

TE Connectivity 5745187-1

TE Connectivity 5745187-1 Connector Instruction Manual

Model: 5745187-1 | Brand: TE Connectivity

INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of the TE Connectivity 5745187-1 connector. Please read these instructions carefully before proceeding with any installation or use to ensure optimal performance and safety.

PRODUCT OVERVIEW

The TE Connectivity 5745187-1 is a 25-position D-subminiature (D-sub) receptacle connector designed for vertical mounting on a Printed Circuit Board (PCB). It is part of the HD 20 product series and is used for reliable electrical connections in various industrial and electronic applications.



This image displays the TE Connectivity 5745187-1 D-sub connector. It is a 25-position receptacle designed for vertical mounting on a Printed Circuit Board (PCB). The connector features a metallic shell for shielding and black insulating material for the pin housing.

SPECIFICATIONS

Feature	Detail
Model Number	5745187-1
Manufacturer	TE Connectivity
Number of Positions	25
Connector Type	Receptacle (Female)

PCB Mount Angle	Vertical
Product Series	HD 20
Mating Connector Lock	Without

SETUP AND INSTALLATION

Proper installation is crucial for the reliable operation of the connector. Follow these general guidelines:

- Preparation:** Ensure the PCB is clean and free of debris. Verify that the PCB layout matches the connector's footprint.
- Orientation:** Carefully align the connector pins with the corresponding holes on the PCB. The vertical mount design requires precise alignment.
- Mounting:** Gently press the connector onto the PCB until it is fully seated. Avoid excessive force to prevent damage to pins or the PCB.
- Soldering:** Solder each pin to its respective pad on the PCB. Use appropriate soldering techniques and equipment to ensure strong, reliable electrical connections. Inspect all solder joints for quality.
- Inspection:** After soldering, visually inspect the connector for proper seating, alignment, and solder joint integrity.

***Note:** For detailed PCB design and soldering recommendations, refer to industry standards and best practices for electronic component assembly.*

OPERATING INSTRUCTIONS

Once properly installed, the TE Connectivity 5745187-1 connector functions as a passive component, facilitating electrical or data transmission between connected devices. No specific operational steps are required for the connector itself beyond its initial installation.

- Connection:** Connect the mating D-sub cable or device to the receptacle. Ensure proper alignment and gentle insertion.
- Disconnection:** To disconnect, grasp the mating connector firmly and pull straight out. Avoid pulling on the cable itself.

MAINTENANCE

The TE Connectivity 5745187-1 connector is designed for long-term reliability with minimal maintenance. However, periodic inspection can help ensure continued performance.

- Cleaning:** If necessary, gently clean the connector contacts with a lint-free cloth and a suitable electronic contact cleaner. Ensure the cleaner is non-residue and safe for plastics.
- Inspection:** Periodically inspect the connector for any signs of physical damage, corrosion, or loose connections. Ensure the solder joints remain intact.
- Environment:** Operate the connector within its specified environmental conditions (temperature, humidity) to prevent premature wear or failure.

TROUBLESHOOTING

If you experience issues with your TE Connectivity 5745187-1 connector, consider the following common troubleshooting steps:

- **No Connection/Intermittent Connection:**
 - Verify that the mating connector is fully and correctly inserted.
 - Inspect the connector pins and receptacles for bent or damaged contacts.
 - Check the solder joints on the PCB for cold joints, cracks, or shorts.
 - Ensure the mating cable or device is functional.
- **Physical Damage:**
 - If the connector housing or pins are visibly damaged, replacement may be necessary.
 - Avoid applying excessive force during connection or disconnection.

If issues persist after performing these steps, consult a qualified technician or contact TE Connectivity support.



WARRANTY AND SUPPORT

For specific warranty information regarding the TE Connectivity 5745187-1 connector, please refer to the official TE Connectivity website or contact their customer support directly. Warranty terms typically cover manufacturing defects under normal use conditions.

For technical support or further assistance, please visit the [TE Connectivity website](#) or contact their authorized distributors.

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Related Documents - 5745187-1

	<p>TE Connectivity High Performance Interconnect (HPI) Connectors - Datasheet & Selection Guide</p> <p>Comprehensive guide to TE Connectivity's High Performance Interconnect (HPI) wire-to-board connector system. Includes detailed specifications, product matrix for part selection, dimensions, applications, cable assemblies, and FAQs.</p>
	<p>TE Connectivity Sensor Application Guide: Comprehensive Sensor Solutions</p> <p>Explore TE Connectivity's extensive range of sensor solutions with this application guide. Discover pressure, humidity, temperature, ultrasonic, photo optic, position, vibration, and force sensors for diverse industries and applications.</p>



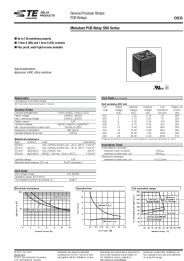
Quick Reference Guide
SIM Card Connector Series

Explore TE Connectivity's comprehensive range of SIM Card Connectors, including Push-Pull, Block, Push-Push, and Tray types. This guide details features, benefits, applications, and specifications for Mini (2FF) and Micro (3FF) SIM cards, essential for mobile devices.

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[TE Connectivity SIM Card Connector Series: Quick Reference Guide](#)

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[TE Connectivity SRU Series Miniature PCB Relays Datasheet](#)

Technical datasheet for TE Connectivity's SRU Series Miniature PCB Relays, detailing specifications, features, applications, and ordering information for up to 12A switching capacity.



[TE Connectivity T92 Series Two-Pole Power Relay Datasheet](#)

Comprehensive datasheet for TE Connectivity's T92 Series General Purpose High Power PCB Relays. Details features, applications, technical specifications, contact ratings, coil data, insulation, dimensions, and product code structures.



[TE Connectivity AMPMODU MTE Interconnect System Quick Reference Guide](#)

A quick reference guide for the TE Connectivity AMPMODU MTE Interconnect System, detailing its features, applications, product specifications, part numbers for receptacles, headers, and housings, as well as application tooling.