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Wire & Cable Termination

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FREE TECHNICAL SUPPORT

METECON heavy duty connectors

AUTOMATIONDIRECT.com

Klemsan

BRYANT®

JOKARI® original

Zoller+Fröhlich

ZIPport

Weidmüller

WAGO

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Multi-Wire Connectors

Multi-wire connectors provide a secure, fast, and easy way to make machine or system electrical connections. Multi-wire connectors are assembled from components that might include a housing (hood and base or coupler), connector inserts, conductor terminations (for crimped contacts), and fittings. Connectors are available in sizes 3A, 10A, 16A, 6B, 10B, 16B, 24B, and 32B.

Inserts

A wide selection of male and female inserts are available to be used with corresponding multi-wire connectors. These inserts are suitable for both stranded and solid conductors, come in various pole configurations ranging from 2 poles (plus ground) to 108 poles (plus ground), and support termination sizes from 26 to 6 AWG, 10 to 80 Amps.

METE and ZIPport inserts are crafted from UL 94 V-0 rated self-extinguishing thermo-plastic resin, with a maximum temperature rating of 125°C (257°F). They are available in both screw terminal and crimp-style contact block connections. The contacts are made from copper alloy with a hard silver- or gold-plated finish.

Hoods and Housings

The housings for multi-wire connectors consist of a hood that mates with a base or a coupler. They are made of die-cast aluminum with a polyester powder finish or from self-extinguishing thermoplastic and are ideally suited for use in industrial applications. A single- or double-lever locking system assures coupling stability and protection against accidental opening.

- Innovative design
- Electrical connection with protective ground
- High mechanical strength and vibration resistance ensured by locking levers
- Threaded cable passages with NPT threads
- Available with top entry and side entry cable passages
- Available in gray or black color options

Conductor Termination

Standard contacts (screw and crimp) have a gold or silver-plated surface. During the contact's lifetime, a silver-plated surface generates a black oxide layer due to its affinity to sulphur. This layer is conductive, smooth, and very thin and is partly interrupted when the contacts are mated and non mated, thus guaranteeing very low contact resistance.

Screw Termination

Screw terminations consist of contacts made of silver-plated copper alloy. Proper conductor installation requires no special preparation when using inserts with the wire clamp terminals (no wire ferrules).

Crimp Contact Termination

Crimp terminations consist of contacts made of silver-plated copper alloy. A perfect crimp connection is gas-tight, corrosion-free, and is equal to a cold weld of the parts being connected. Wires to be connected must be carefully matched with the correct wire size of crimp contacts.

Accessories

A wide range of accessories are available to provide IP protection and support for cable connections to housings or bases, including crimping tools, cable glands (IP66 & IP68), DIN rail mounting kits, PG to NPT thread adapters, and more.

METE CON heavy duty connectors



ZIPport AUTOMATIONDIRECT



For the latest prices, please check AutomationDirect.com.

Why use a multi-wire connector?

1. Facilitating Modular Designs:
Multi-wire connectors are vital for modular systems, allowing for easy assembly and disassembly of components.

2. Increasing Reliability:
Properly designed multi-wire connectors create consistent connections, reducing the likelihood of failures due to vibration, etc.

3. Protection from environmental factors:
Many multi-wire connectors are designed to protect connections from moisture, dust, and other environmental hazards.

4. Enhancing Safety:
Multi-wire connectors provide secure and reliable connections, minimizing the risk of loose wires, short circuits, and electrical hazards.

5. Improving Organization:
These connectors create a neat and organized wiring layout, making it easier to trace circuits, troubleshoot problems, and perform maintenance.

6. Simplifying Complex Wiring:
In applications with numerous wires, multi-wire connectors consolidate connections, reducing clutter, and simplifying installation.



Splicing Connectors

WAGO Compact 221 Series LEVER-NUTS®

The 221 series LEVER-NUTS adds a lever to WAGO's CAGE CLAMP® technology allowing for easy opening and closing of the cage clamp. You can quickly and easily connect all conductor types of different cross sections. With the transparent body, it is easy to inspect the strip length and verify the conductor is completely inserted. The 221 series connectors accommodate solid, stranded, and fine-stranded conductors in two variants from 12-24 AWG and 10-20 AWG.



- Compact and user friendly
- Can handle up to 20A or 30A currents
- Available in 2-, 3-, 5-, and 10-wire connectors
- Lever technology eliminates tool use
- Allows for mixing of solid and stranded wire types
- Built-in test points



WAGO Inline 221 Series LEVER-NUTS®

The 221 series inline splicing connector combines all the trusted advantages of the 221 series compact splicing connectors into a slim design. Offering unsurpassed simplicity, speed and reliability, the 221 series provides universal conductor connections – with lever technology that eliminates tools – while offering a visibly secure conductor contact.

- Has all the advantages of the 221 series
- Can handle up to 20 Amps
- Slim design minimizes dimensions for installation in tight spaces
- Use for connecting solid, stranded, & fine-stranded conductors from 12 to 20 AWG in the feedthrough direction

WAGO 2773 Series PUSHWIRE®

The 2773 series splicing connectors utilize WAGO's innovative CAGE CLAMP® technology. Simply push a conductor into the unit and you're done! Rigid conductors, such as solid, stranded, ferruled, and fine-stranded conductors can be terminated by simply pushing them in – no operating tool needed.



- No twisting, crimping, or taping required
- Takes less time to terminate wires
- One spring per conductor provides independent contact force against a copper current bar
- Allows for mixing of solid and stranded wire types
- Copper conductors only
- Can handle up to 20 Amps

Klemsan MPB4 Series Push-In Lever Connectors



The Klemsan MPB4 series push-in lever connectors are compact, tool-free wiring devices engineered for fast, reliable conductor terminations in industrial, commercial, and residential electrical installations. MPB4 connectors use a patented push-in mechanism that eliminates the need for screwdrivers and reduces assembly time.

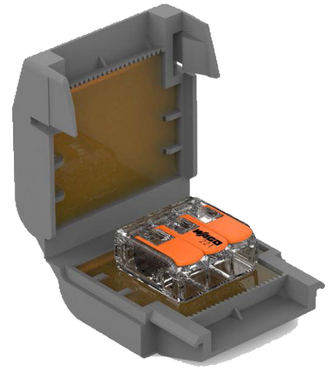
- No tools required — push-in connection for solid and ferruled conductors without opening the lever
- Built-in stripping guide
- Integrated test pin ports for quick in-panel measurements without disconnection
- Accepts solid, stranded, and ferruled conductors

For the latest prices, please check AutomationDirect.com.

Splicing Connector Accessories

WAGO Gelbox (207 Series)

The WAGO 207 series Gelbox delivers reliable, IPX8-rated moisture protection for critical electrical connections in demanding environments. Designed for seamless use with 221 series LEVER-NUTS® and 2773 series PUSHWIRE® splicing connectors, it features an advanced internal sealing gel that fully encapsulates conductors to guard against water intrusion, corrosion, and environmental exposure. Ideal for direct burial, outdoor applications, and more, the Gelbox ensures long-term performance and peace of mind where durability matters most.

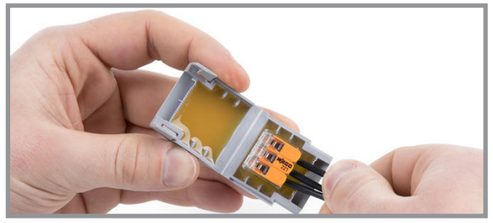


- Compact enclosure
- Tool-free installation
- Serviceable design allows for connectors to be accessed if needed
- Maintenance-free protection
- Silicon-free gel



Step 1:

Open the Gelbox at the side latches.



Step 2:

Place the wired connector in the Gelbox.



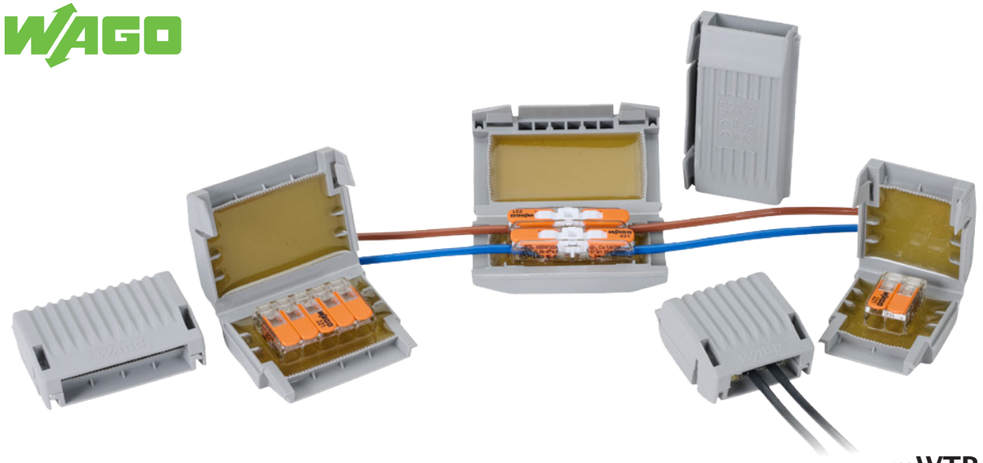
Step 3:

Close the Gelbox.



Servicing:

Open the Gelbox, remove gel from the connector, open the connector, and connect new components to the cable.



Wire End Connectors

Complete panel wiring with ferrules, terminals, and butt connectors that connect conductors to termination points or other wires. Choose from a variety of shapes, insulated styles, and wire sizes to suit the application.



Insulated Ferrules

Prepare stranded conductors for secure termination with insulated ferrules. Tin-plated copper tubes crimp onto wire ends to keep strands together at the connection.

- Single-wire and twin-wire styles in standard and DIN colors
- JOKARI and Weidmuller linked ferrule strips for compatible automatic crimping tools

Ring Terminals



Secure wires at screw or bolt termination points. A closed ring fits over the fastener, while the insulated collar crimps onto the conductor.

Fork Terminals



Connects wires at screw or bolt terminals with an open-fork design. Multiple conductor and fork sizes accommodate a range of panel wiring needs.

Butt Connectors



Join two wire ends in a compact, inline connection. Crimp both ends of the insulated sleeve for wiring extensions and repairs.

Disconnect Terminals



Mating tabs and receptacles separate easily for service. Fully and partially insulated styles are available, with piggyback models providing two connections from one terminal.

Pin Terminals



Terminate wires at set screws, clamps, and compatible terminal blocks. Partially insulated pin terminals provide a defined insertion point and a secure crimped conection.

Bullet Terminals



Connect male bullets and female receptacles for wiring that can be separated when needed. Choose fully or partially insulated designs to suit the application.

Terminal Size Options: Ring, fork, butt, disconnect, pin, and bullet styles offer color-coded options for 20-18, 16-14, and 12-10 AWG conductors.

Crimping Tools

Complete the connection with a suitable crimping tool. Fixed-die, interchangeable-die, and self-adjusting designs accommodate a variety of conenctor types and wire sizes.



For the latest prices, please check AutomationDirect.com.

Pin and Sleeve Devices

Bryant® Pin and Sleeve Watertight Plugs, Connectors, Receptacles and Inlets

Bryant IEC 60309 pin and sleeve devices are rugged nonconductive plugs, connectors, receptacles, and inlets designed to ensure reliable electrical continuity even in extreme environments. The tough insulated PBT housing, neoprene sealing glands, and a keyed interlocking shroud ensure that these devices will withstand impact and abuse, seal out contaminants and moisture, and prevent accidental disconnection while under load.

The design of these pin and sleeve devices ensure that devices of different amperage and voltage ratings cannot be connected together, conforming to IEC 60309-1 and IEC 60309-2 international standards.

Pin and sleeve plugs (male cord-end connectors) and inlets (male panel-mounted connectors) feature a solid brass pin construction that provides long life and reliable electrical contact. Connectors (female cord-end connectors) and receptacles (female panel-mounted connectors) feature spring-loaded gasketed covers for watertight protection when not in use. Cord-end connectors also have gland nuts and bodies with opposing thread profiles to prevent wiring pull-out and reduce wear.



- IP67 environmental ratings
- Impact- and corrosion-resistant insulated non-metallic housings
- Sequential contact engagement to prevent a momentary over-voltage
- External strain relief
- Glandless water ingress protection
- Color-coded for each specific voltage
- Phase contacts are recessed in deep insulated chambers to minimize arcing
- Self-adjusting contacts provide accurate pin insertion, producing self-cleaning effect as pin is inserted and withdrawn from sleeve
- Ground contact in forward position ensures first make, last break, neutral contact connects next, then phase contacts
- Terminal screws are backed out for easy assembly

Bryant® Portable Outlet Back Boxes



- Back box features heavy duty cast aluminum construction with a durable enamel finish
- Adapter plates allow receptacles and inlets to be mounted to back boxes
- Cast aluminum direct mount back boxes permit receptacles to be mounted directly to box without adapter plate
- Closure caps provide a watertight seal for male plugs and flanged inlets when not mated

Bryant® Closure Caps for Inlets and Plugs

Bryant closure caps are used to provide watertight seals for inlets and plugs.

Closure Cap used with Inlets



Closure Cap used with Plugs



Plugs, Connectors, and Receptacles

Bryant® Locking Electrical Plugs, Connectors and Receptacles

BRYANT®
TECH·SPEC®

Bryant locking or lock-twist electrical plugs and connectors have a tough impact- and chemical-resistant nylon housing with a double-wall construction. The locking plugs are designed to work together with either a Bryant locking connector or receptacle. The plugs and female connections have a curved feature that allows the twist-lock action of the connections.

The locking receptacles consist of a single receptacle designed to connect and lock with Bryant locking plugs. These single receptacles feature a combination of back and side wiring terminals for convenient wiring.

- Internal Triple-Gripper ® cord clamp with unique "radius teeth" design automatically centers and secures the cord
- Double-wall construction plugs and connectors
- Combination Phillips/slotted captive terminal screws
- Plugs/connectors have a transparent terminal cover with clear window and teardrop wiring pockets to ease insertion of stranded wire and make solid connections
- Copper wire only
- Plugs and connectors have captive, quick-thread assembly screws backed out, ready for assembly
- Plugs and connectors have integral thermoplastic elastomer dust seal that surrounds cord to help prevent moisture and contaminants from entering the wiring chamber
- Plug has nickel-plated neutral blade for easy identification
- Amperage, voltage and NEMA configuration imprinted on face for easy identification
- UL and CSA certifications





Bryant® Straight Blade Plugs, Connectors and Receptacles

Bryant straight blade electrical plugs, connectors and receptacles have basically the same specs and features as the locking versions mentioned above, except that the plug blades and female connections are straight and do not lock.

Receptacles are industrial grade duplex straight blade devices that allow straight blade plugs to be connected.

- Straight blade plugs, connectors and receptacles have the same features shown above for locking types
- Duplex receptacles face is molded of toughened nylon to resist breakage

Bryant® Watertight Plugs and Connectors

Bryant high-visibility yellow watertight plugs and connectors provide the same reliable service as the standard straight blade devices, but with added protection when paired together. These plugs and connectors provide excellent resistance to moisture and temperature.

- High-visibility yellow thermoplastic elastomer housing
- Rugged PBT interiors provide excellent resistance to moisture and temperature
- New cone seal prevents water from accumulating at the cable entrance
- Tongue and groove plug to connector sealing system for optimum protection
- Nickel-plated contacts and blades
- Gotcha ring for superior strain relief
- Stainless steel captive assembly screws
- Accepts multiple cord diameters
- Individual neoprene bushings provide watertight sealing
- Keyed body and interior for proper alignment
- Recommended where moisture exists or frequent washdown occurs
- All exposed materials are UV stabilized
- Meets NEC requirements for "Wet & Damp Locations"
- Meets OSHA requirements
- UL, CSA, NSF and NEMA certifications





Bryant® Corrosion-Resistant Duplex Receptacles

Also available are corrosion-resistant duplex receptacles for use with Bryant watertight outlet boxes.

Wiring Device Accessories

BRYANT®
TECH·SPEC®

Bryant accessories for wiring devices provide solutions for installations and safety.

Bryant® Lockout PlugBox Devices

OSHA approved lockout/tagout devices allow you to safely perform maintenance

- OSHA lockout/tagout regulation 29CFR 1910.147 compliance
- Protect against unexpected start-up of equipment during maintenance and repair work
- Plugs are locked safely in sturdy enclosure
- Discourages unauthorized use of tools and equipment
- Stores and protects plug when equipment is not in use or during relocation. Stores on cable when not in use.
- UV-stabilized polypropylene housing
- High-visibility red for easy identification
- Available in 3 sizes to accommodate a full range of plug designs and ratings
- Openings for attachment of identification tag





Bryant® Angle Adapter

- Converts 20A and 30A nylon locking plugs and connectors into space-saving angle devices
- Adapters permit wire to exit parallel to the receptacle; eliminating space needed for wire to bend

5200 and 7200 Series Weather Protective Boots

- Use with Bryant 15 and 20 Amp straight blade plugs and connectors and 15 Amp locking plug and connectors (5200 series)
- Use with Bryant Triple Gripper® 20 and 30 Amp nylon plugs and connectors (7200 series)
- Help prevent moisture, dust and other contaminants from infiltrating plugs and connectors
- Chemical/UV resistant thermoplastic elastomer construction (7200 series)
- Available in high visibility yellow or standard black
- Excellent ozone and weather resistance
- Resistant to deterioration by oils and heat
- Sealing ring seals connector when not mated (7200 series)
- IP55 suitability when installed and used properly with plug and connector body combinations
- Ribbed exterior for firm grip





Bryant® Stainless Steel Cover Plates

Stainless steel outlet cover plates are available for straight blade and locking type single or duplex receptacles.

Bryant® Portable Outlet Boxes

- Non-conductive, impact resistant thermoplastic elastomer boxes reduce the exposure to potential hazards
- Automatic centering strain relief cord clamps
- NEMA Type 1, IP44
- For use with 15A or 20A duplex receptacles [not included]
- Flip seals protect against wet environments and moisture when closed

