

Interface Contacts



Interface Probes are used to transmit power or data signals. These probes can quickly and easily connect fixtures to the electronics of the test machine.

Combining spring contacts and rigid contacts mounted on interface blocks, enables quick connection or separation of fixtures.

Technical data: spring interface contacts

Recommended minimum center (grid-pitch)

The standard installation pitch is 2.54 mm

Current Rating

The rated current of the spring-loaded Interface Probe is 3 A

Typical contact resistance

The typical resistance is 50m Ω

Materials and plating

The materials used for this type of Interface Probe are:

The barrel can be made of:

- Bronze, material with good hardness and good malleability
- Brass, material with excellent electrical conductivity and malleability, but not as hard as bronze
- Nickel silver, this alloy is widely used for its workability with punching techniques and for its good electrical characteristics

The barrel is gold plated.

The spring is made of:

- music wire (Harmonic steel)

The spring is gold plated to improve electrical conductivity.

The plunger can be made of:

- Beryllium-Copper (Be-Cu)

The plunger can be plated in gold.

Receptacle

It can be of various types depending on the type of connection:

- Solder, to solder the wire directly on the receptacle
- Crimp, for crimping the wire inside the receptacle
- Wire-Wrap, to wrap the wire around the square end of the receptacle
- Round Post, to insert the end of the receptacle directly in the housing hole

The height of the swelling on the receptacle (that determines the height of installation) and the position of the retaining marks or imprints (which allow for perfect and firm insertion) can be customized according to the project requirements.

Technical data: rigid interface contacts

Recommended minimum distance (grid-pitch)

The standard installation pitch for rigid contact interfaces is 2.54 mm

Current rating

Depending on the design and materials used, the rated current capacity of our contacts ranges from 10 to 20 A

Typical contact resistance

The typical resistance is 50mΩ

Materials and plating

The materials used for this type of Interface Probe are:

The barrel can be made of:

- Bronze, material with good hardness and good malleability
- Brass, material with excellent electrical conductivity and malleability, but not as hard as bronze

The barrel is gold plated.

Gold plating ensures excellent electrical conductivity and good protection from oxidation.

Types of rigid Contact Interface

Rigid Contact Interface probes are fully customizable. Among the most common we have:



Wire-Wrap

with Wire-Wrap termination 0.64 allow you to wrap the wire directly on pin



Solder

to solder the wire directly on the receptacle. These probes have a larger diameter than Wire-Wrap and as a result are often used to transmit power signals



Hooked

they have an hook on the body that allows for the fixing in the assembly holes



Knurled

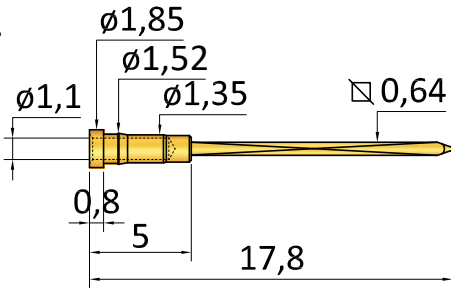
used to create interference in the assembly hole and secure a firm positioning of the interface Probe

Head shape

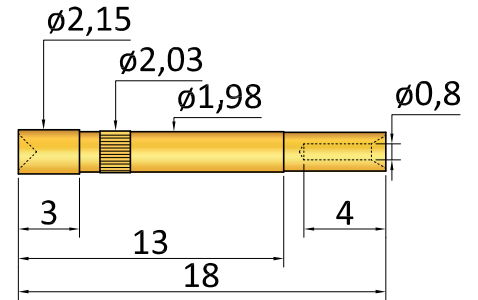
For the proper fit between the spring-loaded Interface Contact blocks and rigid Interface Contact blocks, the head style of each block is designed to match;

- Rigid Interface Contacts can have a hole, a countersink or a flat head;
- Spring Contact Interfaces usually have one of these head styles: nr. 02, 04, 06, 11, 13.

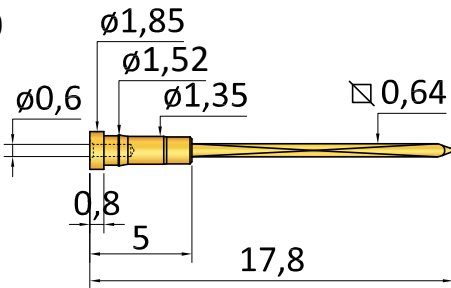
IP 300-301



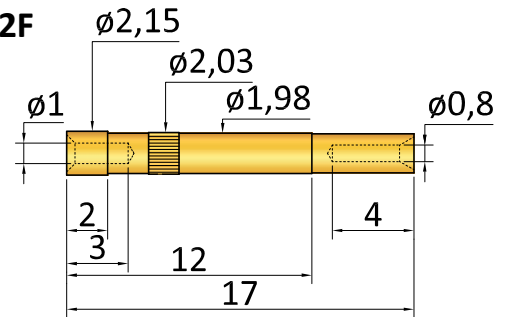
IP 254 SC 03C



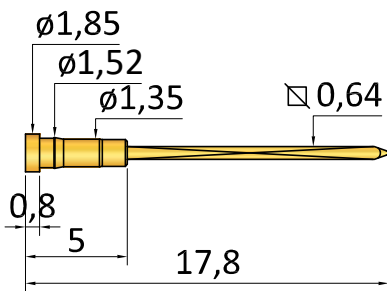
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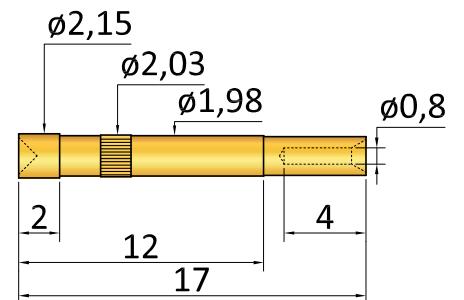
IP 254 SC 02F



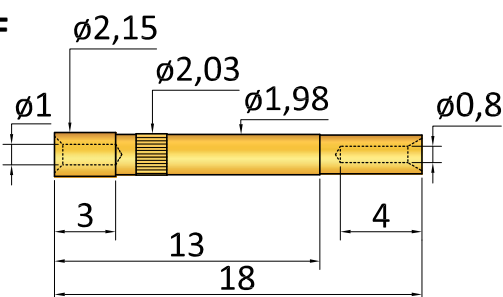
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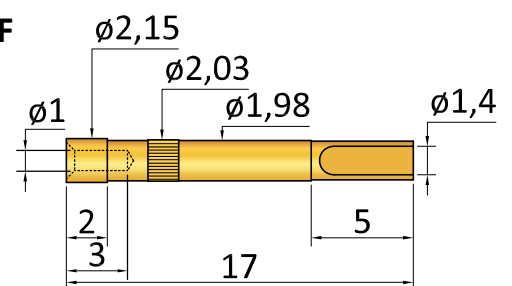
IP 254 SC 02C



IP 254 SC 03F



IP 254 S 02F



Materials

Interface contact: Brass, gold plated

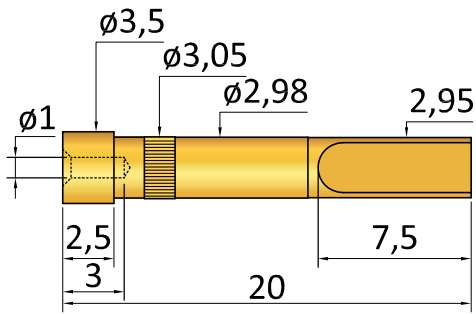
Technical Data

Typical contact resistance: <5 m Ω

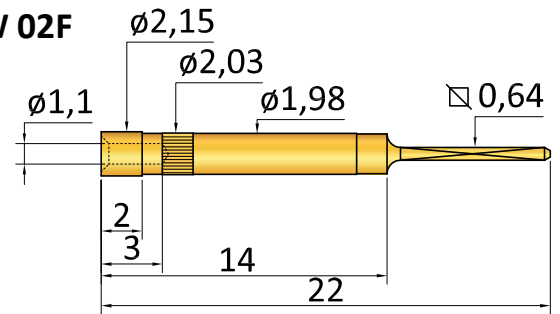
Hole size

For IP 300: $\varnothing 1,45 - \varnothing 1,47$
 For IP 254: $\varnothing 1,98 - \varnothing 1,99$

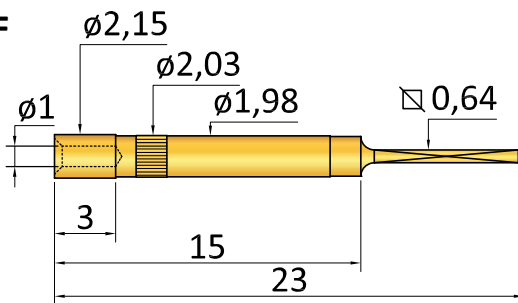
IP 113 S 02F



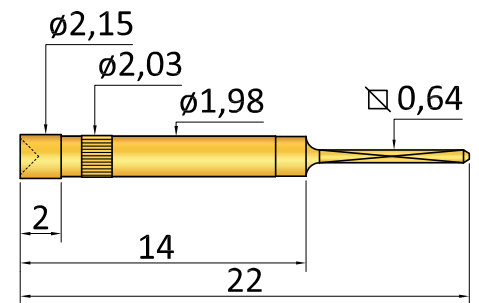
IP 254 W 02F



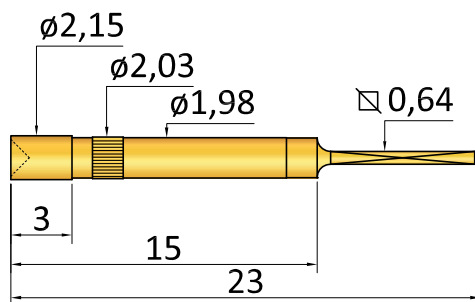
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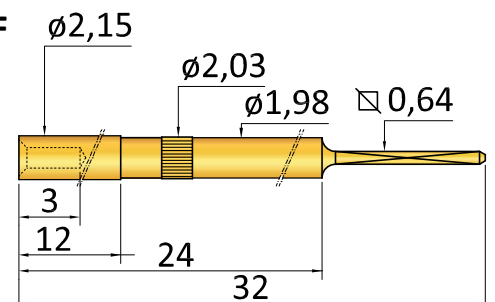
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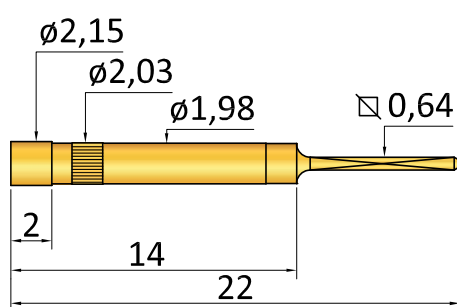
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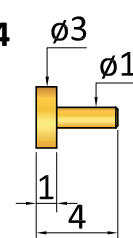
IP 254 W 12F



IP 254 W 02



IP 279 300 L4



Materials

Interface contact: Brass, gold plated

Technical Data

Typical contact resistance: <5 m Ω

Hole size

For IP 254: $\varnothing 1,98$ - $\varnothing 1,99$
 For IP 113: $\varnothing 3,00$ - $\varnothing 3,02$