INTERFACE CONTACT PINS

Interface contacts are often designed as a pair of contacts consisting of a rigid contact and a mating spring contact probe. Suitable for various standard interface systems, connector blocks, and fixture panels, they are also used for workpiece carriers or pallets, if inserted products must be supplied with electrical energy. Their purpose is to simply, quickly and reliably interconnect test adapters or interchangeable plates of in-line systems temporarily to a base station. In some applications, high frequency connections and/or compressed air or hydraulic supplies are added to the more conventional interconnections for signals and power.

FIXTEST’s interface pin type contacts cover rigid pins and spring loaded pins as well. In principle, they don’t differ from standard test probes. But due to their design they are mainly used for interfaces. Some are standardized for distinct systems. Key features are short design, short travel, current rating, and a constantly low electrical resistance. In this chapter you will also find completely assembled interface blocks. We would be happy to supply you with special designs or variants — just give us a call.
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### SERIES GR1

#### Technical Data
- Overall Length: 21.90 mm
- Minimum Centre Spacing: 2,54 mm
- Maximum Travel: 3,20 / 1,30 mm
- Working Travel: 2,00 / 0,86 mm
- Temperature Range: from –55°C up to +120°C
- Typical Resistance: 25 mΩ
- Current Load: 2,0 / 3,0 A

#### Materials
- Plunger: CuBe hardened, gold plated
- Barrel: Cu-alloy, gold plated
- Spring: Music wire, gold plated or silver plated

Special type for GenRad tester interface. Standard Receptacles of Series 21 and 211 can be used (see pages 29 and 57).

### SERIES GR2

#### Technical Data
- Overall Length: 22,30 mm
- Minimum Centre Spacing: 2,54 mm
- Maximum Travel: 2,60 mm
- Working Travel: 2,20 mm
- Temperature Range: from –55°C up to +120°C
- Typical Resistance: 25 mΩ
- Current Load: 2,0 / 3,0 A

#### Materials
- Plunger: CuBe hardened, gold plated
- Barrel: Cu-alloy, gold plated
- Spring: Music wire, gold plated or silver plated

Special type for GenRad tester interface. Standard Receptacles of Series 21 and 211 can be used (see pages 29 and 57).
This series is designed for a pitch grid ≥ 2.54 mm. Length and travel are similar to series 07, however series 07 is used for 1.27 mm pitch.

### Interface Pins

**SERIES 211 / 20.08.23Z050T310**

- **Overall Length:** 16.90 mm
- **Minimum Centre Spacing:** 2.54 mm
- **Maximum Travel:** 2.50 mm
- **Working Travel:** 1.70 mm
- **Temperature range from:** -55°C
- **Up to:** +120°C
- **Typical Resistance:** 25 mΩ
- **Current Load rated/max.:** 3.0 / 4.0 A

**Materials**
- Plunger: Cu-alloy, gold plated
- Barrel: Cu-alloy, gold plated
- Spring: Music wire, gold plated

### Technical Data

- **Spring Force (xx):**
  - Preload: 0.3 N, Rated Force: 1.0 N, Code: 10
  - Preload: 0.4 N, Rated Force: 1.2 N, Code: 12
  - Preload: 0.5 N, Rated Force: 1.6 N, Code: 16
  - Preload: 0.6 N, Rated Force: 1.8 N, Code: 18
  - Preload: 0.8 N, Rated Force: 2.5 N, Code: 25
  - Preload: 1.0 N, Rated Force: 3.0 N, Code: 30

**For XXLonglife-Nanoplating order as 221X**

**HP3070 MINT Pin**

**SERIES 211 / 20.08.23Z050T310.00-C**

**S 211.00-C**

- Open Crimp End
- **Overall Length:** 16.90 mm
- **Maximum Travel:** 2.50 mm
- **Working Travel:** 1.70 mm
- **Temperature Range:** from –55°C to +120°C
- **Typical Resistance:** 25 mΩ
- **Current Load rated/max.:** 3.0 / 4.0 A

**Materials**
- Plunger: CuBe, gold plated
- Barrel: Cu-alloy, gold plated
- Spring: Music wire, silver plated

**For XXLonglife-Nanoplating order as 20X**

**SERIES 211 / 20.08.23Z050T310.00-L**

**S 211.00-L**

- Solder Cup
- **Overall Length:** 33.25 mm
- **Maximum Travel:** 6.35 mm
- **Working Travel:** 4.20 mm
- **Temperature Range:** from –55°C to +120°C
- **Typical Resistance:** 20 mΩ
- **Current Load rated/max.:** 3.0 / 4.0 A

**Materials**
- Plunger: CuBe, gold plated
- Barrel: Cu-alloy, gold plated
- Spring: Music wire, silver plated
**INTERFACE PINS**

**FK-069** / **FK-070** / **FK-090** / **FK-386** / **FK-026** / **FK-027** / Wire-Wrap-Post (0.64 mm sq.)

**FK-069** / **FK-070** / **FK-090** / **FK-386**

FK-069 / FK-070 / FK-090 / FK-386

- **FK-069** Flat Front Fish hook
- **FK-070** Hollow Pin Fish hook
- **FK-090** Flat Front Fish hook
- **FK-386** Hollow Pin Press fit shaft

**FK-026** / **FK-027**

FK-026 / FK-027

- **FK-026** Flat Front Press fit shaft
- **FK-027** Hollow Pin Press fit shaft

**FK-026** / **FK-027**

- **FK-026** Flat Front Press fit shaft
- **FK-027** Hollow Pin Press fit shaft

**FK-026** / **FK-027**

- **FK-026** Flat Front Press fit shaft
- **FK-027** Hollow Pin Press fit shaft

**FK-090** / **FK-488**

FK-090 / FK-488

- **FK-090** Flat Front Fish hook
- **FK-488** Press fit knurl

**FK-090** / **FK-488**

- **FK-090** Flat Front Fish hook
- **FK-488** Press fit knurl

**FK-386**

FK-386

- **FK-386** Hollow Pin Press fit shaft

**FK-386**

- **FK-386** Hollow Pin Press fit shaft

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FK-069 / FK-070 / FK-090 / FK-386

- **FK-069** Flat Front Fish hook
- **FK-070** Hollow Pin Fish hook
- **FK-090** Flat Front Fish hook
- **FK-386** Hollow Pin Press fit shaft

**FK-026** / **FK-027**

- **FK-026** Flat Front Press fit shaft
- **FK-027** Hollow Pin Press fit shaft

**FK-090** / **FK-488**

- **FK-090** Flat Front Fish hook
- **FK-488** Press fit knurl

**FK-386**

- **FK-386** Hollow Pin Press fit shaft

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INTERFACE CONTACT BLOCKS

- 85-pin with Spring Loaded Contacts
- 85-pin with rigid Contact Terminals
- 102-pin with rigid Contact Terminals
Interface Blocks

The sample illustrations to the left show only a small selection from the numerous variants of the interface parts which FIXTEST supplies. Most of the types are based on the same carrier plate size, however, system specific variations do exist. Also contact assignment can vary regarding number of poles and type of interconnecting elements. Some interface blocks combine signal and high-current contacts, others integrate compressed air connectors when electrical and pneumatic supplies are necessary. Various test system manufacturers have established proprietary standards. Even some suppliers of in-line test systems dock their interchangeable plates to the base test system using standardized interface blocks. Our product range covers also those specialities. We are open to your custom requirements. Just give us a call.

A complete list of available types is available on request.

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