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## Push-Back Test Probes

Push-Back Test Probes are used for the contacting of connectors when a “catch test” is necessary. In this case, a defined high force is applied to the stop parts in order to check correct seating inside the connector or to check that the connector is locked in position. All types are designed as switching test probes. Stop parts which are not locked in position are pushed out by the pressure from the connector, and the push-back test probe does not switch or give a signal.

Push-Back Test Probes are available for centers of 4.0 mm and 2.54 mm and with contact pressures of up to 25 N. Series 5104, 5265 and 3028 are especially effective for these uses. Their modular design gives them a wide range of applications. Of course, solder-free replacement of the test probes is an integral part of the easy-replacement system.



# Series 3028.01

- Push-back test probe for the cable harness test
- Especially suitable for spade-shaped tip style
- Non-rotating variant
- Receptacle can be extended with switching element optional
- 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	2.60 mm
Pre-Loaded Spring Force	1.00/ 2.20/ 4.00 N
Spring Force at Switching Travel	3.10/ 6.80/ 10.70 N
Spring Force at Working Travel (without Switching Element)	4.30/ 9.30/ 14.30 N
Spring Force at Working Travel (with Switching Element)	+0.70 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)	2.10 mm
HGW 2372 (Glass filled Material)	2.11 mm

## How to Order

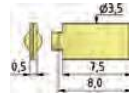
**3028.01 - Y - 15.0 N - Au - 1.5x 0.5**  
 1 2 3 4 5 6 7

1. Series 2. Variant 3. Tip Style 4. Spring Force 5. Tip Plating 6. Tip Diameter 7. Tip Thickness

## Tip Style · Diameter · Plating



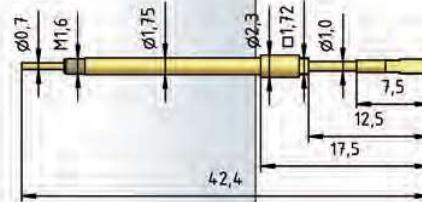
A	D2	F	Y	Y3
1.50 Au 2.00 Au	0.80 Au	1.30 Au	1.50 x 0.50 Au	1.50 x 0.50 Au



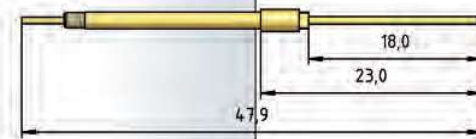
### Y8

3.50 x 0.50 Au

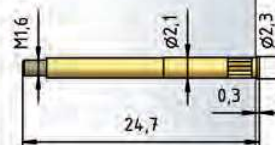
### 3028.01



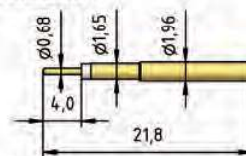
### 3028.01-D2



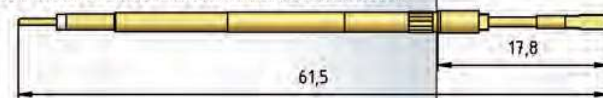
### H 3028/VR.01



### SEV 3028.01



### 3028.01 with H 3028.01/VR.01 and SEV 3028.01



# Series 5203

- Push-back test probe for the cable harness test
- Especially suitable for spade-shaped tip style
- Non-rotating variant
- Receptacle with switch function

### Mechanical Data

Center	2.54 mm / 100 mil
Full Travel	5.50 mm
Working Travel	5.00 mm
Switching Travel	2.50 mm
Pre-Loaded Spring Force	1.20 N
Spring Force at Switching Travel	5.60/ 8.10 N
Spring Force at Working Travel (without Switching Element)	10.00/ 15.00 N
Spring Force at Working Travel (with Switching Element)	+0.60 N

### Electrical Data

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

### Materials




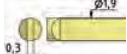
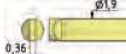


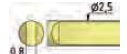
Spring	Spring Steel, gold plated
Plunger	CuBe
Receptacle	Brass, gold plated

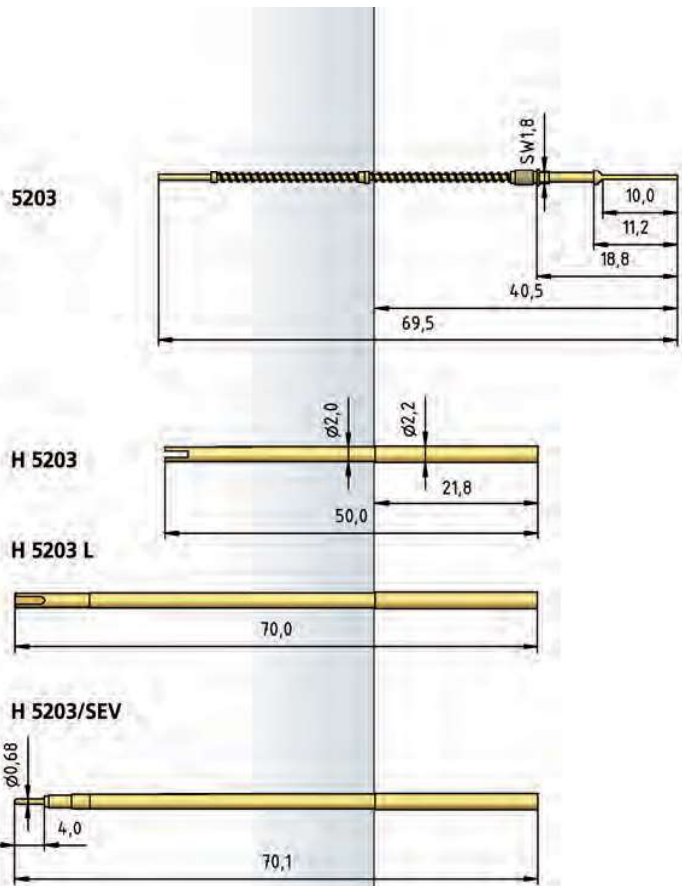
### Recommended Diameter of Drill

HP 2361.1 (Trolitax)	2.20 mm
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(Tolerances dependent on carrier material, test drilling is recommended)

### Tip Style · Diameter · Plating

				
<b>A</b>	<b>D</b>	<b>F</b>	<b>Y</b>	<b>Y</b>
1.90C Au 2.20C Au	1.20C Au 2.50C Au	1.50C Au 1.80C Au	1.90 x 0.30C Au	1.90 x 0.36C Au
				
<b>Y</b>	<b>Y</b>	<b>Y</b>		
1.90x0.50C Au	1.90x0.80C Au	2.50x0.80C Au		



### How to Order

**5203 - Y - 10.0 N - Au - 1.9x 0.3 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 5265

- Push-back test probe for the cable harness test
- Especially suitable for spade-shaped tip style
- Non-rotating variant
- Receptacle with switch function

## Mechanical Data

Center	3.00 mm / 118 mil
Full Travel	5.50 mm
Working Travel	5.00 mm
Switching Travel	2.60 mm
Pre-Loaded Spring Force	1.00/ 2.00/ 3.00/ 3.80 N
Spring Force at Switching Travel	3.10/ 6.20/ 9.20/ 12.20 N
Spring Force at Working Travel (without Switching Element)	5.00/10.00/15.00/20.00 N
Spring Force at Working Travel (with Switching Element)	+1.00 N

## Electrical Data

### Barrel / Probe Tip

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

### Connector / Probe Tip

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
Receptacle	Brass, gold plated

## Recommended Diameter of Drill

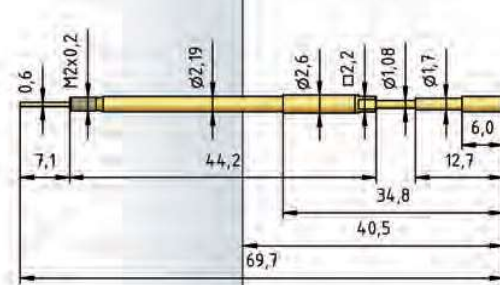
HP 2361.1 (Trolitax)	2.49...2.51 mm
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(Tolerances dependent on carrier material, test drilling is recommended)

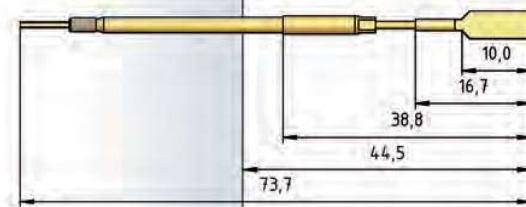
## Tip Style · Diameter · Plating

<b>C</b>	<b>F</b>	<b>Y</b>	<b>Y</b>	<b>Y</b>
2.00C Au 2.70C Au 3.00C Au	1.50C Au 1.80C Au 2.30C Au 3.00C Au	1.90x0.50C Au	1.90x0.80C Au	2.20 x 1.20C Au
<b>Y</b>	<b>Y</b>	<b>Y</b>	<b>Y</b>	<b>YL</b>
2.50x0.50C Au	2.50x0.80C Au	2.50x1.50C Au	2.70x0.80C Au	4.00x0.60C Au

5265



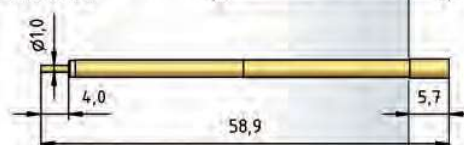
5265-YL



H 5265



H 5265/SEV



## How to Order

**5265 - Y - 15.0 N - Au - 1.9x 0.8 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 5087

- Push-back test probe for the cable harness test
- Suitable when standard head styles are used

### Mechanical Data

Center	4.00 mm / 160 mil
Full Travel	10.00 mm
Working Travel	9.50 mm
Switching Travel	7.50 mm
Pre-Loaded Spring Force	1.50/ 2.00/ 4.00 N
Spring Force at Working Travel	6.00/ 9.00/ 15.00 N
Spring Force at Switching Travel	4.30/ 6.80/ 12.00 N

### Electrical Data

#### Barrel / Probe Tip

Max. Current Rating	20.0 A
Typical Continuity Resistance	≤ 3 mOhm

#### Connector / Probe Tip

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	CuBe

### Recommended Diameter of Drill

HP 2361.1 (Trolitax)	3.00 mm
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(Tolerances dependent on carrier material, test drilling is recommended)

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

### How to Order

**5087 - F - 15.0 N - Au - 1.8 C / 1.0x 4.0**  
 1 2 3 4 5 6 7 8

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

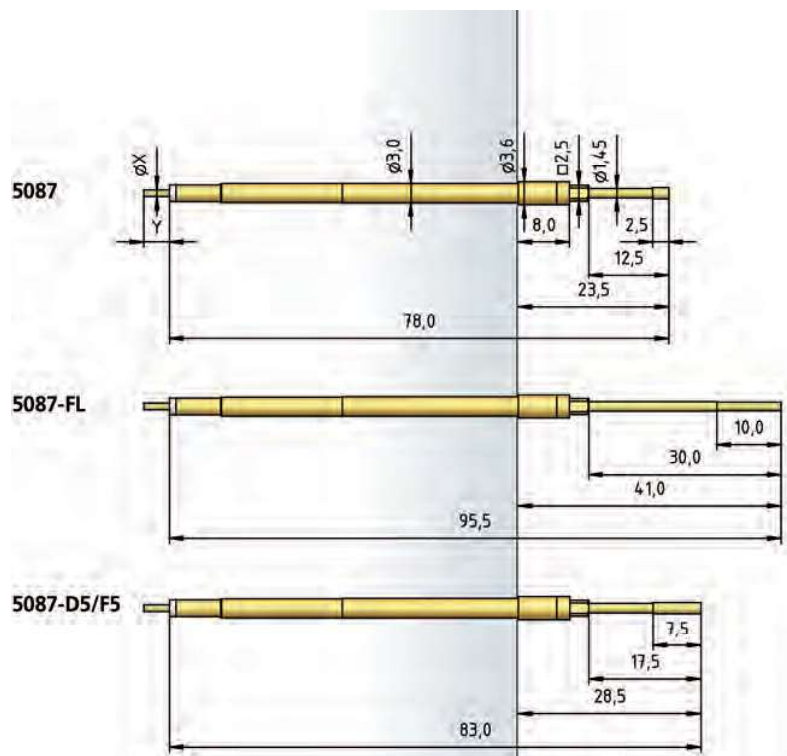
### Tip Style · Diameter · Plating



C	D	D5	F	F5
2.30C Au	1.45C Au	1.80C Au	1.00C Au	1.80C Au
2.80C Au		2.30C Au	1.10C Au	2.30C Au
3.00C Au		3.00C Au	1.40C Au	
4.00C Au				



F	FL
1.80C Au	1.30C Au
	1.80C Au



# Series 5104

- Push-back test probe for the cable harness test
- Especially suitable for spade-shaped tip style
- Non-rotating variant
- Receptacle with switch function

## Mechanical Data

Center	4.00 mm / 160 mil
Full Travel	7.00 mm
Working Travel	5.00 mm
Switching Travel	3.50 mm
Pre-Loaded Spring Force	0.50/ 1.00/ 1.50/ 3.00/ 4.00/ 3.00/ 4.50/ 5.00/ 4.00/ 9.00 N
Spring Force at Switching Travel	0.70/ 3.80/ 4.65/ 7.90/ 9.10/ 11.40/ 13.95/ 15.50/ 18.70/ 23.70 N
Spring Force at Working Travel (without Switching Element)	0.75/ 5.00/ 6.00/ 10.00/ 11.25/ 15.00/ 18.00/ 20.00/ 25.00/ 30.00 N
Spring Force at Working Travel (with Switching Element)	+0.75 N

## Electrical Data

Barrel / Probe Tip	
Max. Current Rating	20.0 A
Typical Continuity Resistance	≤ 3 mOhm
Connector / Probe Tip	
Max. Current Rating	1.0 A
Typical Continuity Resistance	≤ 30 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)	3.50 mm
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(Tolerances dependent on carrier material, test drilling is recommended)

Connector Pin Ø X / mm	Connector Pin Length Y / mm
0.5	6.0
0.7	7.0
1.0	2.5
1.0	4.0

## How to Order

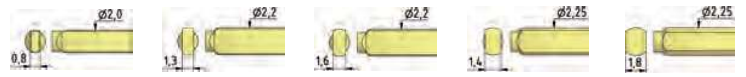
**5104 - Y - 15.75 N - Au - 2.2x 1.6 / 1.0x4.0**  
 1 2 3 4 5 6 7

1. Series 2. Tip Style 3. Spring Force 4. Tip Plating 5. Tip Diameter  
 6. Tip Thickness 7. Complete with Switching Element

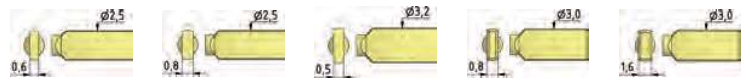
## Tip Style · Diameter · Plating



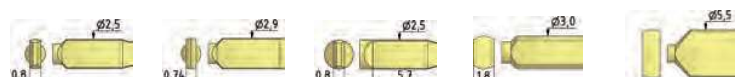
A	C	D	F	F
2.50 Au	2.40 Au	1.75 Au	1.80 Au	1.40 Au
3.00 Au	3.00 Au	1.80 Au	2.00 Au	
4.00 Au	4.00 Au	2.00 Au	3.00 Au	
	4.80 Au	2.30 Au	4.00 Au	
		3.00 Au		
		3.70 Au		



Y	Y	Y	Y	Y
2.00 x 0.80 Au	2.20 x 1.30 Au	2.20 x 1.60 Au	2.25 x 1.40 Au	2.25 x 1.80 Au



Y	Y	Y	Y1	Y1
2.50 x 0.60 Au	2.50 x 0.80 Au	3.20 x 0.50 Au	3.00 x 0.80 Au	3.00 x 1.60 Au



Y2	Y4	Y21	Y95	Y95
2.50 x 0.80 Au	2.90 x 0.74 Au	2.50 x 0.80 Au	3.00 x 1.80 Au	5.50 x 1.80 Au

