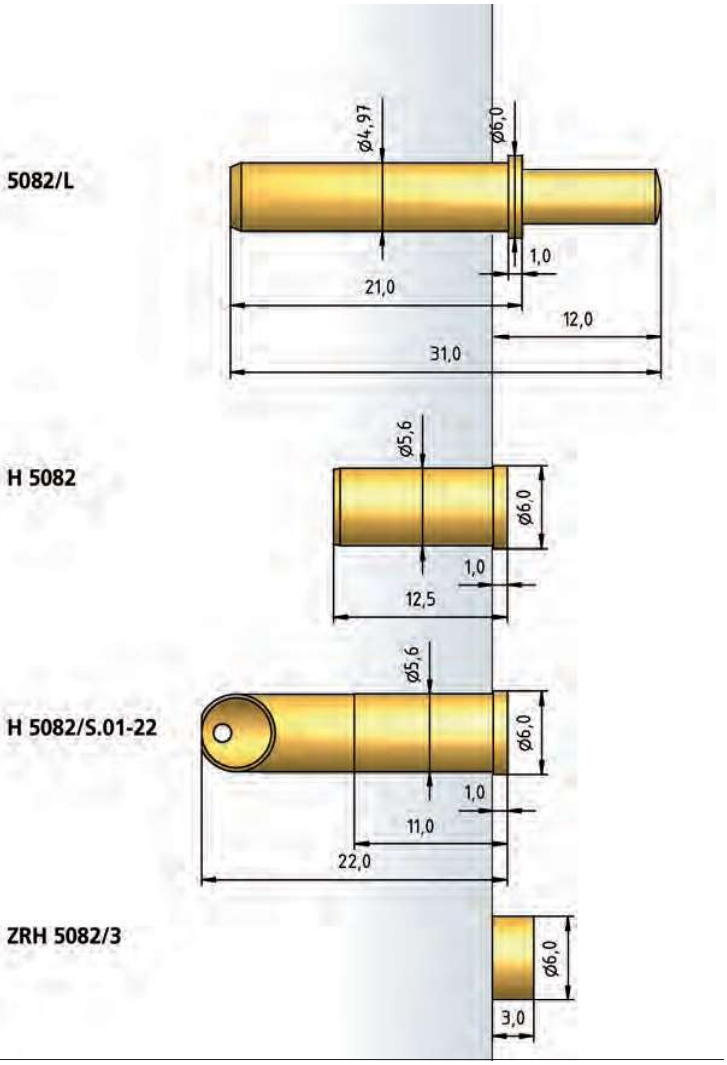
Barrel	Brass, gold plated
Spring	Stainless Steel
Plunger	Steel

Recommended Diameter of Drill

HP 2361.1 (Trolitax)	5.59...5.60 mm

Tip Style · Diameter · Plating

D
4.00C Au



How to Order

5082/L	-	D	-	8.0 N	-	Au	-	4.0	C
1		2		3		4		5	6

1. Series 2. Tip Style 3. Spring Force 4. Tip Plating 5. Tip Diameter 6. Tip Material (only for CuBe)