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Non-Rotating Test Probes

Non-Rotating Test Probes are always used for the precisely-positioned contact-creation of a connector barrel. This is normally the case in the testing of flat connectors, as used for example in fuse holders. Contacting then takes place with rectangular so-called spade-shaped tip styles.

Two construction principles are mainly used in order to fix the test probe in position. The purpose of these principles is to create a compulsory guide for the plunger in the test probe barrel. In the simple design, the plunger is guided in the barrel by means of a bolt-groove system. The test probe must be inserted into the receptacle in exactly the right position. If maintenance is needed, the newly-placed test probe must be repositioned.

It is easier to carry out the procedure with a plunger whose end is flattened and has a guide slot at the end of the receptacle. With this principle, the receptacle is placed in position only once. For every new assembly, the test probe is then always returned to the same position via the guide slot of the receptacle.



Series 2053

- Anti-turn feature ensures forced guidance between plunger and barrel
- Knurled section on the barrel guarantees secure fit of the test probe

Mechanical Data

Center	2.54 mm / 100 mil
Full Travel	5.00 mm
Working Travel	4.00 mm
Pre-Loaded Spring Force	0.45/ 0.60/ 1.00 N
Spring Force at Working Travel	1.50/ 3.00/ 5.00 N

Electrical Data

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

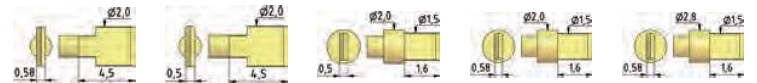
Materials

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

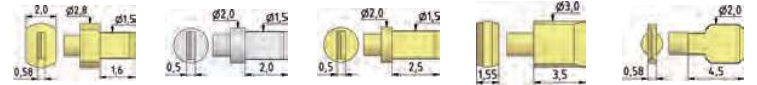
Recommended Diameter of Drill

HP 2361.1 (Trolitax)	1.98...2.00 mm
HGW 2372 (Glass filled Material)	1.98...2.00 mm

Tip Style · Diameter · Plating



Y1	Y21	Y1F	Y1F	Y1F
2.00 x 0.58 Au	2.00 x 0.50 Au	1.50 x 0.50 x 2.00 Au	1.50 x 0.58 x 2.00 Au	1.50 x 0.58 x 2.80 Au

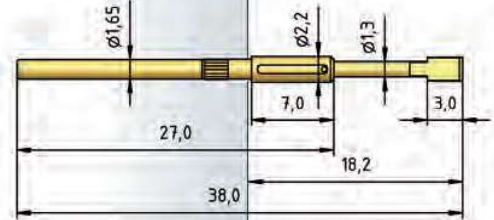


Y1F1	Y2F	Y3F	Y6	Y11
1.50 x 0.58 x 2.80 x 2.00 Au	1.50 x 0.50 x 2.00 Rh	1.50 x 0.50/2.50 Au	3.00 x 1.55 Au	2.00 x 0.58 Au

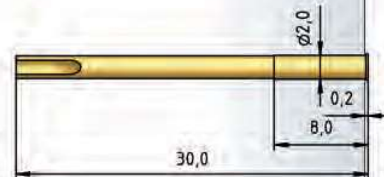


Y12	Y21R
1.80 x 0.80 Au	2.00 x 0.50 Au

2053



H 1021 L



How to Order

2053 - Y1 - 1.5 N - Au - 2.0x 0.58
 1 2 3 4 5 6

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

Series 1053

- Anti-turn feature ensures forced guidance between plunger and barrel
- Knurled section on the barrel guarantees secure fit of the test probe

Mechanical Data

Center	5.00 mm / 197 mil
Full Travel	5.00 mm
Working Travel	4.00 mm
Pre-Loaded Spring Force	0.50/ 0.80/ 1.25 N
Spring Force at Working Travel	1.50/ 3.00/ 5.00 N

Electrical Data

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


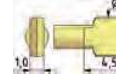



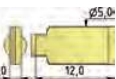




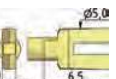
Materials

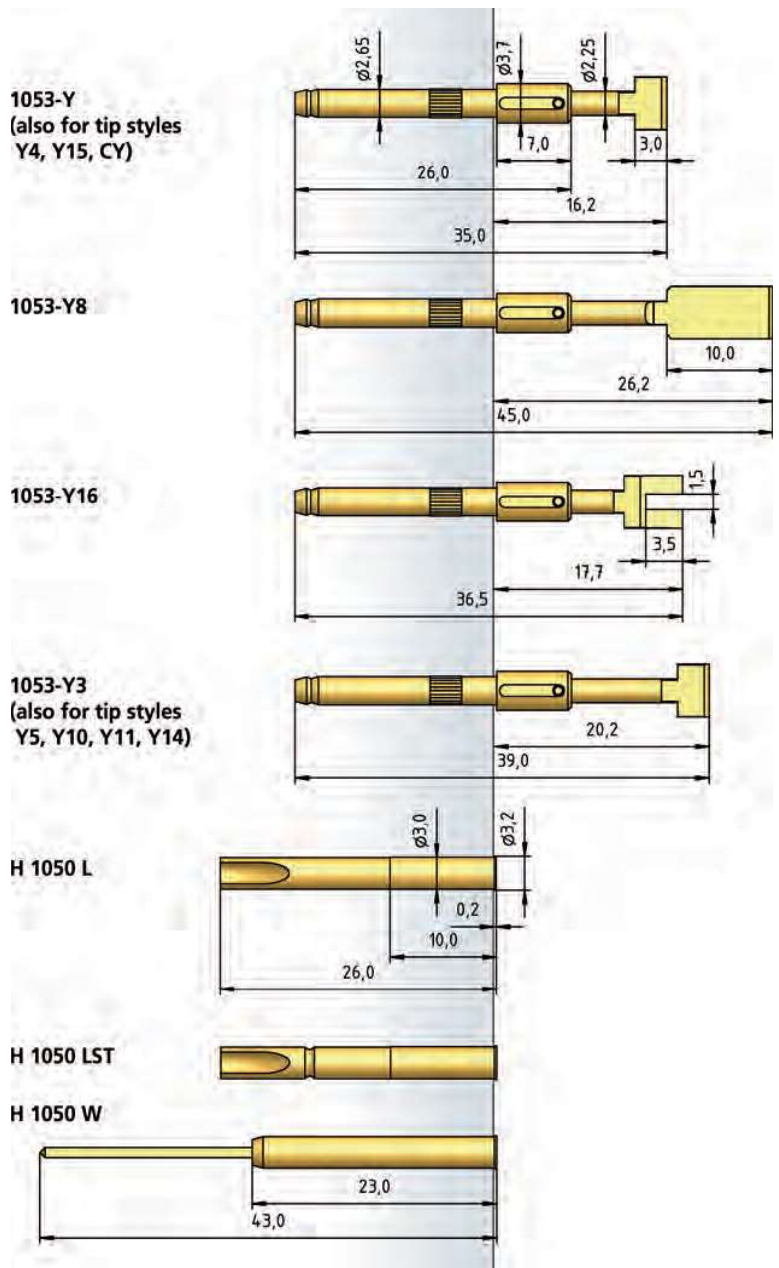
Barrel	Brass, gold plated
Spring	Spring Steel, Stainless Steel, gold plated
Plunger	CuBe
Receptacle	Brass, gold plated

Recommended Diameter of Drill

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

Tip Style · Diameter · Plating

				
CY 6.00 x 3.00C Au	Y 5.00 x 1.00C Au 5.00 x 1.00C Ni	Y4 4.00 x 1.00C Ni	Y3 5.00 x 0.50C Ni	Y5 4.00 x 0.65C Ni
				
Y8 5.00 x 1.00C Au	Y10 3.00 x 0.80C Ni	Y11 2.25 x 0.65C Ni	Y14 3.80 x 0.40C Ni	Y15 4.50 x 1.00C Au
				
Y16 5.00 x 1.00C Au				



How to Order

1053 - Y - 1.5 N - Ni - 5.0x 1.0 C
 1 2 3 4 5 6 7

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

Series 1021/GV

- Anti-turn feature ensured by the square section on the plunger and the slot in the receptacle
- Forced guidance of the test probe ensures that the receptacle must only be aligned once

Mechanical Data

Center	2.54 mm / 100 mil
Full Travel	5.30 mm (Y4: 4.3 mm; Y14: 4.15 mm)
Working Travel	4.00 mm
Pre-Loaded Spring Force	0.30/ 1.00 N
Spring Force at Working Travel	1.50/ 3.00 N

Electrical Data

Max. Current Rating	5.0...8.0 A
Typical Continuity Resistance	≤ 25 mOhm

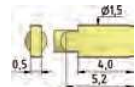
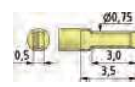
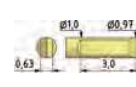

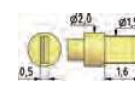
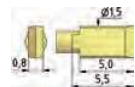
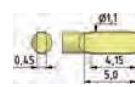
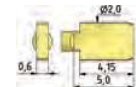
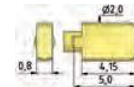
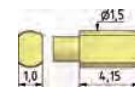
Materials

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

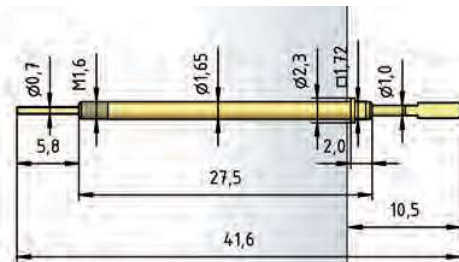
Recommended Diameter of Drill

HP 2361.1 (Trolitax)	2.00 mm
HGW 2372 (Glass filled Material)	2.03 mm

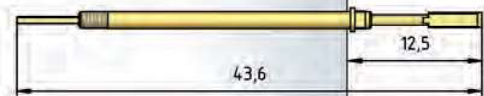
Tip Style · Diameter · Plating

				
Y4	Y	Y	Y1	Y1F
1.50x0.50 Au	0.75 x 0.50 Au	0.97/1.00 x 0.63 Au	0.97/1.00 x 0.63 Au	1.50 x 0.50 x 2.00 Au
				
Y5	Y14	Y14	Y14	Y14
1.50 x 0.80 Au	1.10 x 0.45 Au	2.00 x 0.60 Au	2.00 x 0.80 Au	1.50 x 1.00 Au

1021/GV



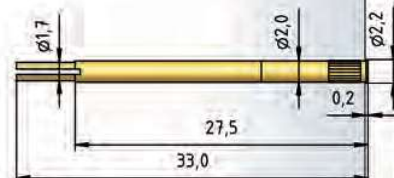
1021/GV-Y5



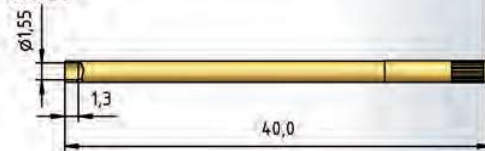
1021/GV side view



H 1021/GVR



H 1021/GVRV-L



How to Order

1021 / G V - Y4 - 1.5 N - Au - 1.5 x0.5 C
 1 2 3 4 5 6 7 8 9

1. Series 2. Threaded Design 3. Non-rotating Design 4. Tip Style 5. Spring Force
 6. Tip Plating 7. Tip Diameter 8. Tip Thickness 9. Tip Material (only for CuBe)

Series 1053/G

- Anti-turn feature ensured by the square section on the plunger and the slot in the receptacle
- Forced guidance of the test probe ensures that the receptacle must only be aligned once

Mechanical Data

Center	4.00 mm / 160 mil
Full Travel	5.00 mm
Working Travel	4.00 mm
Switching Travel (with switching element)	2.50 mm
Pre-Loaded Spring Force	0.30/ 0.40/ 0.50/ 0.80/ 0.80/ 1.00 N
Spring Force at Working Travel	0.50/ 1.50/ 2.00/ 3.00/ 4.00/ 5.00 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

Materials

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

Recommended Diameter of Drill

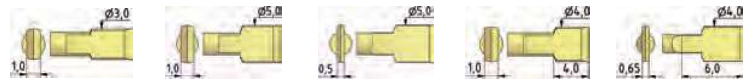
HP 2361.1 (Trolitax)	3.01 mm
HGW 2372 (Glass filled Material)	3.03 mm

How to Order

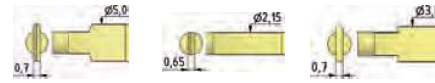
1053/ G - Y4 - 1.5 N - Au - 4.0x 0.65 C
 1 2 3 4 5 6 7 8

- Series
- Threaded Design
- Tip Style
- Spring Force
- Tip Plating
- Tip Diameter
- Tip Thickness
- Tip Material (only for CuBe)

Tip Style · Diameter · Plating



Y	Y	Y3	Y4	Y5
3.00 x 1.00C Au	5.00 x 1.00C Au	5.00 x 0.50C Au	4.00 x 1.00C Au	4.00 x 0.65C Au



Y8	Y11	Y15
5.00 x 0.70C Au	2.15 x 0.65C Au	3.00 x 0.70C Au

