

BE-846

Generic Duplex 3/8" Wire Box Connector BE-846 Instruction Manual

Model: BE-846

1. INTRODUCTION

This instruction manual provides comprehensive guidance for the safe and effective installation and use of the Generic Duplex 3/8" Wire Box Connector, model BE-846. This connector is designed to secure two electrical cables through a single knockout in an electrical box, ensuring a secure and compliant connection.

Please read this manual thoroughly before installation to ensure proper usage and to prevent potential hazards. Keep this manual for future reference.

2. PRODUCT FEATURES

- **UL Listed:** Certified for safety and quality standards.
- **Concrete Tight:** Achieves a concrete-tight seal when properly taped.
- **Cable Compatibility:** Suitable for 14/2 - 10/3 with ground cable sizes, or cables with a diameter ranging from 0.375" to 0.625".
- **Single Screw Design:** Features a single screw for secure cable clamping.
- **Locknut Included:** Comes with a locknut for secure attachment to the electrical box.
- **Duplex Design:** Allows two cables to pass through a single 1/2" knockout.

3. SAFETY INFORMATION

WARNING: Electrical work can be dangerous. Always follow local electrical codes and safety regulations. If you are unsure about any part of the installation, consult a qualified electrician.

- Always turn off power at the circuit breaker or fuse box before beginning any electrical work.
- Verify that the power is off using a voltage tester before touching any wires.
- Wear appropriate personal protective equipment (PPE), such as safety glasses and insulated gloves.
- Ensure all connections are tight and secure to prevent arcing or short circuits.
- This connector is intended for dry locations only.

4. SETUP AND INSTALLATION

The Generic Duplex 3/8" Wire Box Connector is designed for use with MC, AC, NM, and FLEX cables. It fits a standard 1/2" trade size knockout.

Required Tools:

- Screwdriver (flathead or Phillips, depending on screw type)
- Pliers or channel locks (for tightening locknut)
- Voltage tester
- Electrical tape (if concrete-tight seal is required)

Installation Steps:

1. **Prepare the Electrical Box:** Ensure the electrical box has a 1/2" trade size knockout available. Remove the knockout if it is still in place.
2. **Insert the Connector:** Insert the threaded end of the duplex connector into the knockout hole from the outside of the electrical box.
3. **Secure with Locknut:** From inside the electrical box, thread the included locknut onto the connector's threaded end. Tighten the locknut securely using pliers or channel locks to firmly attach the connector to the box.
4. **Prepare Cables:** Strip the outer jacket of the two cables (MC, AC, NM, or FLEX) according to the manufacturer's recommendations, ensuring enough conductor length for connections within the box. The connector accommodates 14/2 to 10/3 gauge cables or cables with a diameter between 0.375" and 0.625".
5. **Insert Cables:** Feed both prepared cables through the openings of the duplex connector. Ensure the cables pass smoothly and are seated correctly within the connector's clamping mechanism.
6. **Tighten Clamping Screw:** Use a screwdriver to tighten the single clamping screw on the connector. Tighten until the cables are firmly secured and cannot be pulled out. Do not overtighten, as this can damage the cable insulation.
7. **Ensure Concrete Tightness (Optional):** If a concrete-tight seal is required, apply electrical tape around the connector and the knockout opening after installation, as per local code requirements.



Figure 1: Front view of the Generic Duplex 3/8" Wire Box Connector, showing the single clamping screw and threaded end with locknut.

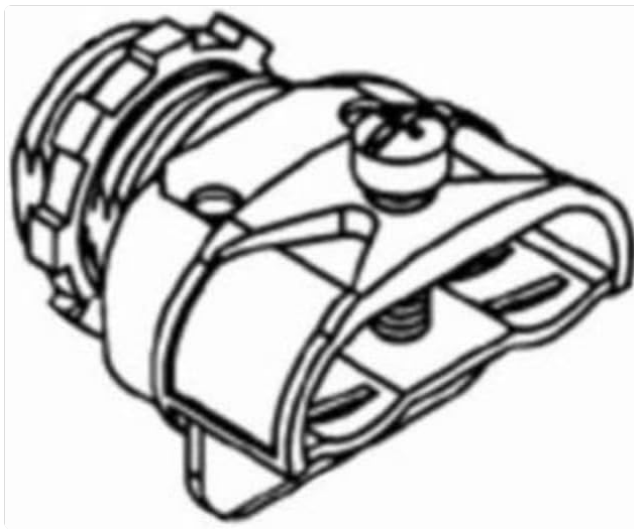


Figure 2: Technical diagram illustrating the internal structure and cable clamping mechanism of the connector.

5. OPERATING INSTRUCTIONS

Once properly installed, the Duplex Wire Box Connector functions as a secure entry point for two electrical cables into an electrical box. Its primary operation involves maintaining a firm grip on the cables, preventing them from being pulled out or damaged, and ensuring electrical continuity and safety within the enclosure.

No further operational steps are required after successful installation and tightening of the clamping screw and locknut.

6. MAINTENANCE

The Generic Duplex 3/8" Wire Box Connector is designed for long-term, maintenance-free operation once correctly installed.

- **Periodic Inspection:** Periodically inspect the connector and surrounding cables for any signs of damage, corrosion, or loosening. This should be done during routine electrical system checks.
- **Tightness Check:** If any loosening is observed, ensure power is off before re-tightening the clamping screw and locknut.
- **Cleaning:** If necessary, clean the exterior of the connector with a dry cloth. Do not use liquids or abrasive cleaners.

7. TROUBLESHOOTING

Most issues related to this connector stem from improper installation.

Problem	Possible Cause	Solution
Cables are loose in the connector.	Clamping screw not tightened sufficiently. Incorrect cable size used.	Turn off power. Re-tighten the clamping screw. Ensure cables are within the specified diameter range (0.375" to 0.625").
Connector is loose on the electrical box.	Locknut not tightened securely.	Turn off power. Re-tighten the locknut using pliers or channel locks.

Problem	Possible Cause	Solution
Cannot insert cables into the connector.	Cables are too large for the connector.	Verify cable diameter is within the specified range (0.375" to 0.625"). Use appropriate connector for larger cables.

8. SPECIFICATIONS






Specification	Detail
Model Number	BE-846
Brand	Generic
Material	Zinc (Metal Alloy)
Color	Zinc
Style	One Screw Duplex
Finish Type	Unfinished
Installation Type	Set Screw
Specification Met	UL Listed
Manufacturer	Best Electrical
Item Package Quantity	5 (for this specific package)
Number Of Holes	2 (for cables)
Measurement System	Inch
Usage	Dry Location Only
Cable Compatibility	MC/AC/NM/FLEX Cables, 14/2 - 10/3 AWG, or 0.375" to 0.625" diameter
Knockout Size	1/2" Thread Trade Size

9. WARRANTY AND SUPPORT

For warranty information and customer support regarding the Generic Duplex 3/8" Wire Box Connector (Model BE-846), please contact the retailer or the manufacturer, Best Electrical, directly. Details regarding specific warranty periods and support procedures are typically provided at the point of purchase or on the manufacturer's official website.

Always retain your proof of purchase for any warranty claims.

Related Documents - BE-846

	<p>Somatherm SUMO Straight Brass Fitting for 40mm PE Pipe - 1 1/4\" Male Connector</p> <p>Discover the Somatherm SUMO straight brass fitting, engineered for 40mm PE pipes with a 1 1/4\" male connection. This durable fitting features easy installation, optimal sealing with an integrated EPDM O-ring, and anti-tear protection. It is ACS certified for sanitary water systems and offers high resistance, with a 5-year warranty. Ideal for residential heating and sanitary water distribution networks.</p>
	<p>Somatherm Raccord Laiton Droit SUMO Ø20mm Mâle 1/2 - Brass PE Pipe Connector</p> <p>Discover the Somatherm SUMO brass straight connector (Ref. 846-20-155) for Ø20mm PE pipes with a 1/2\" male outlet. Features easy installation, optimal sealing, high resistance, and ACS certification for sanitary water and heating systems.</p>
	<p>Outsunny 846-168V50/V60/V90 Outdoor Gas Grill Operating Instructions</p> <p>Comprehensive operating instructions for the Outsunny 846-168V50, V60, and V90 outdoor gas grills. Includes safety warnings, assembly guidance, operation details, and maintenance tips.</p>
	<p>Outsunny Outdoor Gas Grill: Operating, Safety, and Maintenance Manual</p> <p>Comprehensive guide for the Outsunny Outdoor Gas Grill (Model WN-02LS-04B), covering safe operation, assembly instructions, maintenance, and troubleshooting. Ensure proper use for a safe and enjoyable grilling experience.</p>
	<p>Outsunny 846-138V70/V90 Outdoor Gas Grill: Operating Instructions and Safety Guide</p> <p>This document provides comprehensive operating instructions, safety precautions, technical specifications, assembly guidance, and troubleshooting tips for the Outsunny 846-138V70 and 846-138V90 outdoor gas grills.</p>



[Outsunny 846-166V30/846-166V80 Gas Grill Assembly and User Manual](#)

Comprehensive guide for assembling, operating, and maintaining your Outsunny 846-166V30/846-166V80 gas barbecue grill. Includes safety instructions, part list, and usage tips for optimal performance and safety.