

WAGO WAGO-xxxx

WAGO 221 Splicing Connector Instruction Manual

Model: WAGO-xxxx

INTRODUCTION

This manual provides essential information for the safe and effective use of WAGO 221 Series COMPACT Splicing Connectors. These connectors are designed for fast, reliable, and safe connection of all common wire types, including solid, stranded, and fine-stranded conductors, ranging from 12 to 24 AWG.

The WAGO 221 connectors feature operating levers for easy, tool-free wire insertion and removal, making them suitable for a wide range of electrical applications.

SAFETY INFORMATION

- Always disconnect power to the circuit before installing or removing connectors. Failure to do so may result in electric shock or injury.
- Ensure that the wire gauge and type are compatible with the connector's specifications (12-24 AWG).
- Do not exceed the maximum voltage (450 V / 1000 V for signs and fixtures) or current (32 A) ratings.
- Verify that wires are fully inserted and levers are securely closed to ensure a proper connection.
- Do not use damaged connectors.
- Consult local electrical codes and regulations for proper installation practices.

PRODUCT OVERVIEW

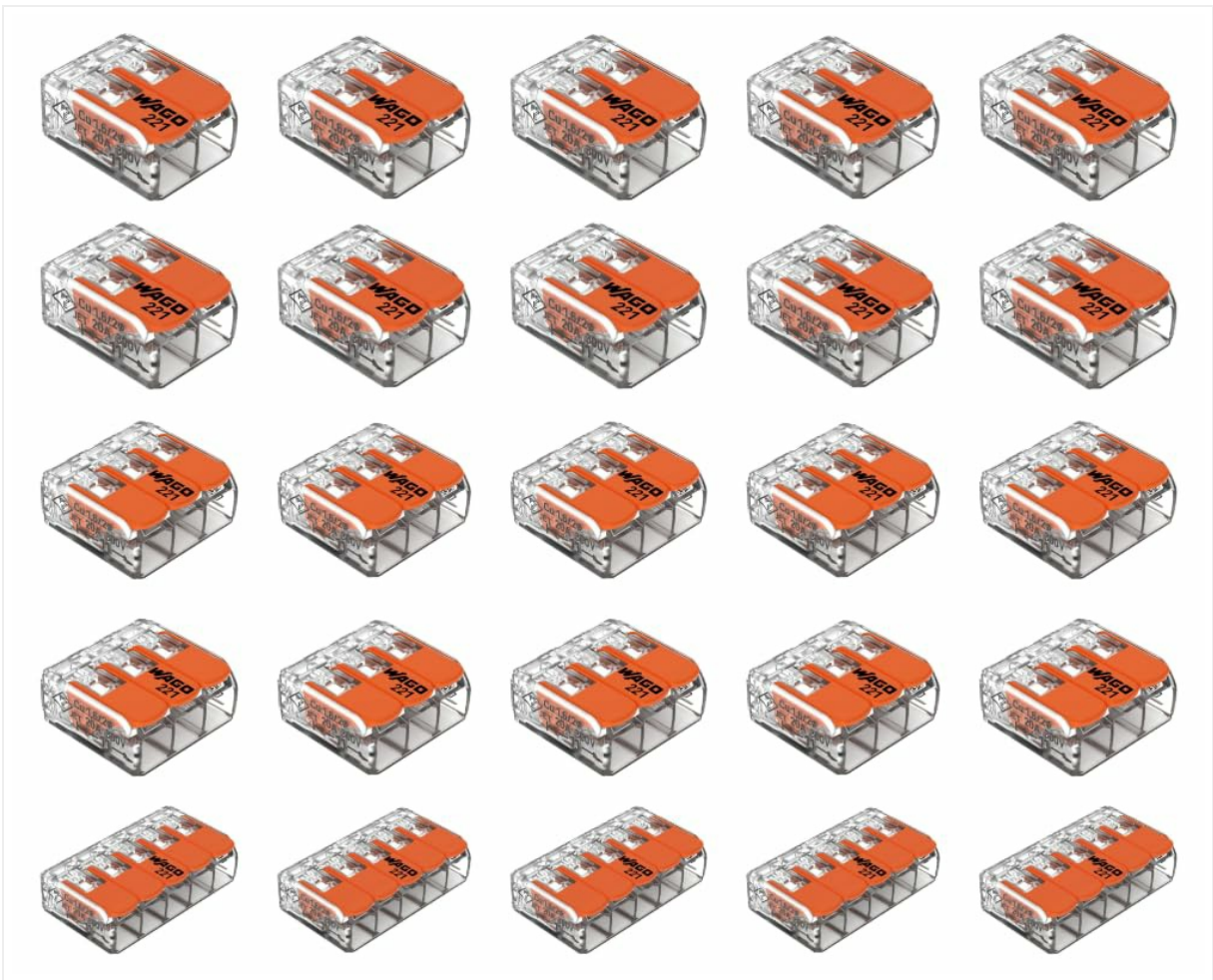


Image: An assortment of WAGO 221 Splicing Connectors. The image displays multiple units of 2-port, 3-port, and 5-port connectors. Each connector features a transparent housing, allowing visibility of the wire connection, and bright orange operating levers. These connectors are designed for quick and secure electrical connections.

SETUP

Before connecting wires, ensure they are properly prepared according to the following steps:

1. **Power Disconnection:** Turn off the power supply to the circuit you are working on. Verify with a voltage tester.
2. **Wire Stripping:** Carefully strip the insulation from the end of each wire. The recommended strip length is 11 mm (0.43 inches). Use a wire stripper to avoid damaging the conductor.
3. **Inspect Wires:** Ensure the stripped wire ends are clean, straight, and free from frayed strands.

OPERATING INSTRUCTIONS

Follow these steps to make a secure electrical connection using WAGO 221 Splicing Connectors:

1. **Open Lever:** For each wire entry port you intend to use, lift the orange operating lever to its fully open (vertical) position.
2. **Insert Wire:** Insert the stripped end of the prepared wire completely into the open port. Ensure no bare conductor is visible outside the connector and that the insulation reaches the internal stop.
3. **Close Lever:** Push the orange operating lever down firmly until it clicks into its closed (horizontal) position. This secures the wire connection.

- 4. **Verify Connection:** Gently tug on the wire to confirm it is securely held by the connector. The transparent housing allows for visual inspection of the connection.
- 5. **Repeat:** Repeat steps 1-4 for all other wires you wish to connect to the splicing connector.

MAINTENANCE

WAGO 221 Splicing Connectors are designed for maintenance-free operation once installed correctly. However, consider the following for optimal performance and longevity:

- **Storage:** Store unused connectors in a clean, dry environment, away from direct sunlight and extreme temperatures.
- **Inspection:** Periodically inspect installed connectors for any signs of damage, discoloration, or loose connections, especially in high-vibration or high-temperature environments.
- **Cleaning:** If necessary, gently wipe the exterior of the connectors with a dry, lint-free cloth. Do not use abrasive cleaners or solvents.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Wire does not insert fully.	Lever not fully open; wire end is bent or frayed; insulation not stripped to correct length.	Ensure lever is vertical; straighten or re-strip wire to 11 mm (0.43 in).
Lever does not close securely.	Wire not fully inserted; incorrect wire gauge.	Push wire in further until it hits the stop; verify wire is within 12-24 AWG range.
Loose connection after installation.	Lever not fully closed; wire not stripped correctly; damaged connector.	Ensure lever is horizontal and clicked; re-strip and re-insert wire; replace connector if damaged.

SPECIFICATIONS

- Model:** WAGO 221 Series COMPACT Splicing Connector
- Wire Compatibility:** All wire types (solid, stranded, fine-stranded)
- Wire Gauge Range:** 12-24 AWG
- Rated Voltage:** 450 V (1000 V for signs and fixtures)
- Rated Current:** 32 A maximum
- Strip Length:** 11 mm (0.43 inches)
- Max. Operating Temperature:** 85°C
- Material:** Transparent housing, Metal clamping unit
- Color:** Transparent with Orange levers
- Manufacturer:** WAGO 211 Series
- Origin:** Made in Germany


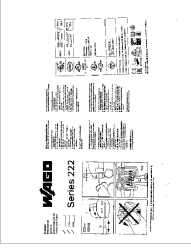
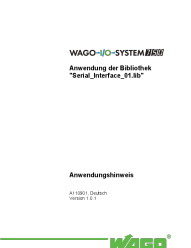

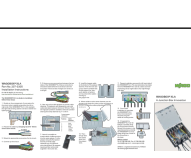
WARRANTY AND SUPPORT

For information regarding product warranty, technical support, or further assistance, please refer to the official WAGO website or contact their customer service department. Ensure you have your product model number (WAGO-xxxx) available when seeking support.

WAGO is committed to providing high-quality electrical connection solutions. For additional resources, visit the [WAGO Store on Amazon](#).

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Related Documents - WAGO-xxxx

	<p>WAGO 2773 Series PUSHWIRE® Splicing Connectors Technical Specifications & Overview</p> <p>Discover the WAGO 2773 Series PUSHWIRE® splicing connectors, offering a compact and safe solution for connecting solid and stranded conductors. This document details features, technology, model specifications, and application guidelines.</p>
	<p>WAGO Series 222 Splicing Connectors - Technical Data and Instructions</p> <p>Comprehensive information on WAGO Series 222 splicing connectors, including technical specifications, safety guidelines, and installation instructions for various conductor types. Features include voltage ratings, conductor cross-section compatibility, current ratings, and compliance certifications.</p>
	<p>WAGO Anwendungshinweis: Serial_Interface_01.lib für Feldbus-Controller Serie 750</p> <p>Anwendungshinweis von WAGO zur Bibliothek Serial_Interface_01.lib. Detaillierte Anleitung für Feldbus-Controller Serie 750, Konfiguration serieller Klemmen (RS232C, TTY, RS485/RS422) und Beispielanwendungen.</p>
	<p>WAGO DALI Configurator Software Manual</p> <p>This manual provides detailed instructions for the WAGO DALI Configurator software, enabling users to manage DALI lighting networks and the WAGO DALI Multi-Master Module 753-647. It covers installation, user interface navigation, device addressing, group/scene management, configuration, diagnostics, and commissioning.</p>
	<p>WAGOBOX® XLA (207-3305) Installation Guide</p> <p>Detailed installation instructions for the WAGOBOX® XLA (Part No. 207-3305), a general-purpose electrical enclosure designed for WAGO 222, 773, 2273, and 221 series connectors, including maintenance-free installation guidelines.</p>



[WAGO I/O System 750: Controller PFC200 Manual](#)

Comprehensive manual for the WAGO I/O System 750, featuring the PFC200 controller with 2x Ethernet, RS-232/-485, CAN, CANopen, and PROFIBUS Master capabilities. This guide covers hardware description, function descriptions, mounting, commissioning, diagnostics, and service information.