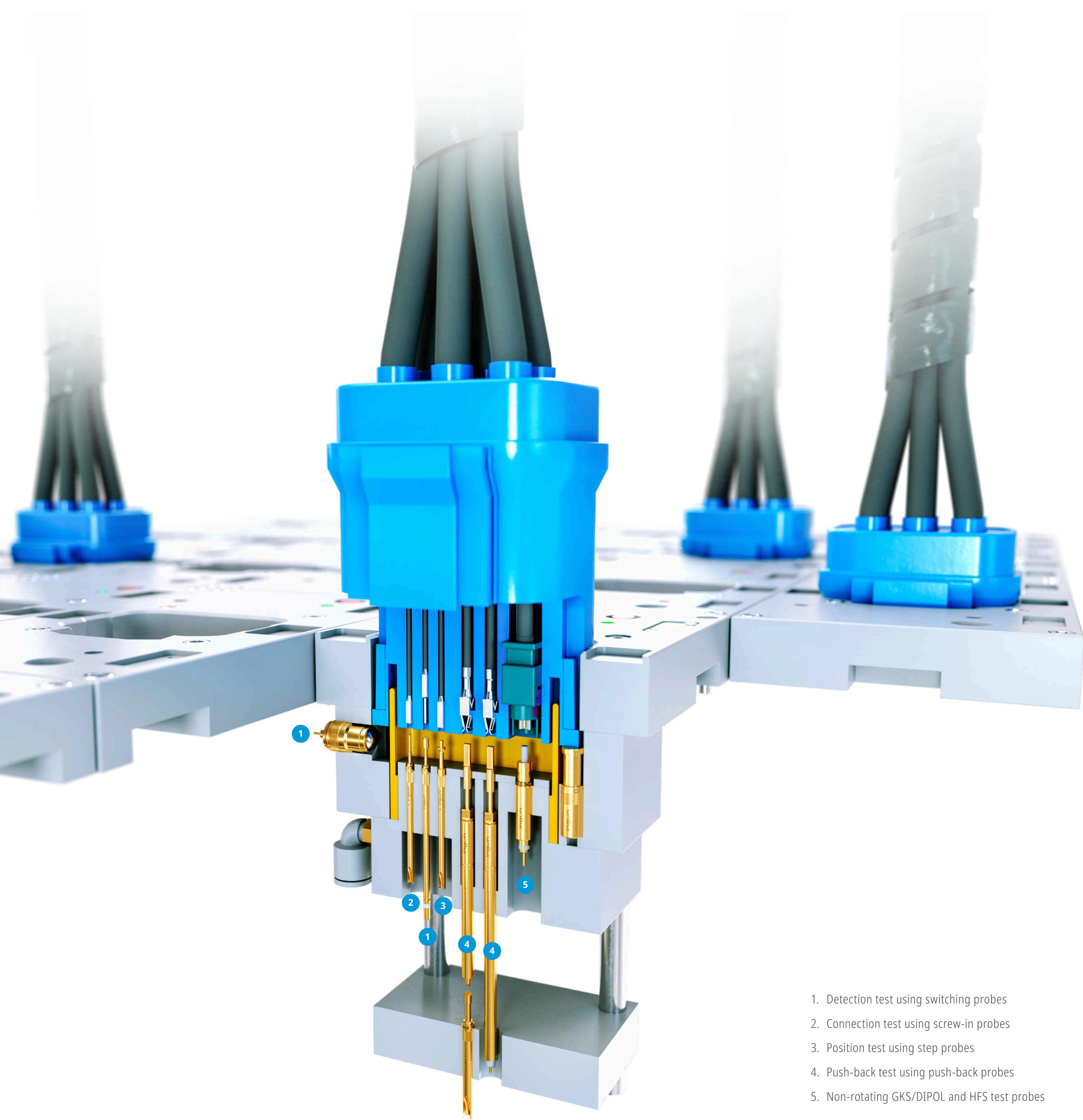


Solutions for

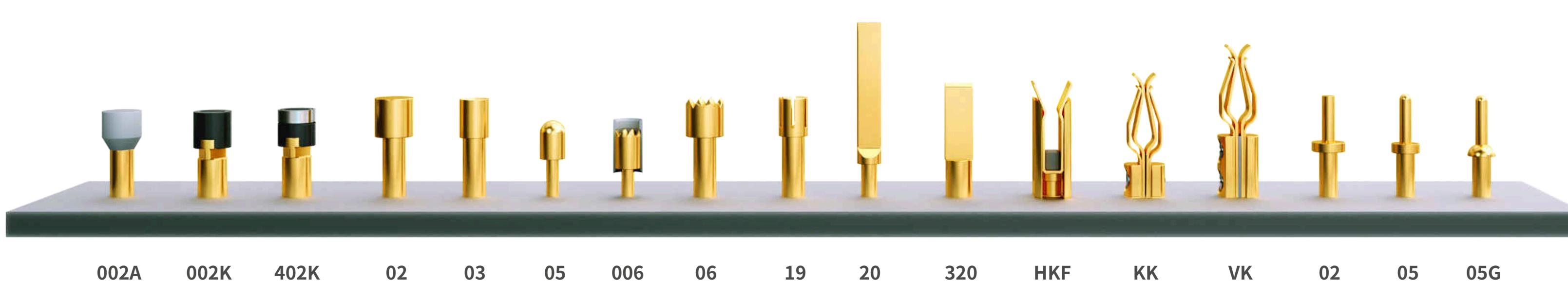
# WIRE HARNESS AND PLUG CONNECTOR TESTING

ingun®

versatile | precise | reliable



## SELECTION TIP STYLE OVERVIEW



Can't see the right tip style for your application?  
Contact us and speak to our specialists for customised test probes.

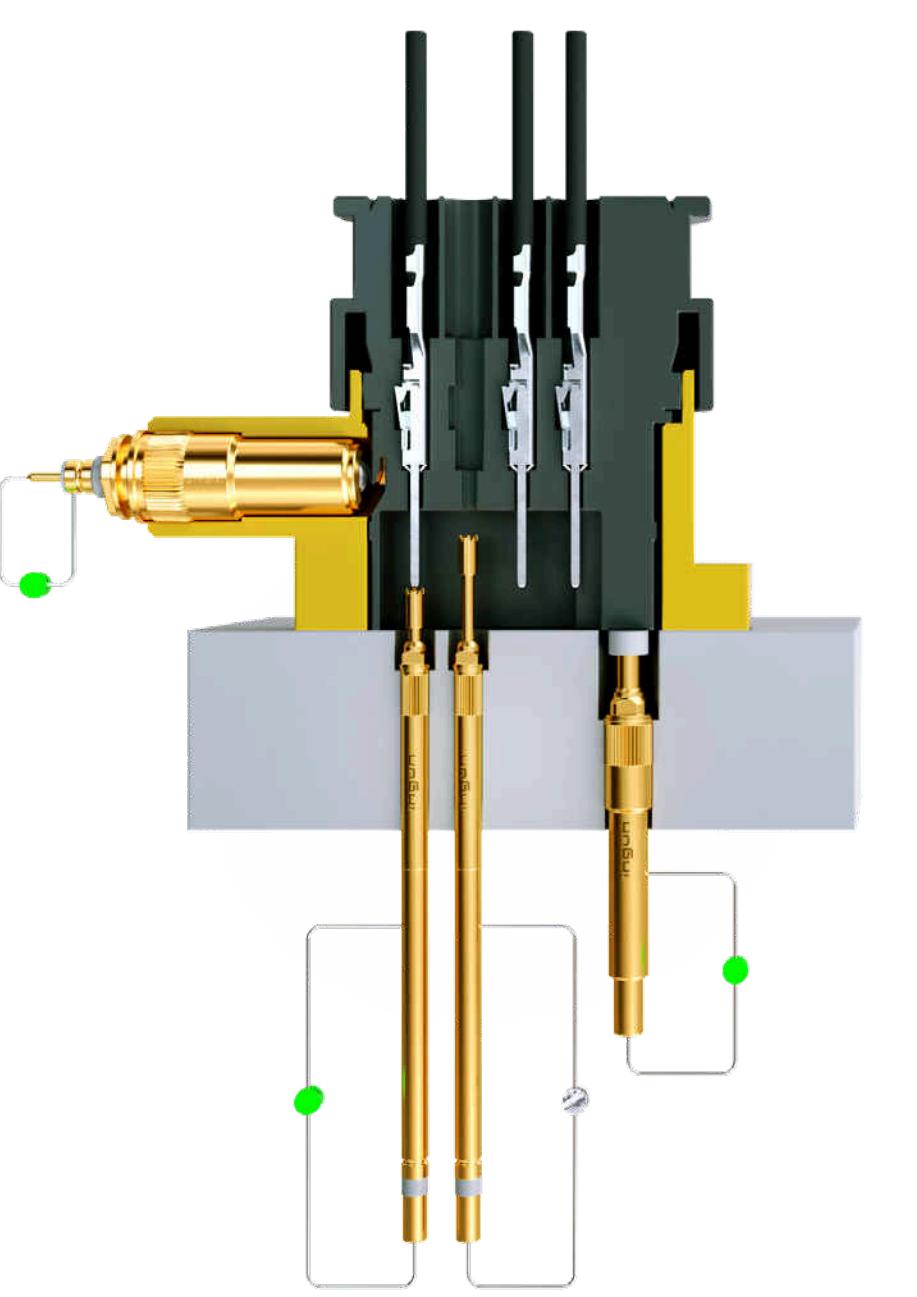


## CROSS REFERENCE

Compare existing products and find the right INGUN probe.

## SELECTION TEST PROBE

### 1 Detection test using switching probes



#### Applications

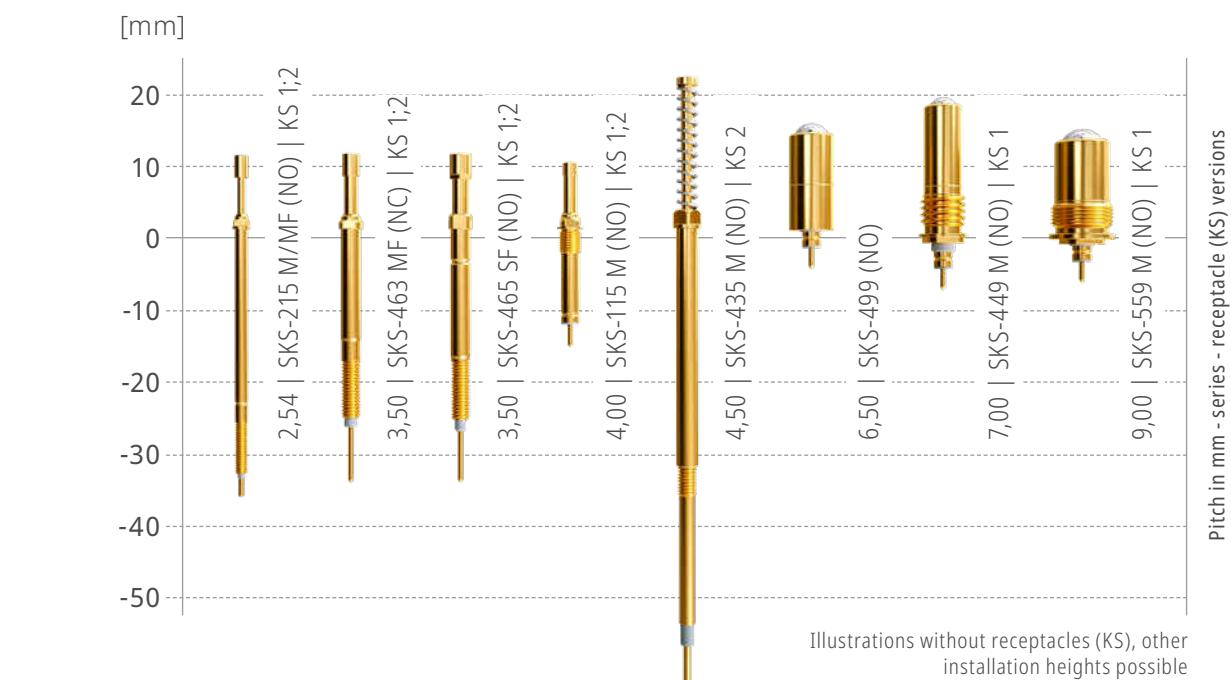
- Detection test for connectors in test modules or component checks
- Open-closed checks, e.g., test fixture open

#### Function

- SKS closes (normally open, NO) or opens (normally closed, NC) a circuit after a defined switching path

#### Examples of available switching probes

- Pitch in mm - series - receptacle (KS) versions (see selection of RECEPTACLES)



### 2 Connection test using screw-in probes



#### Applications

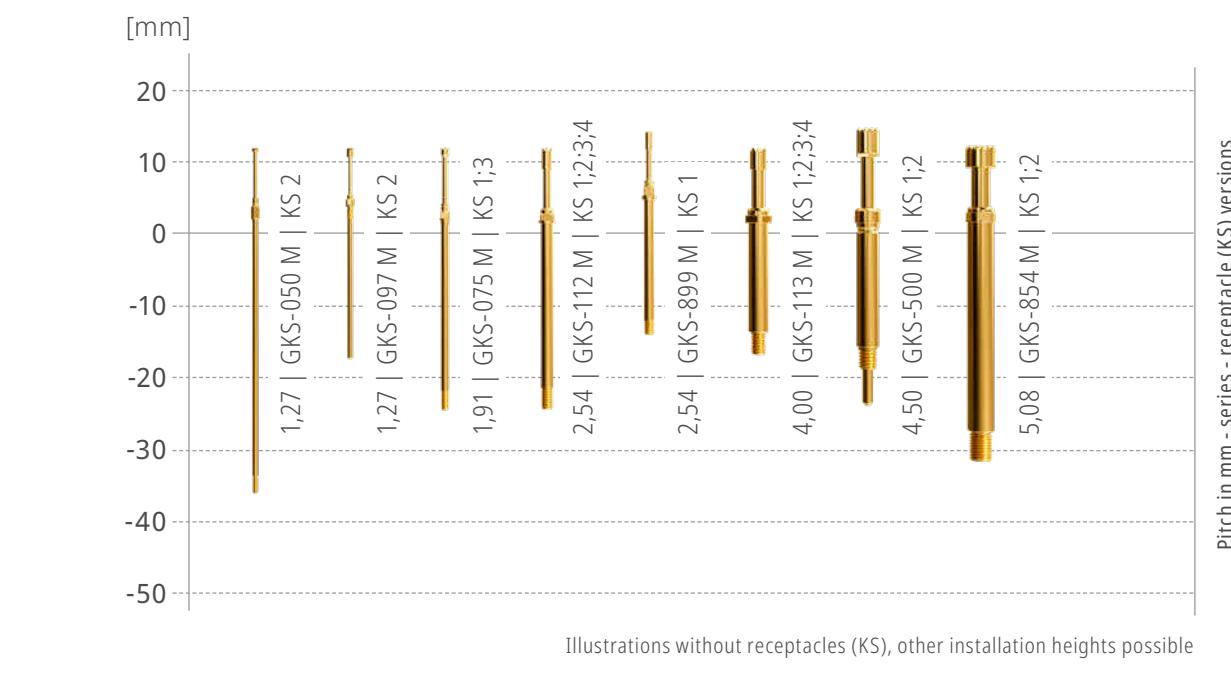
- Screw-in probes used to check the correct configuration of the contact terminals in the plug housing

#### Function

- Reliable contact with the contact terminal thanks to suitable tip styles
- By screwing in the test probe (GKS), migration out of the receptacle is reliably prevented, especially in case of possible axial forces

#### Examples of available screw-in probes

- Pitch in mm - series - receptacle (KS) versions (see selection of RECEPTACLES)



### 3 Position test using step probes



#### Applications

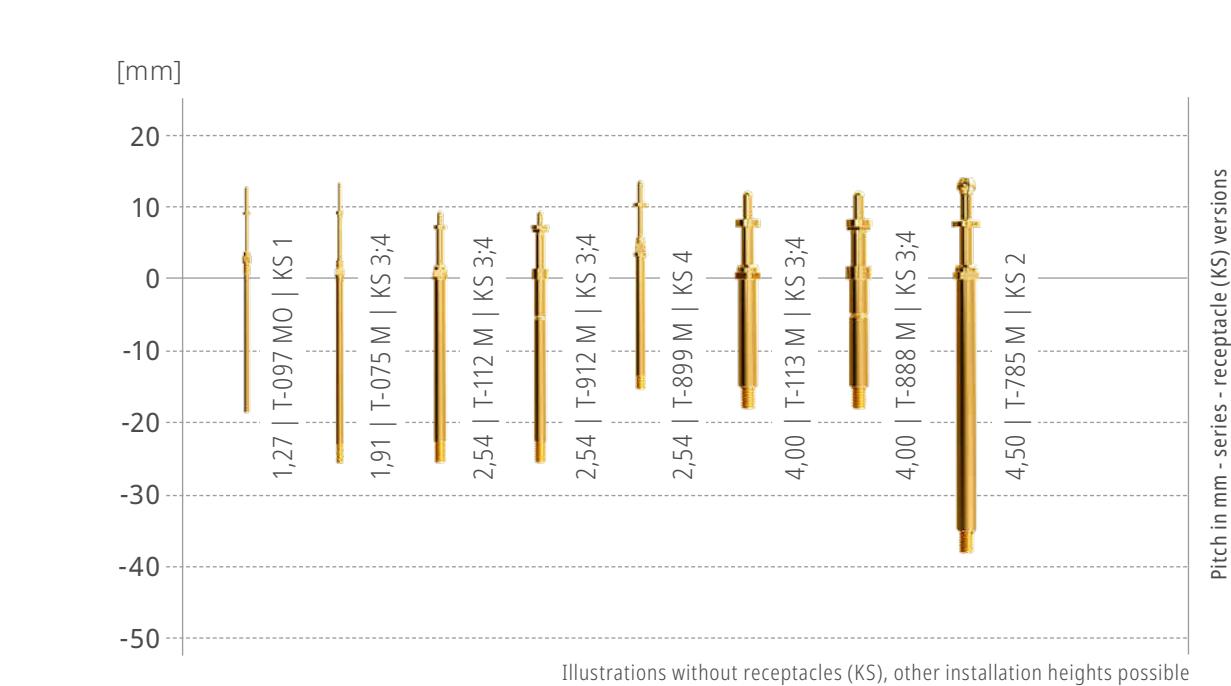
- Position test of the contact terminals (contact lamellae) in the connector housing
- Connection test of the cable connection and terminal position in the connector housing

#### Function

- Contact is only made if the terminal is in the correct position or if the wiring is correct

#### Example of available step probes

- Pitch in mm - series - receptacle (KS) versions (see selection of RECEPTACLES)



### 4 Push-back test using push-back probes



#### Application

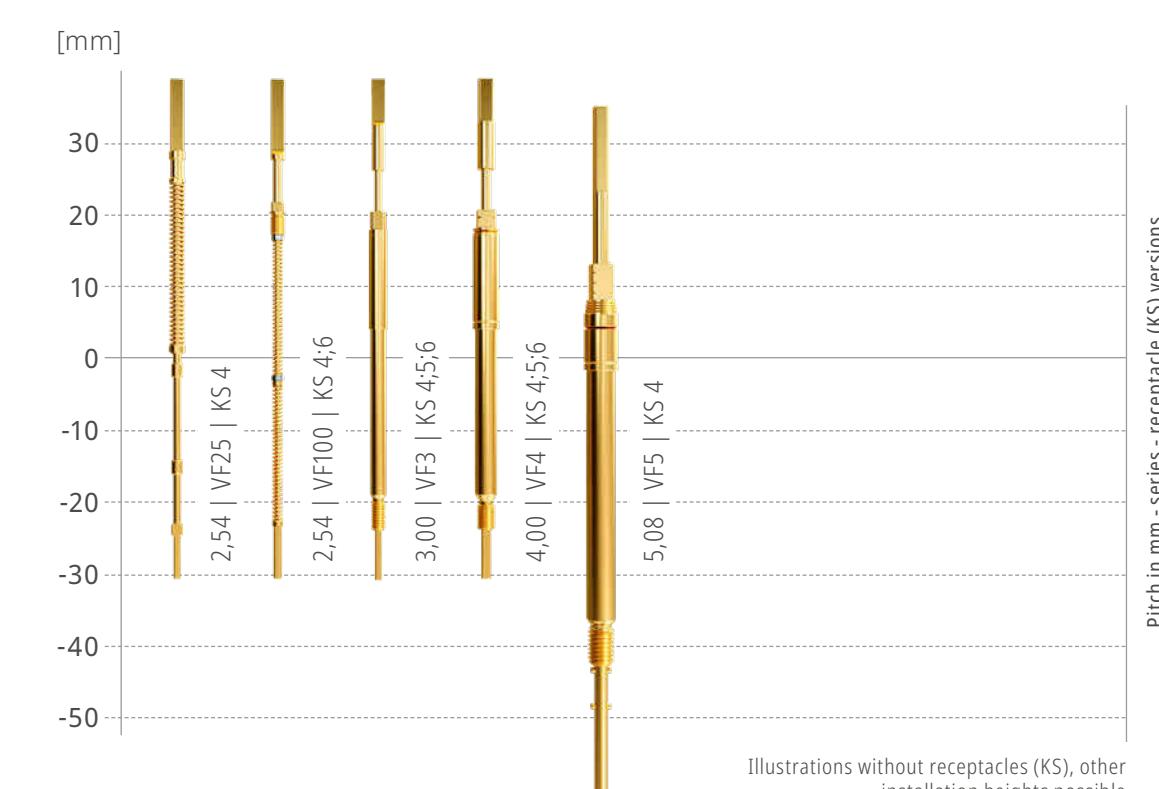
- Testing of the primary and / or secondary locking of the contact terminals in the connector housing

#### Function

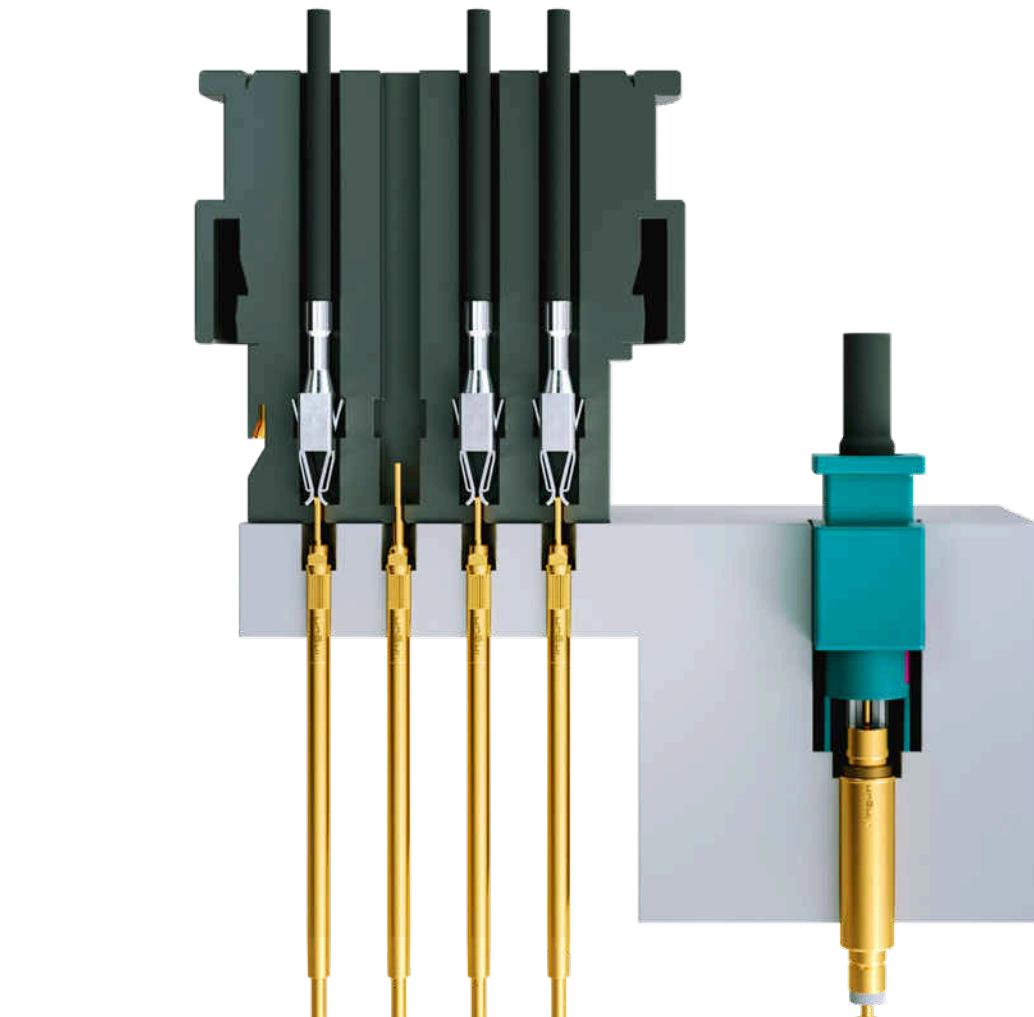
- The contact lamella remain in the correct position and the plunger is pushed onto a test probe, switching probe, or switch receptacle mounted underneath only when the primary and / or secondary locking is correct

#### Examples of available push-back probes

- Pitch in mm - series - receptacle (KS) versions (see selection of RECEPTACLES)



### 5 Non-rotating GKS/DIPOL and HFS test probes



#### Applications

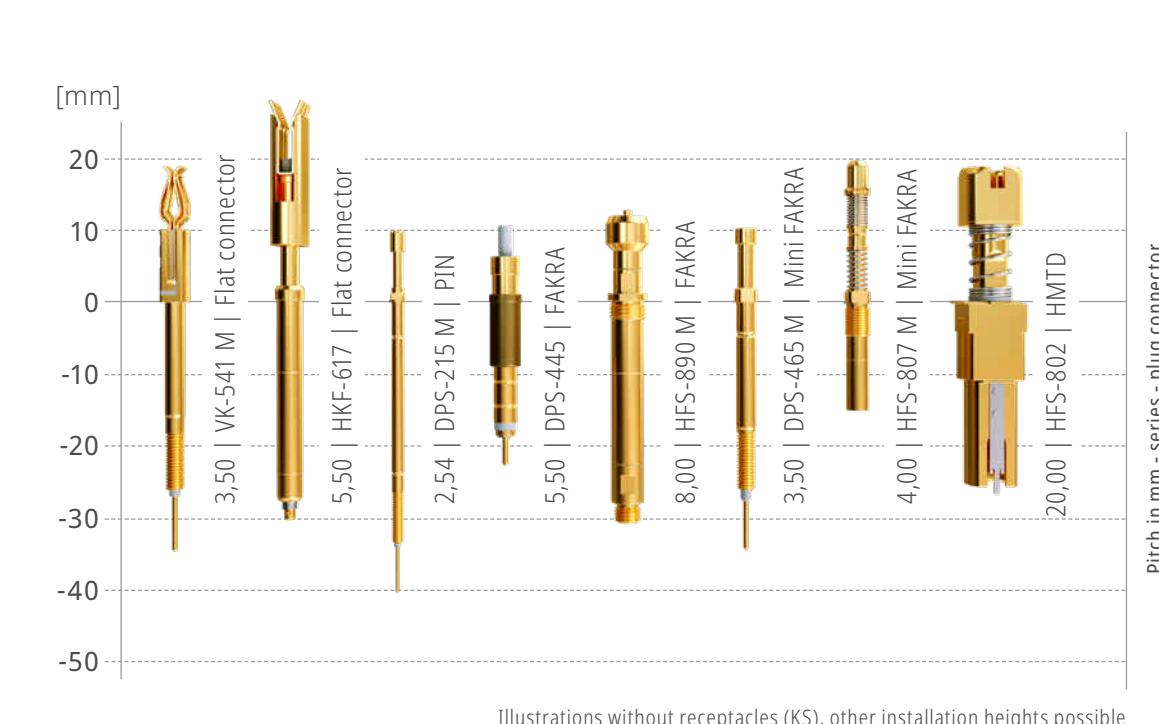
- Non-destructive testing of flat connectors or sockets (correctly aligned contacting)
- Radio frequency tests (HFS probes) and four-pole measurement (DPS probes) of RF connectors

#### Function

- The design of the non-rotating test probes ensures that the plunger head is guided, and rotation is not possible
- HFS and DPS test probes have a coaxial design with inner and outer conductors

#### Examples of available series

- Pitch in mm - series - plug connectors



## SELECTION RECEPTACLES



#### Installation and connection

- Receptacles hold the test probe securely in the test module and ensure the electrical connection. Cable probes have a thread and are screwed into the receptacle
- In case of maintenance, the test probes can be replaced quickly

#### Available receptacles and their function

Various receptacle (KS) versions are available:

- KS version 1: Version with knurl for particularly secure hold in the test module
- KS version 2: Version without knurl for pressing into the test module
- KS version 3: Airtight version of receptacle with knurl (only after solder connection) for leakage tests
- KS version 4: Airtight version of receptacle without knurl (only after solder connection) for leakage tests
- KS version 5: Airtight version of receptacle with knurl. Reduction of additional layer in test module
- KS version 6: Airtight version of receptacle without knurl. Reduction of additional layer in test module

Solutions for

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