# J29 Twist-Pin Micro-Rectangular Connectors, 1.91 mm Pitch

Twist-pin contacts · 1.91 × 1.65 mm grid · 9–66 contacts · 5 A



| | |
|---|---|
| **Contact grid** | 1.91 × 1.65 mm |
| **Contacts** | 9 to 66 |
| **Current** | 5 A per contact |
| **Withstanding voltage** | 1500 VDC |
| **Temperature** | –55 to +125 °C (220 °C J29G) |
| **Mating cycles** | 500 |

## Key features

- Gold-plated twist pins (wire spring) with up to seven contact points, rigid socket contacts
- 1.91 mm contact pitch, 1.65 mm row spacing: denser than D-sub, 5 A per contact
- Shielded metal shells in eight sizes: 9, 15, 21, 25, 31, 37, 51 and 66 contacts
- Crimp, solder, straight PCB (1.91 × 1.65 grid) and right-angle PCB (1.91 × 2.54 or 3.82 × 2.54 grid)
- Standard, -A and -A1 flange widths; backshells with or without cable clamp
- Pre-wired versions with 300 mm leads as standard, other lengths on request
- J29G high-temperature version to 220 °C; J29M version

## Specifications

**Electrical**

| Parameter | Value | Condition |
|---|---|---|
| **Rated current** | 5 A | |
| **Contact resistance** | ≤ 10 mΩ | |
| **Withstanding voltage** | 1500 VDC | |
| **Insulation resistance** | ≥ 5000 MΩ / ≥ 1 MΩ | Normal / damp heat |

**Mechanical**

| Parameter | Value | Condition |
|---|---|---|
| **Durability** | 500 mating cycles | |
| **Vibration** | 10–2000 Hz, 196 m/s² | |
| **Shock** | 1200 m/s², 6 ms | |

**Environmental**

| Parameter | Value | Condition |
|---|---|---|
| **Operating temperature** | –55 to +125 °C | J29G: 220 °C |

## Versions

| Series code | Version | Notes |
|---|---|---|
| J29A | Standard version | |
| J29A-...-A / -A1 | Flange as wide as the rear body (-A), or intermediate width (-A1) | |
| J29M | Crimp and solder versions | |
| J29G | High-temperature version, 220 °C | |

## Shell dimensions

| Contacts | A (mm) | Mounting holes B (mm) |
|---|---|---|
| 9 | 26.1 | 20.1 |
| 15 | 31.6 | 25.6 |
| 21 | 37.3 | 31.3 |
| 25 | 42 | 36 |
| 31 | 47.8 | 41.8 |
| 37 | 53.5 | 47.5 |
| 51 | 52 | 46 |
| 66 | 61.5 | 55.5 |

Mounting holes Ø3.70 mm.

## How to order

### J29A-[contacts][type][termination][hardware]-[version][backshell]

Example: **J29A-25ZKN** — 25-contact receptacle with socket contacts, straight PCB tails on 1.91 × 1.65 mm grid

| Code segment | Options |
|---|---|
| Contacts | **9–66** 9, 15, 21, 25, 31, 37, 51, 66 |
| Type | **TJ** Plug with pin contacts |
| Type | **ZK** Receptacle with socket contacts |
| Termination | **(none)** Crimp (pre-wired) |
| Termination | **H** Solder |
| Termination | **N** Straight PCB, 1.91 × 1.65 mm grid |
| Termination | **W** Right-angle PCB, 1.91 × 2.54 mm grid |
| Termination | **WI** Right-angle PCB, 3.82 × 2.54 mm grid |
| Hardware | **L, P ...** Locking hardware types |
| Version | **(none)** Standard |
| Version | **A** Flange as wide as the rear body |
| Version | **A1** Intermediate flange width |
| Backshell | **D** With cable clamp (standard crimp/solder) |
| Backshell | **D1** Without cable clamp |
| Backshell | **D2** With cable clamp (-A1 versions) |

Pre-wired connectors are supplied with 300 mm leads of 0.20 mm², 250 V wire unless you specify otherwise.

Request a quote or drawing: https://sinoxh.com/request-a-quote/?product=J29