Six Pin Instrument Socket



Product Overview

DKKI 6-pin industrial socket provides reliable connectivity for measurement equipment in metal smelting operations. Featuring a robust zinc alloy body with powder coating, it withstands harsh industrial environments while maintaining stable performance across a -40°C to +125°C temperature range. This connector delivers 10A current capacity at 50V with IP65-rated dust and moisture protection. Its silver-plated copper contacts ensure optimal conductivity and low resistance, compatible with wires up to 2.5 mm². The polarized design prevents mis-mating, while the mechanical locking mechanism maintains secure connections even in high-vibration conditions. Compliant with UL and CSA standards, it offers dependable performance for steelmaking and foundry measurement applications.

Key Features

- Robust industrial-grade metal housing
- Lever-actuated locking mechanism
- Silver-plated copper contacts
- Corrosion-resistant powder coat finish
- 10A current rating per contact
- -40°C to +125°C operating range
- IP65 protection when mated
- Polarized keyed design
- 2.5 mm² wire capacity
- Polyamide insulation system

Why DKKI

- Proven success for over three decades
- ISO 9001:2015 certified quality
- In-house testing under real operating conditions
- Free expert support and comprehensive training
- On-site consulting and troubleshooting
- Fast order processing with flexible logistics
- Standard products, customizable options
- Transparent partnerships that build trust
- Proactive customer engagement

Application Areas

- Industrial automation systems requiring compact electrical connectors
- Control panels with low-voltage signal transmission needs
- Instrumentation setups demanding secure wire termination
- Machinery interfaces exposed to vibration and dust ingress
- Electrical enclosures needing IP-rated connector solutions

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Technical Specifications

Parameter	Description
Number of Contacts	Six female sockets for low-voltage use
Rated Current	Supports up to 10 amperes per contact
Conductor Cross-Section	Accepts wires up to 2.5 mm² size
Contact Material	Silver-plated copper alloy for conductivity
Housing Material	Powder-coated metal for rugged protection
Insulator Material	Polyamide for thermal and electrical insulation
Temperature Range	Operates from −40 °C to +125 °C safely
Protection Class (Unmated)	IP20 rating for basic contact protection
Protection Class (Mated)	IP65 sealing against dust and water ingress
Retention Mechanism	Locking device for vibration resistance