

Series	Center	Page
3035	75 mil / 1.91 mm	105
3020/2	100 mil / 2.54 mm	106
3024	100 mil / 2.54 mm	107
3026/2W	100 mil / 2.54 mm	108
3030	100 mil / 2.54 mm	109
3003	125 mil / 3.18 mm	110
3010/2 • 3010/10	160 mil / 4.00 mm	111
3010/2F	160 mil / 4.00 mm	112
3010/2W	160 mil / 4.00 mm	113
3010/2V	160 mil / 4.00 mm	114

Switching Test Probes without Thread

Switching Test Probes are primarily used for component checks. To do this, the electric circuit used for signal transfer opens or closes according to a defined switching travel. For operation, a connection on the receptacle and on the connector pin is normally required. For maintenance work, the use of easy replacement receptacles can save a lot of time because there is no need for rewiring of the connector pin (see page 116). Thanks to our high-precision manufacturing processes, centers of from 4.00 mm to 1.91 mm can be achieved.



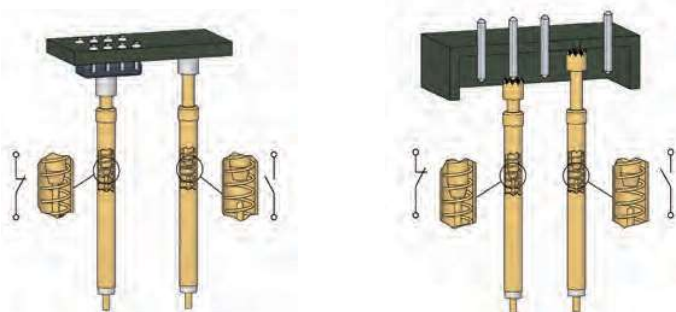
Component Check with Switching Test Probes

As a rule, PTR Switching Test Probes operate on the "closer principle". Switching Test Probes can be seen as "axial micro-switches" which, according to a defined switching travel, create an electrically conducting connection between the inner conductor and the outer probe of the Switching Test Probe. "Opener" contacts (NV) are also available for the 3010/2F and 3011/2FGS series (see page 116).

In addition to a large number of metal tips, PTR also offers versions with insulated tips. These can be supplied as a full-plastic tip and, for improved wear resistance, as a metal tip insulated against the plunger. PTR also offers a so-called "neutral Switching Test Probe" in the version with a plastic tip and hard-wearing protective metal ring.

Applications / Features:

- ▶ Check on presence of components or connectors, principally for the cable test, e.g. to check secondary locking
- ▶ Potential-free contacting by means of the above-mentioned insulating tip versions



Series 3035

- Switching test probe for the cable harness test
- Plug-in system
- Receptacle diameter only 1.41 mm (press ring)
- Soldering temperature max 300°C
- Switching test probe with standard travel for small center

Tip Style · Diameter · Plating



C	F
0.80C Au	0.80C Au

Mechanical Data

Center	1.91 mm / 75 mil
Full Travel	5.00 mm
Working Travel	4.00 mm
Switching Travel	2.60 mm
Pre-Loaded Spring Force	0.30 N
Spring Force at Working Travel	2.00 N
Spring Force at Switching Travel	1.10 N

Electrical Data

Max. Current Rating	1.0 A
Typical Continuity Resistance	≤ 20 mOhm
Typical Insulating Voltage	1000 V

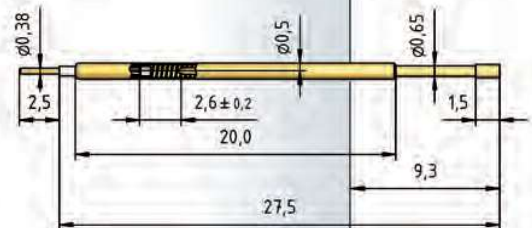
Materials

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

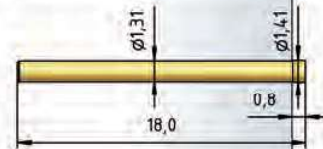
Recommended Diameter of Drill

HP 2361.1 (Trolitax)	1.30 mm
with pressed-in Ring	1.36 mm
HGW 2372 (Glass filled Material)	1.32 mm
with pressed-in Ring	1.37 mm

3035



H 3035



How to Order

3035 - F - 2.0 N - Au - 0.8 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 3020/2

- Switching test probe for the cable harness test
- Plug-in and threaded type
- Monitoring of components or periphery
- Switching travel 2.6 mm (4.0 mm on request)
- Soldering temperature max 300°C

Mechanical Data

Center	2.54 mm / 100 mil
Full Travel	5.30 mm
Working Travel	4.00 mm
Switching Travel	2.60 mm
Pre-Loaded Spring Force	0.15/ 0.40/ 0.50/ 1.70 N
Spring Force at Working Travel	0.80/ 1.50/ 3.00/ 6.50 N
Spring Force at Switching Travel	0.25/ 0.80/ 1.80/ 4.50 N

Electrical Data

Receptacle / Plunger

Max. Current Rating	3.0 A
Typical Continuity Resistance	≤ 20 mOhm

Pin / Plunger

Max. Current Rating	1.0 A
Typical Continuity Resistance	≤ 50 mOhm
Typical Insulating Voltage	1000 V

Materials

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

Recommended Diameter of Drill

HP 2361.1 (Trolitax)	2.00 mm
HGW 2372 (Glass filled Material)	2.01 mm

How to Order

3020/ 2 - F - 1.5 N - Au - 1.5
 1 2 3 4 5 6

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

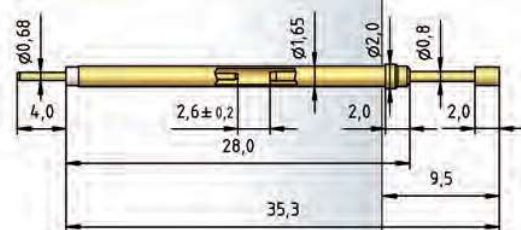
Tip Style · Diameter · Plating

				
A	C	C3	F	F
1.50 Au	1.30 Au 1.50 Au 3.00 Au	1.50 Au	0.80 Au	1.00 Au 1.30 Au 1.50 Au



F1
1.50 HTK

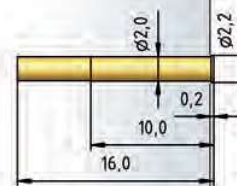
3020/2



3020/2-C3



H 3020



H 3020/S-26



Series 3024

- Switching test probe for the cable harness test
- Easy-replacement system
- Replacement without soldering
- Short design (24.5 mm)
- Soldering temperature max 300°C
- FS1 insulated metal cap

Tip Style · Diameter · Plating

C	D	F	F1	FS1
1.80C Au	1.00C Au	1.00C Au	1.80 HTK	2.00C Ni/S

Mechanical Data

Center	2.54 mm / 100 mil
Full Travel	5.00 mm
Working Travel	4.00 mm
Switching Travel	2.60 mm
Pre-Loaded Spring Force	0.30/ 0.50/ 0.50 N
Spring Force at Working Travel	1.35/ 2.00/ 2.50 N
Spring Force at Switching Travel	1.00/ 1.50/ 1.80 N

Electrical Data

Receptacle / Plunger

Max. Current Rating	3.0 A
Typical Continuity Resistance	≤ 20 mOhm

Pin / Plunger

Max. Current Rating	1.0 A
Typical Continuity Resistance	≤ 50 mOhm
Typical Insulating Voltage	1000 V

Materials

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

Recommended Diameter of Drill

HP 2361.1 (Trolitax)	2.15 mm
HGW 2372 (Glass filled Material)	2.16 mm

3024



How to Order

3024 - **C** - **2.0 N** - **Au** - **1.8 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 3026/2W

- Switching test probe for the cable harness test
- Plug-in and threaded type
- Monitoring of components or periphery
- Soldering temperature max 300°C

Mechanical Data

Center	2.54 mm / 100 mil
Full Travel	5.00 mm
Working Travel	4.00 mm
Switching Travel	1.50 mm
Pre-Loaded Spring Force	0.15/ 0.40/ 0.50/ 1.70 N
Spring Force at Working Travel	0.80/ 1.50/ 3.00/ 6.50 N
Spring Force at Switching Travel	0.20/ 0.60/ 1.25/ 3.30 N

Electrical Data

Receptacle / Plunger

Max. Current Rating	3.0 A
Typical Continuity Resistance	≤ 20 mOhm

Pin / Plunger

Max. Current Rating	1.0 A
Typical Continuity Resistance	≤ 50 mOhm
Typical Insulating Voltage	1000 V

Materials

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

Recommended Diameter of Drill

HP 2361.1 (Trolitax)	2.00 mm
HGW 2372 (Glass filled Material)	2.01 mm

Tip Style · Diameter · Plating

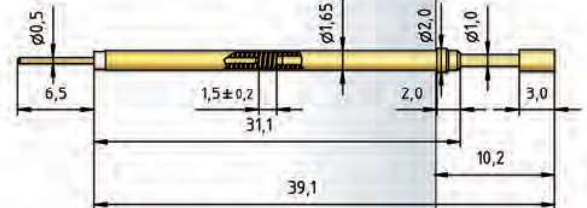


A	A6	C	D	F
1.80 Au	1.80 Au	1.80 Au	0.64 Au	1.00 Au
			0.80 Au	1.80 Au
			1.00 Au	

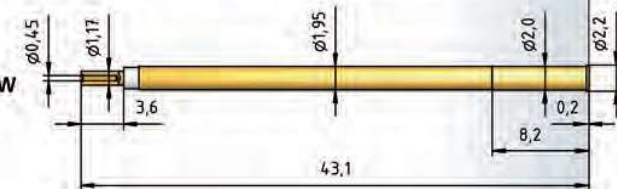


F1
1.80 HTK

3026/2W



H 3026/W



How to Order

3026/ 2 W - F - 1.5 N - Au - 1.8
 1 2 3 4 5 6 7

1. Series 2. Collar Height 3. Interchangeable without Soldering 4. Tip Style
 5. Spring Force 6. Tip Plating 7. Tip Diameter

Series 3030

- Switching test probe for the cable harness test
- Plug-in system
- Receptacle diameter only 1.83 mm (press ring)
- Soldering temperature max 300°C
- Switching test probe with standard travel for small center

Mechanical Data

Center	2.54 mm / 100 mil
Full Travel	6.30 (5.80 by-..L) mm
Working Travel	5.00 mm
Switching Travel	4.00 mm
Pre-Loaded Spring Force	0.25/ 0.25/ 0.30 N
Spring Force at Working Travel	1.00/ 1.50/ 2.00 N
Spring Force at Switching Travel	0.60/ 0.60/ 1.00 N

Electrical Data

Max. Current Rating	1.0 A
Typical Continuity Resistance	≤ 50 mOhm
Typical Insulating Voltage	1000 V

Materials

Barrel	Bronze, gold plated
Spring	Spring Steel, gold plated
Plunger	Steel
Receptacle	Bronze, gold plated

Recommended Diameter of Drill

HP 2361.1 (Trolitax)	1.65 mm
with pressed-in Ring	1.75 mm
HGW 2372 (Glass filled Material)	1.67 mm
with pressed-in Ring	1.76 mm

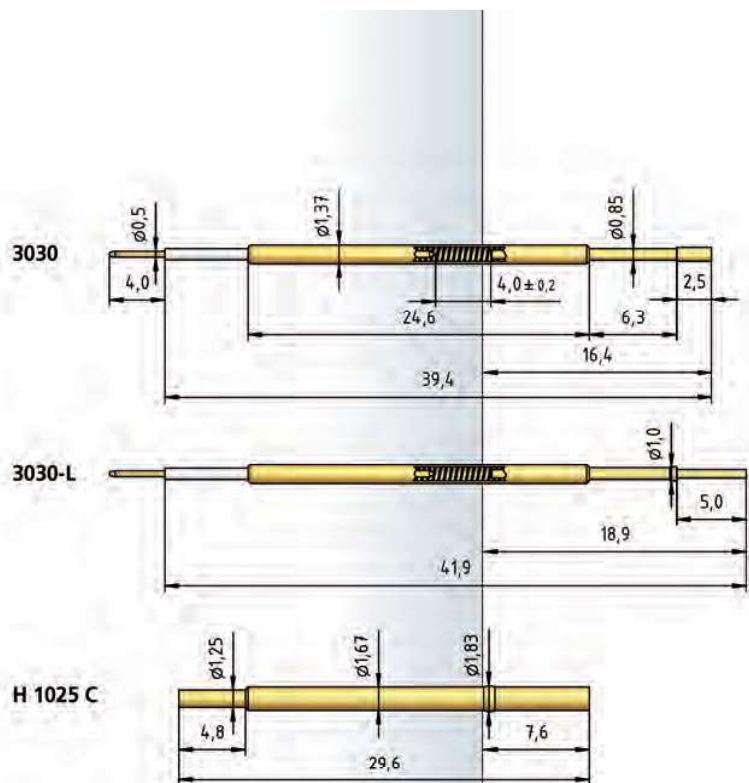
Tip Style · Diameter · Plating



C	D	D1	DL	F
1.00 Au	0.65 Au	0.65 Au	0.65 Au	1.00 Au
1.30 Au				



FL
0.70 Au



How to Order

3030 - **C** - **2.0 N** - **Au** - **1.0/ 0.5x 4.0**

1 2 3 4 5 6 7

1. Series 2. Tip Style 3. Spring Force 4. Tip Plating 5. Tip Diameter
6. Connector Pin Diameter 7. Connector Pin Length

Series 3003

- Use without receptacle, collar on housing
- Switching travel 0.65 mm
- Soldering temperature max 300°C

Tip Style · Diameter · Plating



F

1.02C Au

Mechanical Data

Center	3.18 mm / 125 mil
Full Travel	7.5 mm
Working Travel	5.00 mm
Switching Travel	0.65 mm
Pre-Loaded Spring Force	0.40 N
Spring Force at Working Travel	1.15 N
Spring Force at Switching Travel	0.55 N

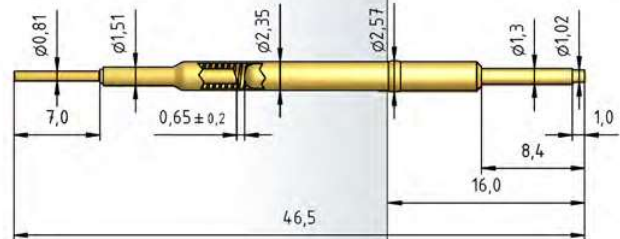
Electrical Data

Max. Current Rating	4.5 A
Typical Continuity Resistance	≤ 15 mOhm
Typical Insulating Voltage	1000 V

Materials

Barrel	Bronze, gold plated
Spring	Steel Wire, gold plated
Plunger	CuBe, gold plated
Connect Pin	CuBe, gold plated

3003



How to Order

3003 - F - 1.15 N - Au - 1.02 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 3010/2 • 3010/10

- Switching test probe for the cable harness test
- Plug-in and threaded type
- Switching travel 1.7 mm (4.0 mm on request)
- Soldering temperature max 300°C

Mechanical Data

Center	4.00 mm / 160 mil
Full Travel	5.00 mm
Working Travel	4.00 mm
Switching Travel	1.70 mm
Pre-Loaded Spring Force	0.12/ 0.30/ 1.80/ 1.70/ 2.70/ 5.00 N
Spring Force at Working Travel	1.25/ 2.30/ 7.00/ 9.00/ 10.00/ 13.00 N
Spring Force at Switching Travel	0.18/ 0.70/ 3.60/ 4.40/ 5.40/ 8.00 N

Electrical Data

Receptacle / Plunger

Max. Current Rating	5.0 A
Typical Continuity Resistance	≤ 15 mOhm

Pin / Plunger

Max. Current Rating	1.0 A
Typical Continuity Resistance	≤ 50 mOhm
Typical Insulating Voltage	1000 V

Materials

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

Recommended Diameter of Drill

HP 2361.1 (Trolitax)	3.00 mm
HWG 2372 (Glass filled Material)	3.01 mm

Connector Pin X / mm	Connector Pin Length Y / mm
0.5	6.0
1.0	2.5
1.0	4.0

How to Order

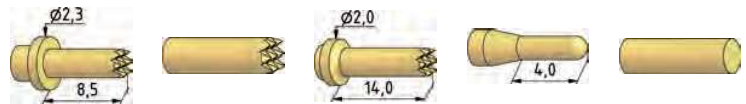
3010/ 2 - A - 2.3 N - Au - 2.3 /1.0x 4.0
 1 2 3 4 5 6 7 8

1. Series
2. Collar Height
3. Tip Style
4. Spring Force
5. Tip Plating
6. Tip Diameter
7. Connector Pin Diameter
8. Connector Pin Length

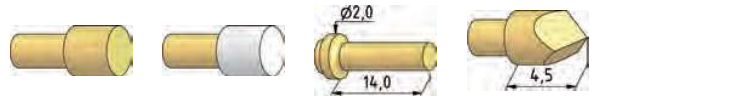
Tip Style · Diameter · Plating



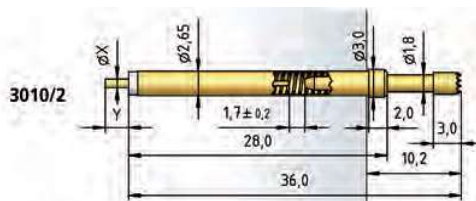
A	C	C	CL	C1
2.30 Au	1.80 Au	2.30 Au 3.00 Au 4.00 Au	2.30 Au	1.00 Au



CL1	CL2	CL3	D6	F
1.00 Au	1.80 Au	1.00 Au	1.00 Au	1.80 Au



F	F1	FL3	H2
2.00 Au 2.30 Au	2.30 HTK 3.00 HTK 4.00 HTK 5.00 HTK	1.00 Au	2.60 Au



Tip style	E	L
CL, CL1	16,7	42,5
CL2	22,2	48,0
CL3, FL3	22,9	48,7



Tip style	E	L
CL, CL1	24,7	42,5
CL2	30,2	48,0
CL3, FL3	30,9	48,7



Series 3010/2F

- Switching test probe for the cable harness test
- Plug-in system
- Switching test probe „Opener“ type
- Soldering temperature max 300°C

Mechanical Data

Center	4.00 mm / 160 mil
Full Travel	5.00 mm
Working Travel	4.00 mm
Switching Travel	1.70 mm
Pre-Loaded Spring Force	0.40 N
Spring Force at Working Travel	2.30 N
Spring Force at Switching Travel	1.00 N

Electrical Data

Receptacle / Plunger

Max. Current Rating	5.0 A
Typical Continuity Resistance	≤ 15 mOhm

Pin / Plunger

Max. Current Rating	1.0 A
Typical Continuity Resistance	≤ 50 mOhm
Typical Insulating Voltage	1000 V

Materials

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

Recommended Diameter of Drill

HP 2361.1 (Trolitax)	3.00 mm
HGW 2372 (Glass filled Material)	3.01 mm

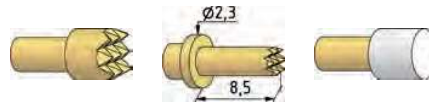
Connector Pin X / mm	Connector Pin Length Y / mm
0.5	6.0
1.0	2.5
1.0	4.0

How to Order

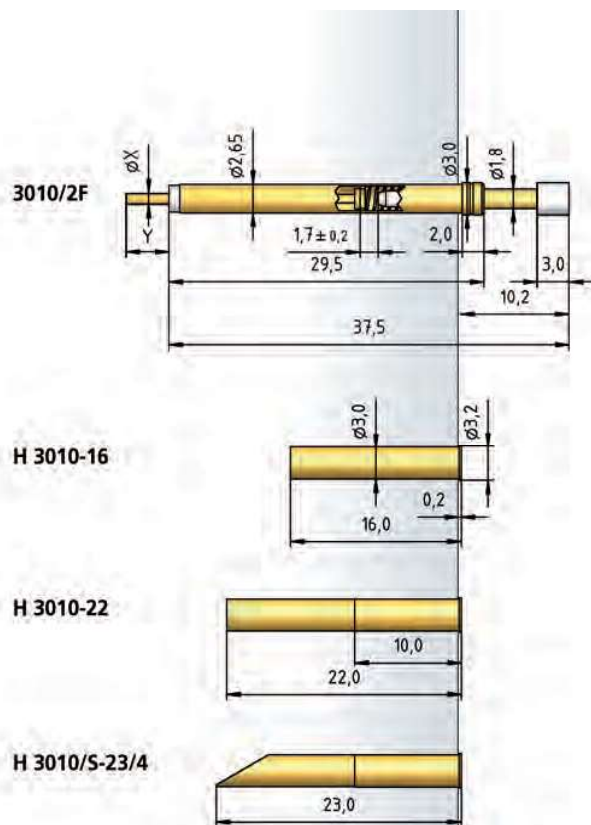
3010/ 2 F - C - 2.3 N - Au - 2.3/ 1.0x 4.0
 1 2 3 4 5 6 7 8 9

1. Series 2. Collar Height 3. Type Opener 4. Tip Style 5. Spring Force 6. Tip Plating 7. Tip Diameter 8. Connector Pin Diameter 9. Connector Pin Length

Tip Style · Diameter · Plating



C	CL1	F1
2.30 Au	1.00 Au	3.00 HTK
		4.00 HTK
		5.00 HTK



Series 3010/2W

- Switching test probe for the cable harness test
- Plug-in and threaded type
- Switching travel 1.7 mm (4.0 mm on request)
- Soldering temperature max 300°C

Mechanical Data

Center	4.00 mm / 160 mil
Full Travel	5.00 mm
Working Travel	4.00 mm
Switching Travel	1.70 mm
Pre-Loaded Spring Force	0.12/ 0.25/ 0.30/ 0.40/ 0.60/ 1.80/ 1.40/ 1.70/ 2.00/ 2.00/ 5.00/ 4.00 N
Spring Force at Working Travel	1.25/ 1.75/ 2.30/ 2.80/ 4.00/ 7.00/ 7.50/ 9.00/ 9.50/ 10.50/ 13.00/ 13.50N
Spring Force at Switching Travel	0.20/ 0.45/ 0.75/ 1.00/ 1.60/ 3.60/ 3.60/ 4.40/ 4.80/ 5.20/ 8.00/ 7.60 N

Electrical Data

Receptacle / Plunger

Max. Current Rating	5.0 A
Typical Continuity Resistance	≤ 15 mOhm

Pin / Plunger

Max. Current Rating	1.0 A
Typical Continuity Resistance	≤ 50 mOhm
Typical Insulating Voltage	1000 V

Materials

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

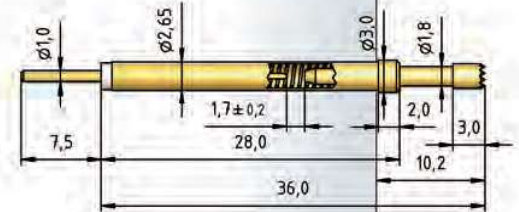
Recommended Diameter of Drill

HP 2361.1 (Trolitax)	3.00 mm
HGW 2372 (Glass filled Material)	3.01 mm

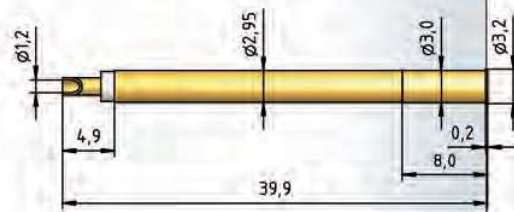
Tip Style · Diameter · Plating

A	C	C	CL	C1
2.30 Au	1.80 Au	2.30 Au 3.00 Au 4.00 Au	2.30 Au	1.00 Au
CL1	CL2	CL3	D6	F
1.00 Au	1.80 Au	1.00 Au	1.00 Au	1.80 Au
F	F1	FL3	H2	
2.00 Au 2.30 Au	2.30 HTK 3.00 HTK 4.00 HTK 5.00 HTK	1.00 Au	2.60 Au	

3010/2W



H 3010/W



How to Order

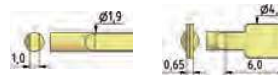
3010/ 2 W - A - 2.3 N - Au - 2.3/ 1.0x 7.5
 1 2 3 4 5 6 7 8 9

1. Series
2. Collar Height
3. Interchangeable without Soldering
4. Tip Style
5. Spring Force
6. Tip Plating
7. Tip Diameter
8. Connector Pin Diameter
9. Connector Pin Length

Series 3010/2V

- Switching test probe for the cable harness test
- Plug-in system
- Non-rotating variant
- Soldering temperature max 300°C

Tip Style · Diameter · Plating



Y	Y5
1.90 x 1.00 Au	4.00 x 0.65 Au

Mechanical Data

Center	4.00 mm / 160 mil
Full Travel	5.00 mm
Working Travel	4.00 mm
Switching Travel	1.70 mm
Pre-Loaded Spring Force	0.12/ 0.30/ 1.80/ 1.70/ 2.70/ 5.00 N
Spring Force at Working Travel	1.25/ 2.30/ 7.00/ 9.00/ 10.00 N
Spring Force at Switching Travel	0.18/ 0.70/ 3.60/ 4.40/ 5.40/ 8.00 N

Electrical Data

Receptacle / Plunger

Max. Current Rating	5.0 A
Typical Continuity Resistance	≤ 15 mOhm

Pin / Plunger

Max. Current Rating	1.0 A
Typical Continuity Resistance	≤ 50 mOhm
Typical Insulating Voltage	1000 V

Materials

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

Recommended Diameter of Drill

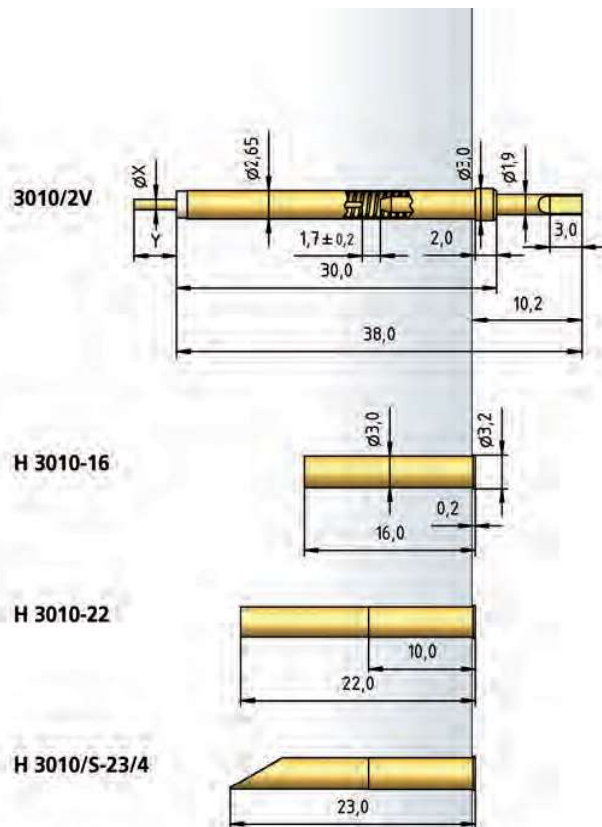
HP 2361.1 (Trolitax)	3.00 mm
HGW 2372 (Glass filled Material)	3.01 mm

Connector Pin X / mm	Connector Pin Length Y / mm
0.5	6.0
1.0	2.5
1.0	4.0

How to Order

3010/ 2 V - Y - 2.3 N - Au - 1.9x 1.0/ 1.0x 4.0
 1 2 3 4 5 6 7 8 9 10

1. Series
2. Collar Height
3. Non-rotating Design
4. Tip Style
5. Spring Force
6. Tip Plating
7. Tip Diameter
8. Tip Thickness
9. Connector Pin Diameter
10. Connector Pin Length



The first part of the paper discusses the historical context of the research, tracing the evolution of the field from its early beginnings to the present day. It highlights the contributions of key figures and the development of theoretical frameworks that have shaped the discipline. The second part of the paper presents a detailed analysis of the empirical data, examining the patterns and trends that have emerged over time. This analysis is supported by a range of statistical techniques and theoretical models, which are used to test the hypotheses and explore the underlying mechanisms of the phenomena being studied. The final part of the paper discusses the implications of the findings for practice and policy, and offers suggestions for further research in the area.

Series	Center	Page
3020/2G	100 mil / 2.54 mm	117
3020/2GW5	100 mil / 2.54 mm	118
3023/2GS	100 mil / 2.54 mm	119
3024/2G	100 mil / 2.54 mm	120
3030/GW3	100 mil / 2.54 mm	121
3011/2FGS	138 mil / 3.50 mm	122
3010/2G • 3010/10G	160 mil / 4.00 mm	123
3010/2GW(5)	160 mil / 4.00 mm	124
3011/2GS	160 mil / 4.00 mm	125
3012/2GS	160 mil / 4.00 mm	126
3012/2GS-FS1 • FLS1	160 mil / 4.00 mm	127
3014/2G	160 mil / 4.00 mm	128
3015/G	300 mil / 7.50 mm	129

Switching Test Probes with Thread

Switching Test Probes are available in various designs, from simple plug-in types (see page 104) to threaded types to easy-replacement systems.

Threaded Switching Test Probes are used primarily for cable testing and when a later change to the installation height is necessary (up to 5.0 mm). In these cases, the thread prevents the successive twisting of the Test Probe out of the receptacle. In each case, the electrical connection takes place via a connection to the connector pin of the Switching Test Probe and a connection to the receptacle.

Series 3014 and 3024, which have an overall length of only 24.5 mm, are especially compact. As an alternative, both series are available with the easy-replacement system.

Series 3015, with its ball-shaped design and a working travel of only 0.8 mm, is especially suitable for applications in which horizontal contacting is necessary.



Switching Test Probes with Easy-Replacement System

The PTR easy-replacement system for switching test probes makes it possible to replace the test probe without releasing the wiring. In this case, the wiring takes place directly on the insulated connection piece of the easy-replacement threaded receptacle which remains in the test module during replacement of the test probe.

The test probe and receptacle are fitted with a matching sprung plug-in system which creates secure, electrical contacting. At the same time, this makes possible faster replacement of the test probe, which contributes to a reduction in servicing times.



Series 3020/2G

- Switching test probe for the cable harness test
- Plug-in and threaded type
- Monitoring of components or periphery
- Switching travel 2.6 mm (4.0 mm on request)
- Soldering temperature max 300°C

Mechanical Data

Center	2.54 mm / 100 mil
Full Travel	5.30 mm
Working Travel	4.00 mm
Switching Travel	2.60 mm
Pre-Loaded Spring Force	0.15/ 0.40/ 0.50/ 1.70 N
Spring Force at Working Travel	0.80/ 1.50/ 3.00/ 6.50 N
Spring Force at Switching Travel	0.25/ 0.80/ 1.80/ 4.50 N

Electrical Data

Receptacle / Plunger

Max. Current Rating	3.0 A
Typical Continuity Resistance	≤ 20 mOhm

Pin / Plunger

Max. Current Rating	1.0 A
Typical Continuity Resistance	≤ 50 mOhm
Typical Insulating Voltage	1000 V

Materials

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

Recommended Diameter of Drill

HP 2361.1 (Trolitax)	2.15 mm
HGW 2372 (Glass filled Material)	2.16 mm

Tip Style · Diameter · Plating



A	C	C3	F	F
1.50 Au	1.30 Au	1.50 Au	0.80 Au	1.00 Au
	1.50 Au			1.30 Au
	3.00 Au			1.50 Au



F1

1.50 HTK

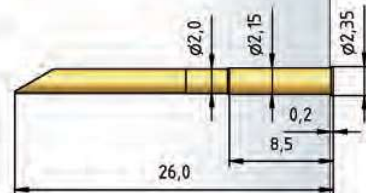
3020/2G



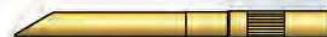
3020/2G-C3



H 3020/GS-26



H 3020/GRS-26



How to Order

3020 / 2 G - F - 1.5 N - Au - 1.5

1 2 3 4 5 6 7

1. Series 2. Collar Height 3. Threaded Design 4. Tip Style 5. Spring Force
6. Tip Plating 7. Tip Diameter

Series 3020/2GW5

- Switching test probe for the cable harness test
- Threaded type
- Switching travel 2.6 mm (4.0 mm on request)
- Soldering temperature max 300°C

Mechanical Data

Center	2.54 mm / 100 mil
Full Travel	5.30 mm
Working Travel	4.00 mm
Switching Travel	2.60 mm
Pre-Loaded Spring Force	0.15/ 0.40/ 0.50/ 1.70 N
Spring Force at Working Travel	0.80/ 1.50/ 3.00/ 6.50 N
Spring Force at Switching Travel	0.25/ 0.80/ 1.80/ 4.50 N

Electrical Data

Receptacle / Plunger

Max. Current Rating	3.0 A
Typical Continuity Resistance	≤ 20 mOhm

Pin / Plunger

Max. Current Rating	1.0 A
Typical Continuity Resistance	≤ 50 mOhm
Typical Insulating Voltage	1000 V

Materials

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

Recommended Diameter of Drill

HP 2361.1 (Trolitax)	2.15 mm
HGW 2372 (Glass filled Material)	2.16 mm

Tip Style · Diameter · Plating



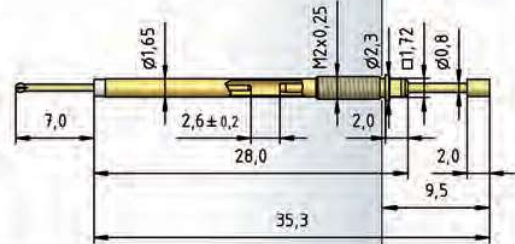
A	C	C3	F	F
1.50 Au	1.30 Au	1.50 Au	0.80 Au	1.00 Au
	1.50 Au			1.30 Au
	3.00 Au			1.50 Au



F1

1.50 HTK

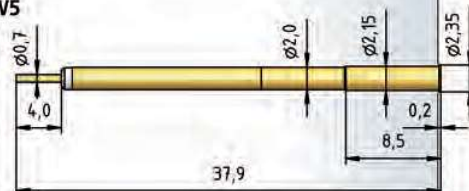
3020/2GW5



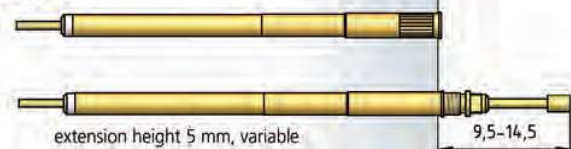
3020/2GW5-C3



H 3020/GW5



H 3020/GWR5



How to Order

3020/ 2 G W 5 - F - 1.5 N - Au - 1.5
 1 2 3 4 5 6 7 8 9

1. Series
2. Collar Height
3. Threaded Design
4. Interchangeable without Soldering
5. Adjustment Area of the Extension Height
6. Tip Style
7. Spring Force
8. Tip Plating
9. Tip Diameter

Series 3023/2GS

- Switching test probe for the cable harness test
- Threaded type
- Easy-replacement system
- Replacement without soldering
- Soldering temperature max 300°C

Mechanical Data

Center	2.54 mm / 100 mil
Full Travel	5.00 mm
Working Travel	4.00 mm
Switching Travel	1.50 mm
Pre-Loaded Spring Force	0.12/ 0.30/ 0.40/ 0.80/ 0.80/ 1.40 N
Spring Force at Working Travel	0.85/ 1.35/ 2.00/ 3.00/ 3.50/ 6.50 N
Spring Force at Switching Travel	0.20/ 0.50/ 0.80/ 1.45/ 1.60/ 3.10 N

Electrical Data

Receptacle / Plunger

Max. Current Rating	3.0 A
Typical Continuity Resistance	≤ 20 mOhm

Pin / Plunger

Max. Current Rating	1.0 A
Typical Continuity Resistance	≤ 50 mOhm
Typical Insulating Voltage	1000 V

Materials

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

Recommended Diameter of Drill

HP 2361.1 (Trolitax)	2.00 mm
HGW 2372 (Glass filled Material)	2.01 mm

How to Order

3023/ 2 G S - F - 3.5 N - Au - 1.8
 1 2 3 4 5 6 7 8

1. Series
2. Collar Height
3. Threaded Design
4. Plug-in Connector
5. Tip Style
6. Spring Force
7. Tip Plating
8. Tip Diameter

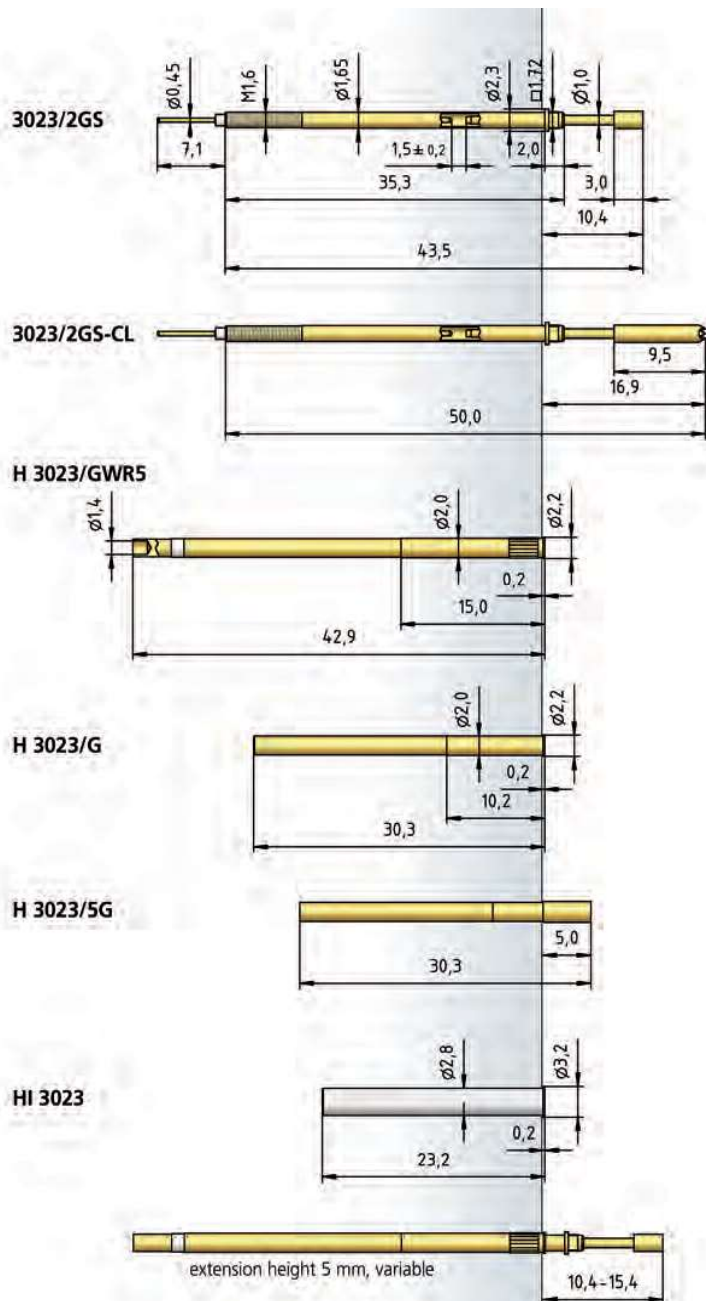
Tip Style · Diameter · Plating



A	C	CL	D	DL
1.80 Au	1.30 Au	1.00 Au	1.00 Au	1.00 Au
	1.50 Au	1.40 Au		
	1.80 Au	1.80 Au		
	2.00 Au			
	2.30 Au			



D1	F	F	F1	FL
0.64 Au	0.64 Au	1.80 Au	1.80 HTK	1.00 Au
	0.70 Au	3.00 Au	2.30 HTK	
	0.80 Au			
	1.00 Au			



Series 3024/2G

- Switching test probe for the cable harness test
- Threaded type
- Easy-replacement system
- Replacement without soldering
- Short design (24.5 mm)
- Soldering temperature max 300°C
- FS1 insulated metal cap

Tip Style · Diameter · Plating

C	D	F	F1	FS1
1.80C Au	1.00C Au	1.00C Au	1.80 HTK	2.00C Ni/S

Mechanical Data

Center	2.54 mm / 100 mil
Full Travel	5.00 mm
Working Travel	4.00 mm
Switching Travel	2.60 mm
Pre-Loaded Spring Force	0.30/ 0.50/ 0.50 N
Spring Force at Working Travel	1.35/ 2.00/ 2.50 N
Spring Force at Switching Travel	1.00/ 1.50/ 1.80 N

Electrical Data

Receptacle / Plunger

Max. Current Rating	3.0 A
Typical Continuity Resistance	≤ 20 mOhm

Pin / Plunger

Max. Current Rating	1.0 A
Typical Continuity Resistance	≤ 50 mOhm
Typical Insulating Voltage	1000 V

Materials

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

Recommended Diameter of Drill

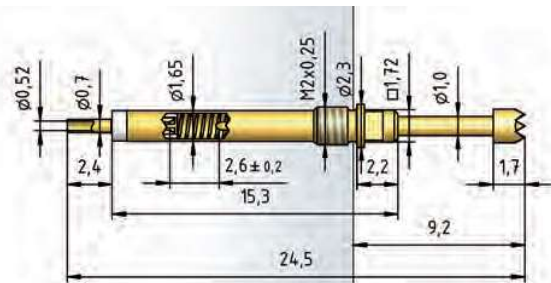
HP 2361.1 (Trolitax)	2.15 mm
HGW 2372 (Glass filled Material)	2.16 mm

How to Order

3024/ 2 G - C - 2.0 N - Au - 1.8 C
 1 2 3 4 5 6 7 8

1. Series
2. Collar Height
3. Threaded Design
4. Tip Style
5. Spring Force
6. Tip Plating
7. Tip Diameter
8. Tip Material (only for CuBe)

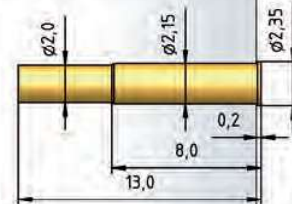
3024/2G



3024/2G-FS1



H 3024/G



H 3024/GW



Series 3030/GW3

- Switching test probe for the cable harness test
- Threaded type
- Easy-replacement system
- Replacement without soldering
- Receptacle diameter only 2.00 mm

Mechanical Data

Center	2.54 mm / 100 mil
Full Travel	6.30 mm
Working Travel	5.00 mm
Switching Travel	4.00 mm
Pre-Loaded Spring Force	0.30 N
Spring Force at Working Travel	2.00 N
Spring Force at Switching Travel	1.00 N

Electrical Data

Max. Current Rating	1.0 A
Typical Continuity Resistance	≤ 50 mOhm
Typical Insulating Voltage	1000 V

Materials

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

Recommended Diameter of Drill

HP 2361.1 (Trolitax)	1.65 mm
with pressed-in Ring	1.75 mm
HGW 2372 (Glass filled Material)	1.67 mm
with pressed-in Ring	1.67 mm

Tip Style · Diameter · Plating

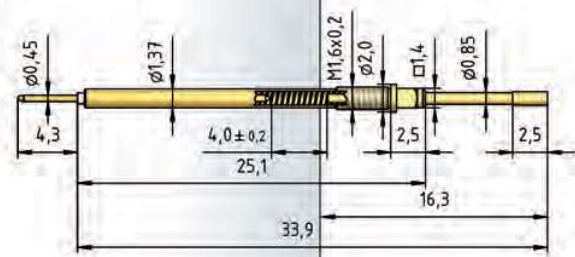


C	D	D1	DL	F
1.00 Au	0.65 Au	0.65 Au	0.65 Au	1.00 Au
1.30 Au				



FL
0.70 Au

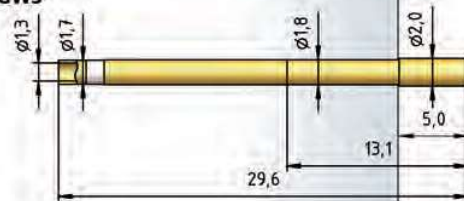
3030/GW3



3030/GW3...-L



H 3030/GW3



How to Order

3030/ G W 3 - F - 2.0 N - Au - 1.0
 1 2 3 4 5 6 7 8

1. Series
2. Threaded Design
3. Interchangeable without Soldering
4. Adjustment Area of the Extension Height
5. Tip Style
6. Spring Force
7. Tip Plating
8. Tip Diameter

Series 3011/2FGS

- Switching test probe for the cable harness test
- Plug-in system
- Switching test probe „Opener“ type
- Soldering temperature max 300°C

Mechanical Data

Center	3.50 mm / 138 mil
Full Travel	5.00 mm
Working Travel	4.00 mm
Switching Travel	1.70 mm
Pre-Loaded Spring Force	0.12/ 0.25/ 0.30/ 0.40/ 0.60/ 1.80/ 1.40/ 1.70/ 2.00/ 2.70/ 2.00/ 5.00/ 4.00 N
Spring Force at Working Travel	0.75/ 1.25/ 1.80/ 2.30/ 3.50/ 7.00/ 8.50/ 9.00/ 9.50/ 10.00/ 12.50/ 13.00 N
Spring Force at Switching Travel	0.20/ 0.45/ 0.75/ 1.00/ 1.60/ 3.60/ 3.60/ 4.40/ 4.80/ 5.40/ 5.20/ 8.00/ 7.60 N

Electrical Data

Receptacle / Plunger

Max. Current Rating	5.0 A
Typical Continuity Resistance	≤ 15 mOhm

Pin / Plunger

Max. Current Rating	1.0 A
Typical Continuity Resistance	≤ 50 mOhm
Typical Insulating Voltage	1000 V

Materials

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

Recommended Diameter of Drill

H 3011/GWR5 (/R /RK)

HP 2361.1 (Trolitax)	3.02 mm
HGW 2372 (Glass filled Material)	3.04 mm

H 3011/K (/5K)

HP 2361.1 (Trolitax)	3.01 mm
HGW 2372 (Glass filled Material)	3.02 mm

How to Order

3011/ 2 F G S - C - 1.8 N - Au - 2.3
 1 2 3 4 5 6 7 8 9

1. Series 2. Collar Height 3. Type Opener 4. Threaded Design 5. Plug-in Connector 6. Tip Style 7. Spring Force 8. Tip Plating 9. Tip Diameter

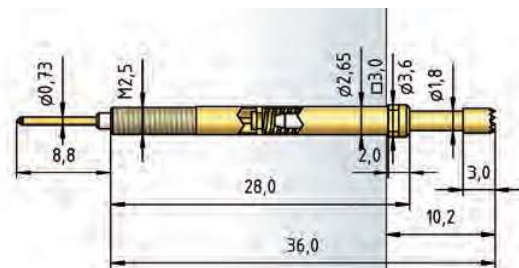
Tip Style · Diameter · Plating



C

2.30 Au

3011/2FGS



H 3011/GWR5



H 3011/R



H 3011/K



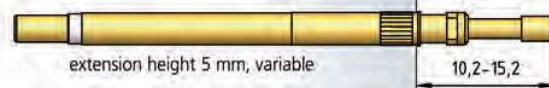
H 3011/RK



H 3011/5K



HI 3011



Series 3010/2G • 3010/10G

- Switching test probe for the cable harness test
- Plug-in and threaded type
- Switching travel 1.7 mm (4.0 mm on request)
- Soldering temperature max 300°C

Mechanical Data

Center	4.00 mm / 160 mil
Full Travel	5.00 mm
Working Travel	4.00 mm
Switching Travel	1.70 mm
Pre-Loaded Spring Force	0.12/ 0.30/ 1.80/ 1.70/ 2.70/ 5.00 N
Spring Force at Working Travel	1.25/ 2.30/ 7.00/ 9.00/ 10.00/ 13.00 N
Spring Force at Switching Travel	0.18/ 0.70/ 3.60/ 4.40/ 5.40/ 8.00 N

Electrical Data

Receptacle / Plunger

Max. Current Rating	5.0 A
Typical Continuity Resistance	≤ 15 mOhm

Pin / Plunger

Max. Current Rating	1.0 A
Typical Continuity Resistance	≤ 50 mOhm
Typical Insulating Voltage	1000 V

Materials

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

Recommended Diameter of Drill

HP 2361.1 (Trolitax)	3.28 mm
HGW 2372 (Glass filled Material)	3.29 mm

Connector Pin X / mm	Connector Pin Length Y / mm
0.5	6.0
1.0	2.5
1.0	4.0

How to Order

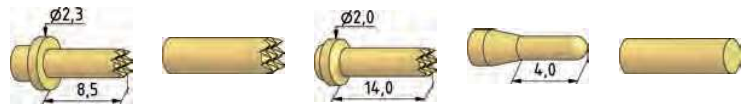
3010/ 2 G - A - 2.3 N - Au - 2.3 /1.0x 4.0
 1 2 3 4 5 6 7 8 9

1. Series 2. Collar Height 3. Threaded Design 4. Tip Style 5. Spring Force
 6. Tip Plating 7. Tip Diameter 8. Connector Pin Diameter 9. Connector Pin Length

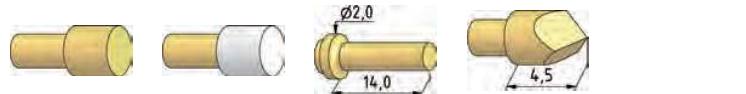
Tip Style · Diameter · Plating



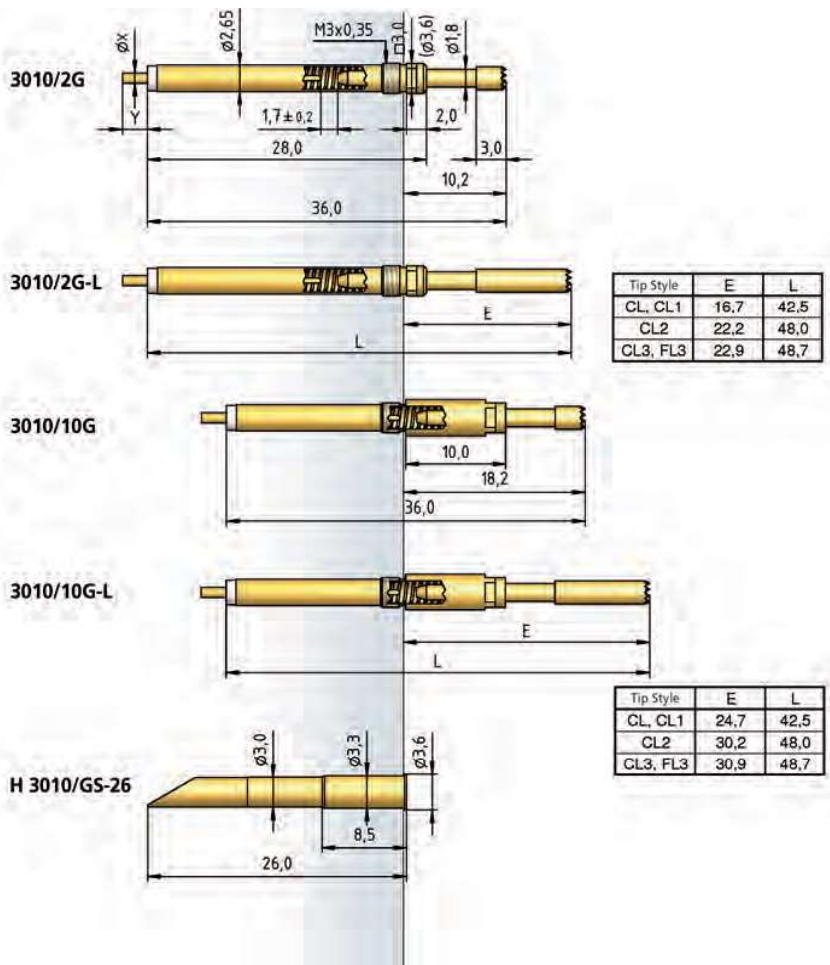
A	C	C	CL	C1
2.30 Au	1.80 Au	2.30 Au 3.00 Au 4.00 Au	2.30 Au	1.00 Au



CL1	CL2	CL3	D6	F
1.00 Au	1.80 Au	1.00 Au	1.00 Au	1.80 Au



F	F1	FL3	H2
2.00 Au 2.30 Au	2.30 HTK 3.00 HTK 4.00 HTK 5.00 HTK	1.00 Au	2.60 Au



Series 3010/2GW(5)

- Switching test probe for the cable harness test
- Threaded type
- Easy-replacement system
- Replacement without soldering
- Switching travel 1.7 mm (4.0 mm on request)
- Soldering temperature max 300°C
- Variable extension height (optional)

Mechanical Data

Center	4.00 mm / 160 mil
Full Travel	5.00 mm
Working Travel	4.00 mm
Switching Travel	1.70 mm
Pre-Loaded Spring Force	0.12/ 0.25/ 0.30/ 0.40/ 0.60/ 1.80/ 1.40/ 1.70/ 2.00/ 2.70/ 2.00/ 5.00/ 4.00 N
Spring Force at Working Travel	1.25/ 1.75/ 2.30/ 2.80/ 4.00/ 7.50/ 9.00/ 9.50/ 10.00/ 10.50/ 13.00/ 13.50 N
Spring Force at Switching Travel	0.20/ 0.50/ 0.70/ 1.00/ 1.60/ 3.60/ 3.60/ 4.40/ 4.80/ 5.40/ 5.20/ 8.00/ 7.60 N

Electrical Data

Receptacle / Plunger

Max. Current Rating	5.0 A
Typical Continuity Resistance	≤ 15 mOhm

Pin / Plunger

Max. Current Rating	1.0 A
Typical Continuity Resistance	≤ 50 mOhm
Typical Insulating Voltage	1000 V

Materials

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

Recommended Diameter of Drill

H3010/GW(5)	
HP 2361.1 (Trolitax)	3.28 mm
HGW 2372 (Glass filled Material)	3.29 mm
H3010/GWR5	
HP 2361.1 (Trolitax)	3.31 mm
HGW 2372 (Glass filled Material)	3.32 mm

How to Order

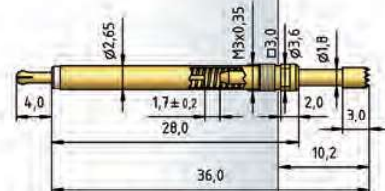
3010 / 2 G W 5 - C - 1.3 N - Au - 2.3
 1 2 3 4 5 6 7 8 9

1. Series 2. Collar Height 3. Threaded Design 4. Interchangeable without Soldering 5. Adjustment Area of the Extension Height 6. Tip Style 7. Spring Force 8. Tip Plating 9. Tip Diameter

Tip Style · Diameter · Plating

A 2.30 Au	C 1.80 Au	C 2.30 Au 3.00 Au 4.00 Au	CL 2.30 Au	C1 1.00 Au
CL1 1.00 Au	CL2 1.80 Au	CL3 1.00 Au	D6 1.00 Au	F 1.80 Au
F 2.00 Au 2.30 Au	F1 2.30 HTK 3.00 HTK 4.00 HTK 5.00 HTK	FL3 1.00 Au	H2 2.60 Au	

3010/2GW

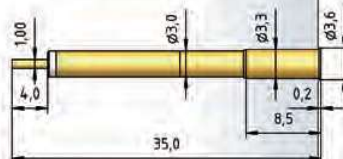


3010/2GW-L



Tip style	E	L
CL, CL1	16.7	42.5
CL2	22.2	48.0
CL3, FL3	22.9	48.7

H 3010/GW



3010/2GW5



H 3010/GW5



H 3010/GWR5



Series 3011/2GS

- Switching test probe for the cable harness test
- Threaded type
- Easy-replacement system
- Replacement without soldering
- Switching travel 1.7 mm (4.0 mm on request)
- Soldering temperature max 300°C

Mechanical Data

Center	4.00 mm / 160 mil
Full Travel	5.00 mm
Working Travel	4.00 mm
Switching Travel	1.70 mm
Pre-Loaded Spring Force	0.12/ 0.25/ 0.30/ 0.40/ 0.60/ 1.80/ 1.40/ 1.70/ 2.00/ 2.70/ 2.00/ 5.00/ 4.00 N
Spring Force at Working Travel	0.75/ 1.25/ 1.80/ 2.30/ 3.50/ 6.50/ 7.00/ 8.50/ 9.00/ 9.50/ 10.00/ 12.50/ 13.00 N
Spring Force at Switching Travel	0.20/ 0.50/ 0.70/ 1.00/ 1.60/ 3.60/ 3.60/ 4.40/ 4.80/ 5.40/ 5.20/ 8.00/ 7.60 N

Electrical Data

Receptacle / Plunger

Max. Current Rating	5.0 A
Typical Continuity Resistance	≤ 15 mOhm

Pin / Plunger

Max. Current Rating	1.0 A
Typical Continuity Resistance	≤ 50 mOhm
Typical Insulating Voltage	1000 V

Materials

Barrel	Brass, gold plated
Spring	Spring Steel, gold plated
Plunger	Steel, gold plated, gold plated with Insulator
Receptacle	Brass, gold plated

Recommended Diameter of Drill

H 3011/GWR5 (/R /RK)

HP 2361.1 (Trolitax)	3.02 mm
HGW 2372 (Glass filled Material)	3.04 mm

H 3011/K (/5K)

HP 2361.1 (Trolitax)	3.01 mm
HGW 2372 (Glass filled Material)	3.02 mm

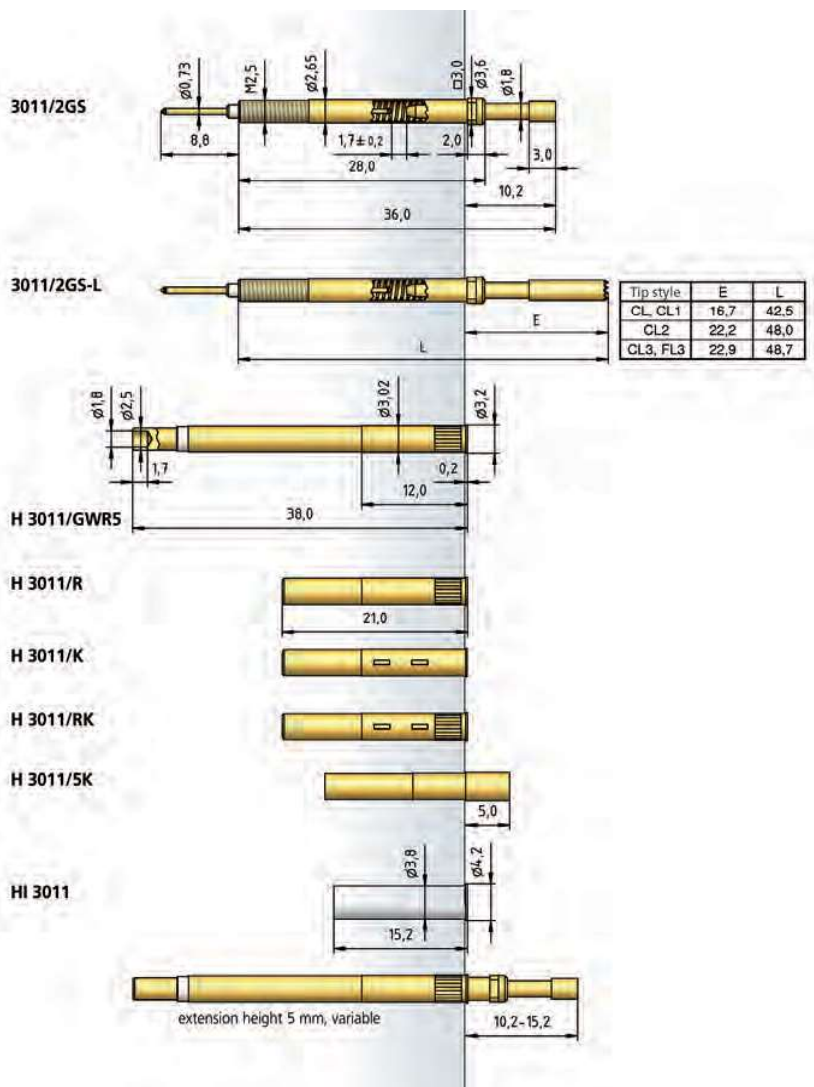
How to Order

3011/ 2 G S - C - 1.8 N - Au - 2.3
 1 2 3 4 5 6 7 8

1. Series
2. Collar Height
3. Threaded Design
4. Plug-in Connector
5. Tip Style
6. Spring Force
7. Tip Plating
8. Tip Diameter

Tip Style · Diameter · Plating

A	C	C	CL	C1
2.30 Au	1.80 Au	2.30 Au 3.00 Au 4.00 Au	2.30 Au	1.00 Au
CL1	CL2	CL3	D6	F
1.00 Au	1.80 Au	1.00 Au	1.00 Au	1.80 Au
F	F1	F1L	FL3	H2
2.00 Au 2.30 Au	2.30 HTK 3.00 HTK 4.00 HTK 5.00 HTK	2.30 HTK 3.00 HTK	1.00 Au	2.60 Au



Series 3012/2GS

- Switching test probe for the cable harness test
- Threaded type
- Easy-replacement system
- Replacement without soldering
- Version for large tip diameters
- Switching travel 1.7 mm (4.0 mm on request)
- Soldering temperature max 300°C

Mechanical Data

Center	4.00 mm / 160 mil
Full Travel	4.20 mm
Working Travel	4.00 mm
Switching Travel	1.70 mm
Pre-Loaded Spring Force	0.12/ 0.25/ 0.30/ 0.40/ 0.60/ 1.80/ 1.40/ 1.70/ 2.00/ 2.70/ 2.00/ 5.00/ 4.00 N
Spring Force at Working Travel	0.75/ 1.25/ 1.80/ 2.30/ 3.50/ 6.50/ 7.00/ 8.50/ 9.00/ 9.50/ 10.00/ 12.50/ 13.00 N
Spring Force at Switching Travel	0.20/ 0.50/ 0.70/ 1.00/ 1.60/ 3.60/ 3.60/ 4.40/ 4.80/ 5.40/ 5.20/ 8.00/ 7.60 N

Electrical Data

Receptacle / Plunger

Max. Current Rating	5.0 A
Typical Continuity Resistance	≤ 15 mOhm

Pin / Plunger

Max. Current Rating	1.0 A
Typical Continuity Resistance	≤ 50 mOhm
Typical Insulating Voltage	1000 V

Materials

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

Recommended Diameter of Drill

H 3011/GWR5 (/R /RK)

HP 2361.1 (Trolitax)	3.02 mm
HGW 2372 (Hartglasgewebe)	3.04 mm

H 3011/K (/5K)

HP 2361.1 (Trolitax)	3.01 mm
HGW 2372 (Glass filled Material)	3.02 mm

How to Order

3012/ 2 G S - F - 1.8 N - Au - 3.0 C
 1 2 3 4 5 6 7 8 9

1. Series 2. Collar Height 3. Threaded Design 4. Plug-in Connector 5. Tip Style
 6. Spring Force 7. Tip Plating 8. Tip Diameter 9. Tip Material (only for CuBe)

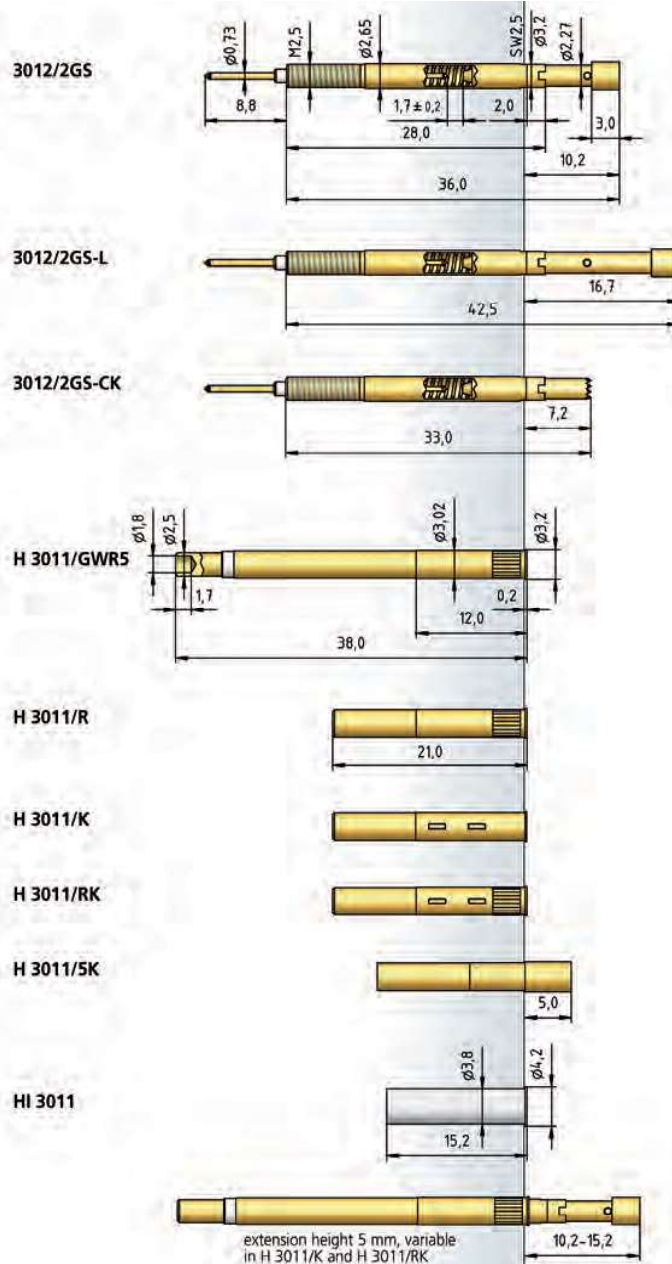
Tip Style · Diameter · Plating



C	CK	CL	C5	FL
3.00C Au	2.27C Au	2.30C Au	1.00 Au	3.00C Au
4.00C Au		3.00C Au		3.50C Au
				4.00C Au
				4.50C Au



F	F1	F1L
3.00C Au	2.30 HTK	3.00 HTK
3.50C Au	3.00 HTK	3.50 HTK
4.00C Au	3.50 HTK	4.00 HTK
4.50C Au	4.00 HTK	4.50 HTK
5.00C Au	4.50 HTK	5.00 HTK
5.50C Au	5.00 HTK	5.50 HTK
5.90C Au	5.50 HTK	5.90 HTK



Series 3012/2GS • FS1/FLS1

- Switching test probe for the cable harness test
- Threaded type
- Easy-replacement system / Replacement without soldering
- Version for large tip diameters
- Tips insulated
- Switching travel 1.7 mm (4.0 mm on request)
- Soldering temperature max 300°C
- Variable extension height

Mechanical Data

Center	4.00 mm / 160 mil
Full Travel	4.50 mm
Working Travel	4.00 mm
Switching Travel	1.70 mm
Pre-Loaded Spring Force	0.12/ 0.25/ 0.30/ 0.40/ 0.60/ 1.80/ 1.40/ 1.70/ 2.00/ 2.70/ 2.00/ 5.00/ 4.00 N
Spring Force at Working Travel	0.75/ 1.25/ 1.80/ 2.30/ 3.50/ 6.50/ 7.00/ 8.50/ 9.00/ 9.50/ 10.00/ 12.50/ 13.00 N
Spring Force at Switching Travel	0.20/ 0.50/ 0.70/ 1.00/ 1.60/ 3.60/ 3.60/ 4.40/ 4.80/ 5.40/ 5.20/ 8.00/ 7.60 N

Electrical Data

Receptacle / Plunger

Max. Current Rating	5.0 A
Typical Continuity Resistance	≤ 15 mOhm

Pin / Plunger

Max. Current Rating	1.0 A
Typical Continuity Resistance	≤ 50 mOhm
Typical Insulating Voltage	1000 V

Materials

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

Recommended Diameter of Drill

H 3011/GWR5 (/R /RK)

HP 2361.1 (Trolitax)	3.02 mm
HGW 2372 (Hartglasgewebe)	3.04 mm

H 3011/K (/5K)

HP 2361.1 (Trolitax)	3.01 mm
HGW 2372 (Glass filled Material)	3.02 mm

How to Order

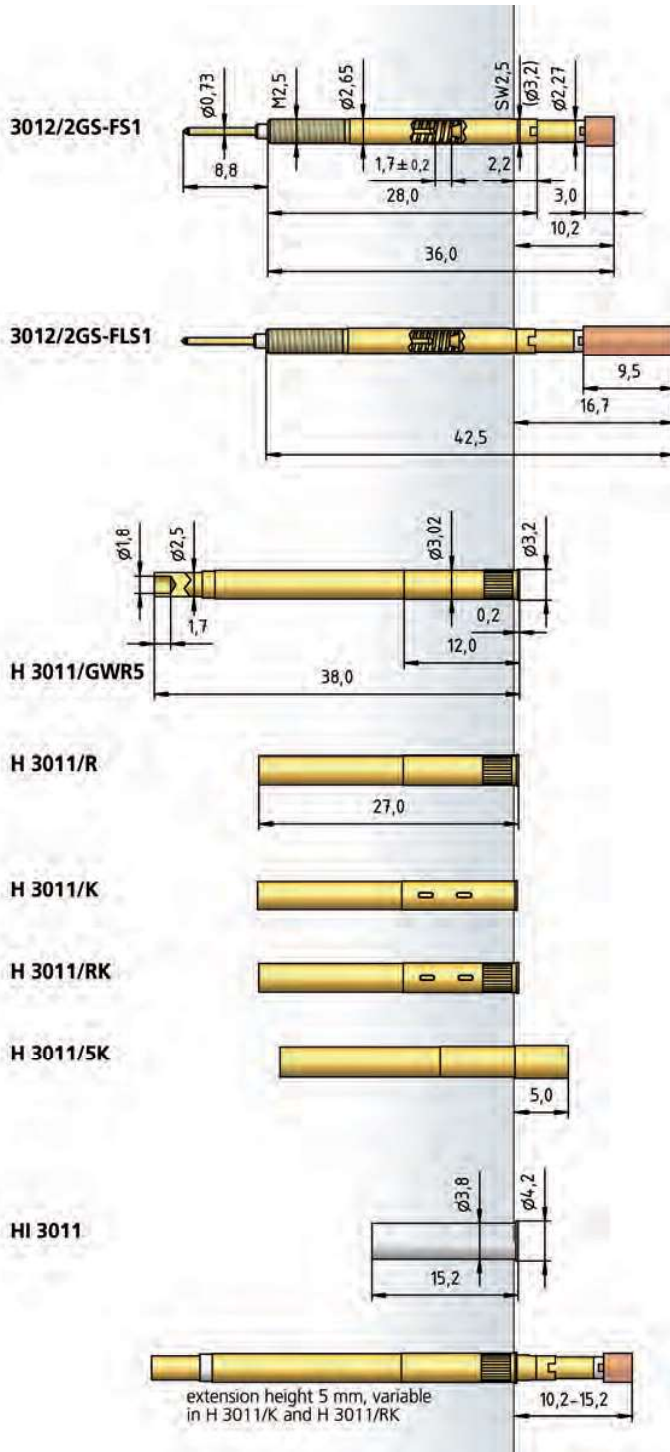
3012/ 2 G S - FS1 - 3.0 N - Au/CB - 3.0 C
 1 2 3 4 5 6 7 8 9

1. Series 2. Collar Height 3. Threaded Design 4. Plug-in Connector 5. Tip Style
 6. Spring Force 7. Tip Plating 8. Tip Diameter 9. Tip Material (only for CuBe)

Tip Style · Diameter · Plating








FS1	FLS1
3.00C Au/CB	3.00C Au/CB
3.50C Au/CB	3.50C Au/CB
4.00C Au/CB	4.50C Au/CB
4.50C Au/CB	5.00C Au/CB
5.00C Au/CB	
5.50C Au/CB	
5.90C Au/CB	



Series 3014/2G

- Switching test probe for the cable harness test
- Threaded type
- Easy-replacement system
- Replacement without soldering
- Short design (24.5 mm)
- Soldering temperature max 300°C

Tip Style · Diameter · Plating

				
A	C	C	F	F
3.00C Au	1.00C Au	2.00C Au 3.00C Au	1.00C Au	2.00C Au 3.00C Au

Mechanical Data

Center	4.00 mm / 160 mil
Full Travel	5.00 mm
Working Travel	4.00 mm
Switching Travel	1.70 mm
Pre-Loaded Spring Force	0.50 N
Spring Force at Working Travel	1.50 N
Spring Force at Switching Travel	0.90 N

Electrical Data

Receptacle / Plunger

Max. Current Rating	3.0 A
Typical Continuity Resistance	≤ 20 mOhm

Pin / Plunger

Max. Current Rating	1.0 A
Typical Continuity Resistance	≤ 40 mOhm
Typical Insulating Voltage	1000 V

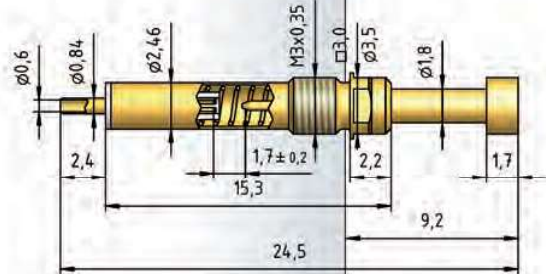
Materials

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

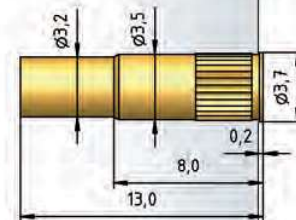
Recommended Diameter of Drill

HP 2361.1 (Trolitax)	3.50 mm
HGW 2372 (Glass filled Material)	3.51 mm

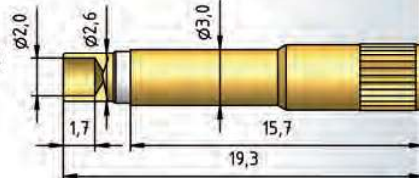
3014/2G



H 3014/GR



H 3014/GWR



How to Order

3014/ 2 G - A - 1.5 N - Au - 3.0 C
 1 2 3 4 5 6 7 8

1. Series 2. Collar Height 3. Threaded Design 4. Tip Style 5. Spring Force
 6. Tip Plating 7. Tip Diameter 8. Tip Material (only for CuBe)

Series 3015/G

- Ball-head switching test probe for presence detection with side activation
- Threaded type
- Precision ball plunger guide

Tip Style · Diameter · Plating



D
4.00 Ni

Mechanical Data

Center	7.5 mm / 300 mil
Full Travel	1.00 mm
Working Travel	0.80 mm
Switching Travel	0.50 mm
Pre-Loaded Spring Force	0.20 N
Spring Force at Working Travel	0.70 N
Spring Force at Switching Travel	0.60 N

Electrical Data

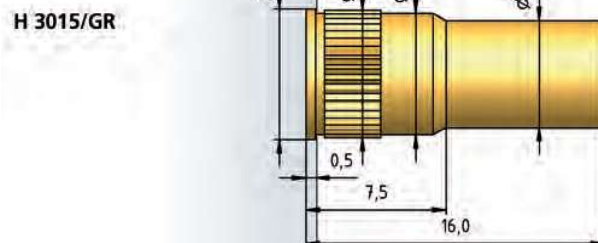
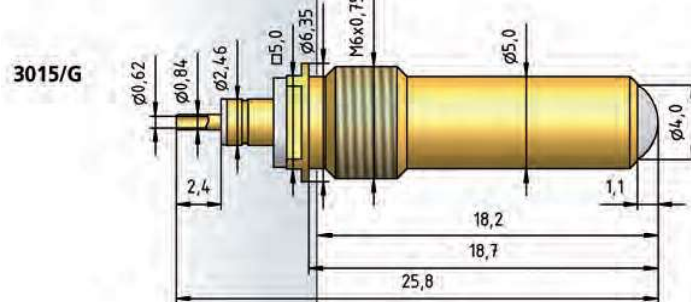
Max. Current Rating	1.0 A
Typical Continuity Resistance	≤ 25 mOhm
Typical Insulating Voltage	1000 V

Materials

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

Recommended Diameter of Drill

HP 2361.1 (Trolitax)	6.75...6.80 mm
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How to Order

3015/ G - D - 0.7 N - Ni - 4.0
 1 2 3 4 5 6

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