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Test Probes for Centers > 100mil / > 2.54 mm

The range of universal Test Probes for Centers > 100 mil comprises types for centers up to 177 mil / 4.75 mm.

They can be used for ICT/FTs (in-circuit test or function test) of components, burn-in / run-in tests, and for applications up to the testing of connectors on cable harnesses for the automotive industry. The use of suitable probes allows temperature ranges from -30°C up to 250°C to be achieved (see page 10).



Series 1030

- Stable design
- Height-adjustable installation by using receptacle with press ring
- Contacting of assembled PCBs
- Universal applications

Mechanical Data

Center	3.18 mm / 125 mil
Full Travel	6.30 mm
Working Travel	5.00 mm
Pre-Loaded Spring Force	0.40/ 0.60/ 0.70 N
Spring Force at Working Travel	1.50/ 2.25/ 3.00 N

Electrical Data

Max. Current Rating	4.0 A
Typical Continuity Resistance	≤ 30 mOhm

Materials

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

Recommended Diameter of Drill

HP 2361.1 (Trolitax)	2.32 mm
with pressed-in Ring	2.54 mm
HGW 2372 (Glass filled Material)	2.34 mm
with pressed-in Ring	2.56 mm

Tip Style · Diameter · Plating

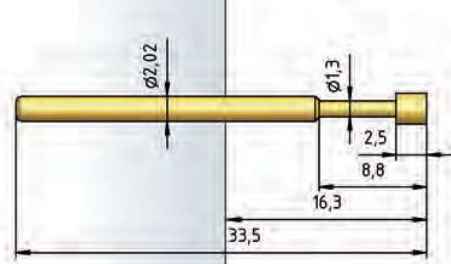


A	B	C	D	E
1.30 Rh 2.50 Au	1.30 Au	2.50 Au/Ni	1.30 Au 1.60 Au/Ni 2.50 Au	2.50 Au

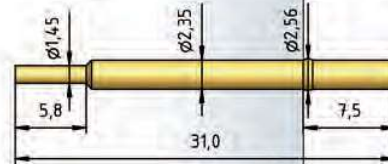


F	G	H
2.50 Au/Ni 4.00 Au	2.50 Rh	2.50 Au

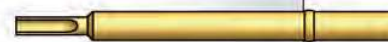
1030



H 1030 C



H 1030 L



How to Order

1030 - A - 1.5 N - Au - 2.5
 1 2 3 4 5

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

Series 1054

- Stable design
- Height-adjustable installation by using receptacle with press ring
- Contacting of assembled PCBs
- Universal applications

Mechanical Data

Center	3.50 mm / 138 mil
Full Travel	6.40 mm
Working Travel	5.10 mm
Pre-Loaded Spring Force	0.40/ 0.40/ 0.50/ 1.00 N
Spring Force at Working Travel	1.00/ 1.50/ 2.50/ 3.00 N

Electrical Data

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

Materials




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

Recommended Diameter of Drill

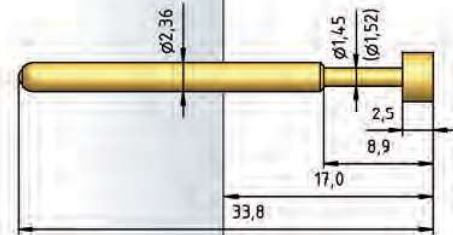
HP 2361.1 (Trolitax)	2.71 mm
with pressed-in Ring	2.89 mm
HGW 2372 (Glass filled Material)	2.67 mm
with pressed-in Ring	2.85 mm

Tip Style · Diameter · Plating

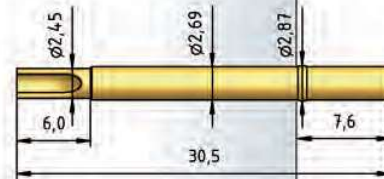
				
A	B	C	D	D
3.96 Au	1.52 Rh	3.96 Au	1.45 Au	2.36 Au 3.96 Au

		
E	F	G
2.36 Au/Rh 3.96 Au	1.45 Au	1.45 Ni

1054



H 1054 L



How to Order

1054 - **C** - **2.5 N** - **Au** - **3.96 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)

Series 1040

- Stable design
- Height-adjustable installation by using receptacle with press ring
- Contacting of assembled PCBs
- Universal applications

Mechanical Data

Center	4.00 mm / 160 mil
Full Travel	5.50 mm
Working Travel	4.40 mm
Pre-Loaded Spring Force	0.50/ 0.70/ 0.80/ 1.50 N
Spring Force at Working Travel	1.50/ 2.25/ 3.00/ 5.00 N

Electrical Data

Max. Current Rating	5.0 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)	2.99 mm
HGW 2372 (Glass filled Material)	3.00 mm

Tip Style · Diameter · Plating

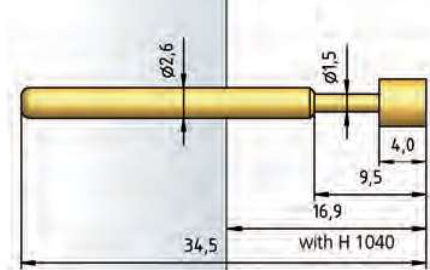


A	B	C	D	E
4.00 Au/Ni	1.50 Au/Ni	4.00 Au/Ni	2.40 Au/Ni	4.00 Au/Ni

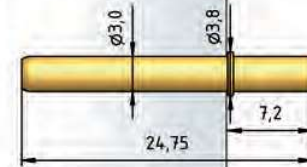


F	G	H
4.00 Au/Ni	4.00 Ni	4.00 Ni

1040



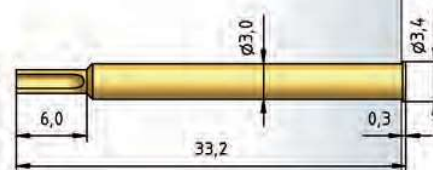
H 1040



1040



H 1045 L



How to Order

1040 - F - 1.5 N - Au - 4.0
 1 2 3 4 5

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

Series 1050

- Stable design
- Contacting of assembled PCBs
- Universal applications

Mechanical Data

Center	4.00 mm / 160 mil
Full Travel	5.50 mm
Working Travel	4.40 mm
Pre-Loaded Spring Force	0.20/ 0.20/ 0.40/ 1.00/ 1.00 N
Spring Force at Working Travel	0.40/ 0.80/ 1.50/ 3.00/ 5.00 N

Electrical Data

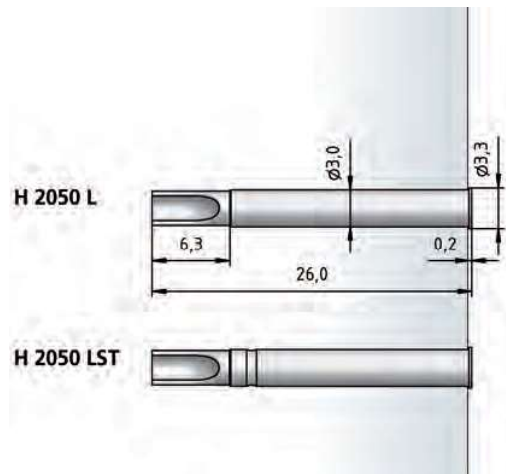
Max. Current Rating	5.0 A
Typical Continuity Resistance	≤ 30 mOhm

Materials

Barrel	Brass, gold plated
Spring	Spring Steel, gold plated
Plunger	Steel
Receptacle	Nickel Silver, unplated

Recommended Diameter of Drill

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



Distance rings see page 48

How to Order

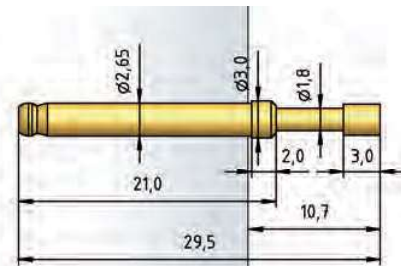
1050 - A6 - 1.5 N - Au - 4.0 C
 1 2 3 4 5 6

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

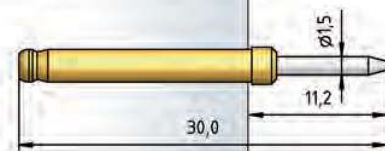
Tastkopfform · Durchmesser · Oberfläche

A	A6	B	BA	BA1
2.50 Ni 3.00 Au 4.00 Au	2.50C Au 4.00C Au	1.80 Rh/Ni	1.80 Au/Ni	1.50 Ni
C	C6	D	D	D
2.30 Au/Ni/Rh 2.50 Au/Ni/Rh 3.00 Au/Ni/Rh 4.00 Au/Ni/Rh	3.50 Au/Ni	1.00 Rh	1.80 Au	2.30 Au/Ni 2.50 Au/Ni
D2	D3	F	F	F3
3.00 Au/Ni	0.80 Rh 1.40 Au	1.80 Au/Ni	2.30 Au/Rh 2.50 Rh 3.00 Au 4.00 Rh	1.00 Rh 1.40 Au
G	H	K	KF	
2.30 Rh 2.50 Rh/Ni 4.00 Au/Rh/Ni	2.50 Ni 2.60 Ni 3.00 Ni/Rh 4.20 Rh	1.80 Rh 3.00 Ni	2.60 Ni 4.00 Ni	

1050



1050-BA1



1050-D2



1050-C6



Series 1060

- Stable design
- Contacting of assembled PCBs
- Universal applications

Mechanical Data

Center	4.00 mm / 160 mil
Full Travel	5.50 mm
Working Travel	4.40 mm
Pre-Loaded Spring Force	0.20/ 0.40/ 0.50/ 0.80/ 0.70 N
Spring Force at Working Travel	0.60/ 1.50/ 2.25/ 3.00/ 5.00 N

Electrical Data

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

Materials

Barrel	Brass, gold plated
Spring	Spring Steel, gold plated
Plunger	Steel
Receptacle	Nickel Silver, unplated

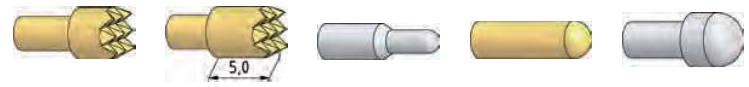
Recommended Diameter of Drill

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

Tastkopfform · Durchmesser · Oberfläche



A	A6	B	BA	BA1
2.50 Ni 3.00 Au 4.00 Au	2.50C Au 4.00C Au	1.80 Rh/Ni	1.80 Au/Ni	1.50 Ni



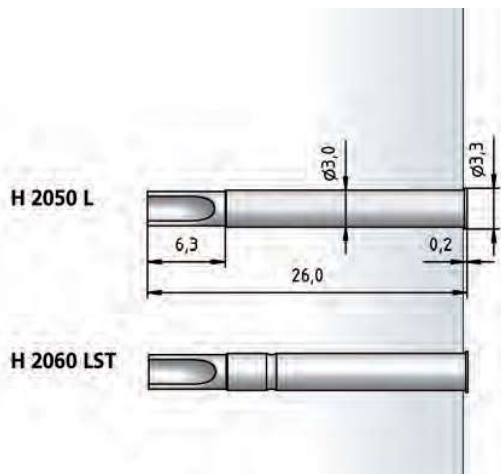
C	C6	D	D	D
2.30 Au/Ni/Rh 2.50 Au/Ni/Rh 3.00 Au/Ni/Rh 4.00 Au/Ni/Rh	3.50 Au/Ni	1.00 Rh	1.80 Au	2.30 Au/Ni 2.50 Au/Ni



D2	D3	F	F	F3
3.00 Au/Ni	0.80 Rh 1.40 Au	1.80 Au/Ni	2.30 Au/Rh 2.50 Rh 3.00 Au 4.00 Rh	1.00 Rh 1.40 Au

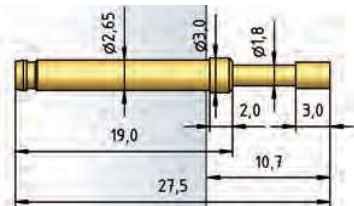


G	H	K	KF
2.30 Rh 2.50 Rh/Ni 4.00 Au/Rh/Ni	2.50 Ni 2.60 Ni 3.00 Ni/Rh 4.20 Rh	1.80 Rh 3.00 Ni	2.60 Ni 4.00 Ni



Distance rings see page 48

1060



1060-D2



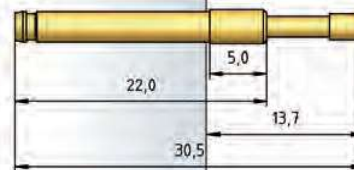
1060-C6



1060-BA1



1060/5



How to Order


1060 - A6 - 1.5 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)

Series 1051 • 1061

- Stable design
- Increased installation height
- Contacting of assembled PCBs
- Universal applications

Tip Style · Diameter · Plating

	
B	BA
1.80 Ni	1.80 Rh

Mechanical Data

Center	4.00 mm / 160 mil
Full Travel	7.00 mm
Working Travel	5.60 mm
Pre-Loaded Spring Force	0.15/ 0.25/ 0.40/ 0.60 N
Spring Force at Working Travel	0.70/ 0.80/ 1.50/ 3.00 N

Electrical Data

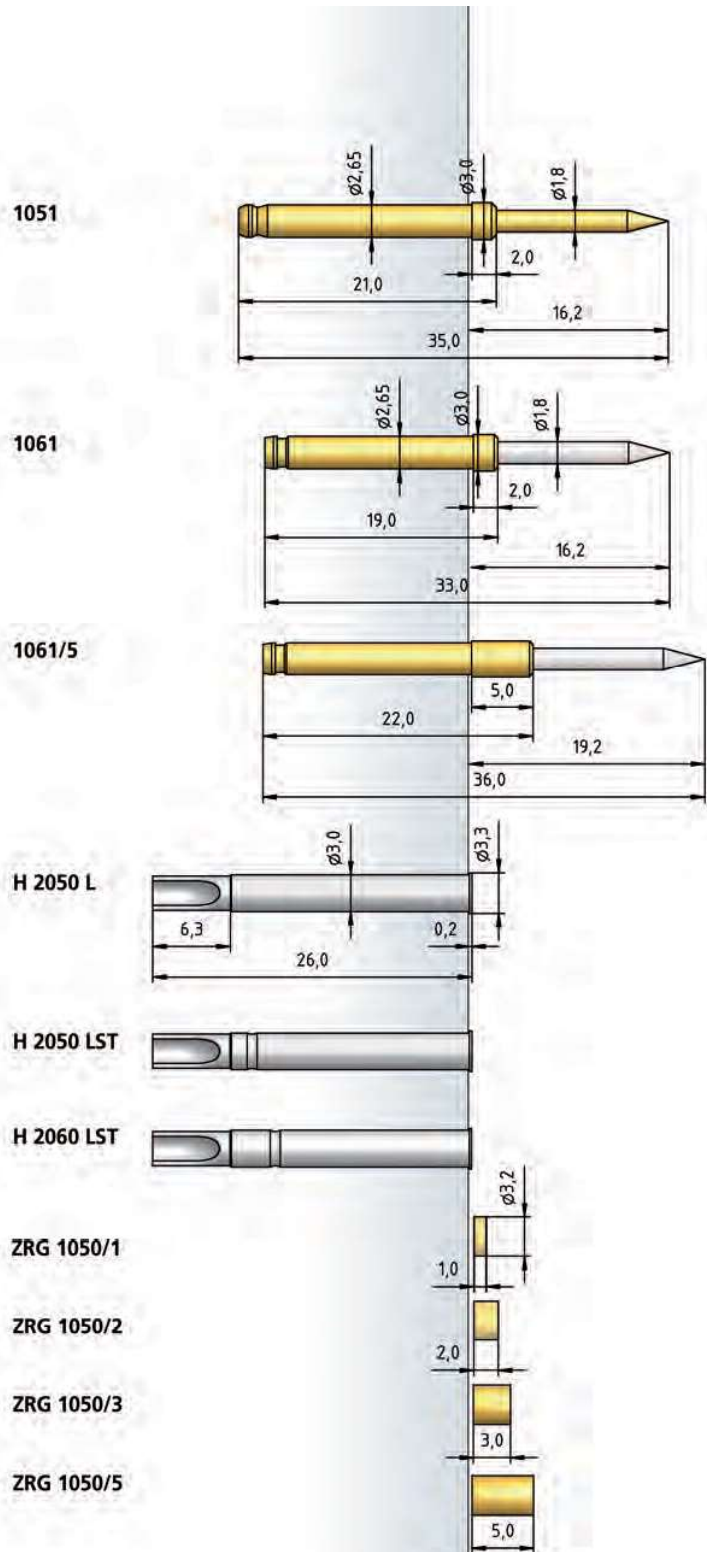
Max. Current Rating	5.0 A
Typical Continuity Resistance	≤ 35 mOhm

Materials

Barrel	Brass, gold plated
Spring	Spring Steel, gold plated
Plunger	Steel
Receptacle	Nickel Silver, unplated

Recommended Diameter of Drill

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



How to Order

1051 - B - 1.5 N - Ni - 1.8
 1 2 3 4 5

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

Series 1041 • 1041/W

- Stable design
- Contacting of assembled PCBs
- Universal applications

Mechanical Data

Center	4.50 mm / 177 mil
Full Travel	5.50 mm
Working Travel	4.80 mm
Pre-Loaded Spring Force	0.25/ 0.75/ 0.60 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, gold plated
Receptacle	Brass, gold plated

Recommended Diameter of Drill

HP 2361.1 (Trolitax)	3.50 mm
HGW 2372 (Glass filled Material)	3.52 mm

Tip Style · Diameter · Plating

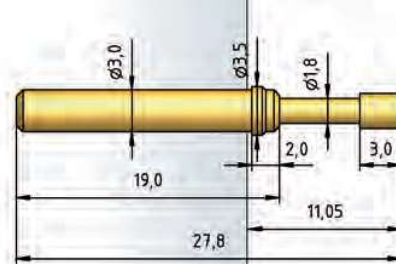


A	B	BA	C	D
2.50 Ni/Rh 4.00 Au	1.80 Rh/Ni	1.80 Rh/Ni	2.30 Au/Ni/Rh 3.00 Au/Ni 4.00 Au/Ni/Rh	2.30 Au



F	F3	G
2.30 Au 4.00 Au	1.00 Rh	2.30 Rh 4.00 Au

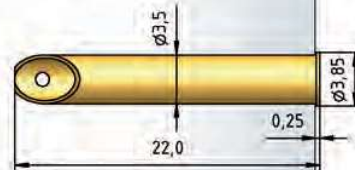
1041



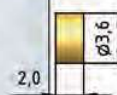
1041/W



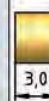
H 1042/5



ZRG 1041/2



ZRG 1041/3



How to Order

1041/ W - C - 1.5 N - Au - 4.0/ MH5.5

1 2 3 4 5 6 7

1. Series 2. Wire-Wrap Connector 3. Tip Style 4. Spring Force 5. Tip Plating
6. Tip Diameter 7. Full Travel

Series 1042

- Stable design
- Test probe with continuous plunger
- Contacting of assembled PCBs
- Universal applications
- Also for use with higher currents

Mechanical Data

Center	4.50 mm / 177 mil
Full Travel	7.00 mm
Working Travel	5.60 mm
Pre-Loaded Spring Force	0.40/ 0.50/ 0.60/ 1.00/ 3.50/ 3.00 N
Spring Force at Working Travel	1.50/ 2.25/ 3.00/ 4.50/ 6.00/ 12.50 N

Electrical Data

Connector / Receptacle

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

Connector / Plunger

Max. Current Rating	8.0 A
Typical Continuity Resistance	≤ 15 mOhm

Materials

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

Recommended Diameter of Drill

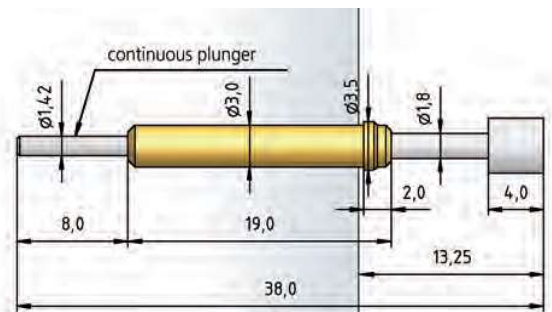
HP 2361.1 (Trolitax)	3.50 mm
HGW 2372 (Glass filled Material)	3.52 mm

Tip Style · Diameter · Plating

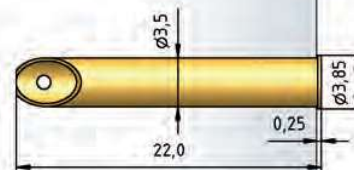


C	C	F	G	H
1.85 Ni	4.00 Au/Ni	4.00 Ni	1.85 Ni	4.00 Rh

1042



H 1042/S



H 1042



How to Order






1042 - C - 1.5 N - Au - 4.0
 1 2 3 4 5

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

Series 1055

- Stable design
- Height-adjustable installation by using receptacle with press ring
- Contacting of assembled PCBs
- Universal applications

Tip Style · Diameter · Plating

				
A	B	C	D2	G2
2.36 Rh	2.03 Rh	3.96 Rh	2.03C Au	1.30 Rh

Mechanical Data

Center	4.50 mm / 177 mil
Full Travel	6.40 mm
Working Travel	5.10 mm
Pre-Loaded Spring Force	0.60/ 1.00 N
Spring Force at Working Travel	2.25/ 4.75 N

Electrical Data

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

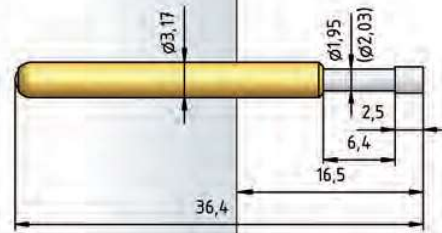
Materials

Barrel	Nickel Silver, Bronze, gold plated
Spring	Spring Steel, gold plated
Plunger	Steel, CuBe, gold plated oder rhodium plated
Receptacle	Bronze, gold plated

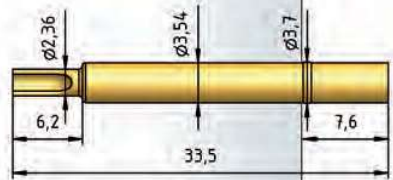
Recommended Diameter of Drill

HP 2361.1 (Trolitax)	3.54 mm
HGW 2372 (Glass filled Material)	3.60 mm

1055



H 1055 L



How to Order

1055 - A - 2.25 N - Rh - 2.36 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)