

OHLECTRIC OL-47198-1

OHLECTRIC Insulated Wire Connector User Manual

Model: OL-47198-1

1. INTRODUCTION

Thank you for choosing the OHLECTRIC Insulated Wire Connector. This manual provides essential information for the safe and efficient installation, operation, and maintenance of your 4-port dual side entry wire connector. Designed for reliability and ease of use, this connector is suitable for a wide range of electrical applications, ensuring secure and lasting connections.

This connector is pre-filled with an oxide inhibitor to prevent corrosion and enhance the lifespan of your electrical connections. It is designed for 250-6 AWG wires and features 5/16 hex screws for secure tightening.

2. SAFETY INFORMATION

WARNING: Electrical work can be dangerous. Always consult with a qualified electrician and adhere to all local and national electrical codes before attempting any electrical installation. Failure to follow these instructions may result in electrical shock, fire, or serious injury.

- Always turn off power at the circuit breaker or fuse box before installing or servicing electrical connectors.
- Use appropriate personal protective equipment (PPE), including insulated gloves and safety glasses.
- Ensure all connections are tight and secure to prevent arcing or overheating.
- Verify wire compatibility (AWG range) with the connector before installation.
- This product is intended for indoor use only.

3. PACKAGE CONTENTS

The package for the OHLECTRIC Insulated Wire Connector (Model OL-47198-1) includes:

- 1 x OHLELECTRIC Insulated Wire Connector (4 Port Dual Side Entry)

4. PRODUCT OVERVIEW & FEATURES

The OHLELECTRIC Insulated Wire Connector is designed for superior electrical connections. Key features include:

- **Advanced Insulation Technology:** Provides superior protection for electrical connections, suitable for splicing 250-6 AWG wires.
- **Versatile Wire Compatibility:** 4-port dual side entry design for seamless integration with 250-6 wire range, ideal for various electrical applications.
- **Pre-Filled Oxide Inhibitor:** Enhances the lifespan of electrical connections by preventing corrosion.
- **Secure Connection Mechanism:** Equipped with 5/16 hex screws to ensure tight and secure connections, minimizing disconnection risks.
- **Reliable in Varied Applications:** Easy installation for automotive, marine, and industrial projects, delivering consistent performance.

DUAL SIDE ENTRY
***INSULATED WITH RUGGED HIGH-DIELECTRIC
RUBBER/VINYL COATING***

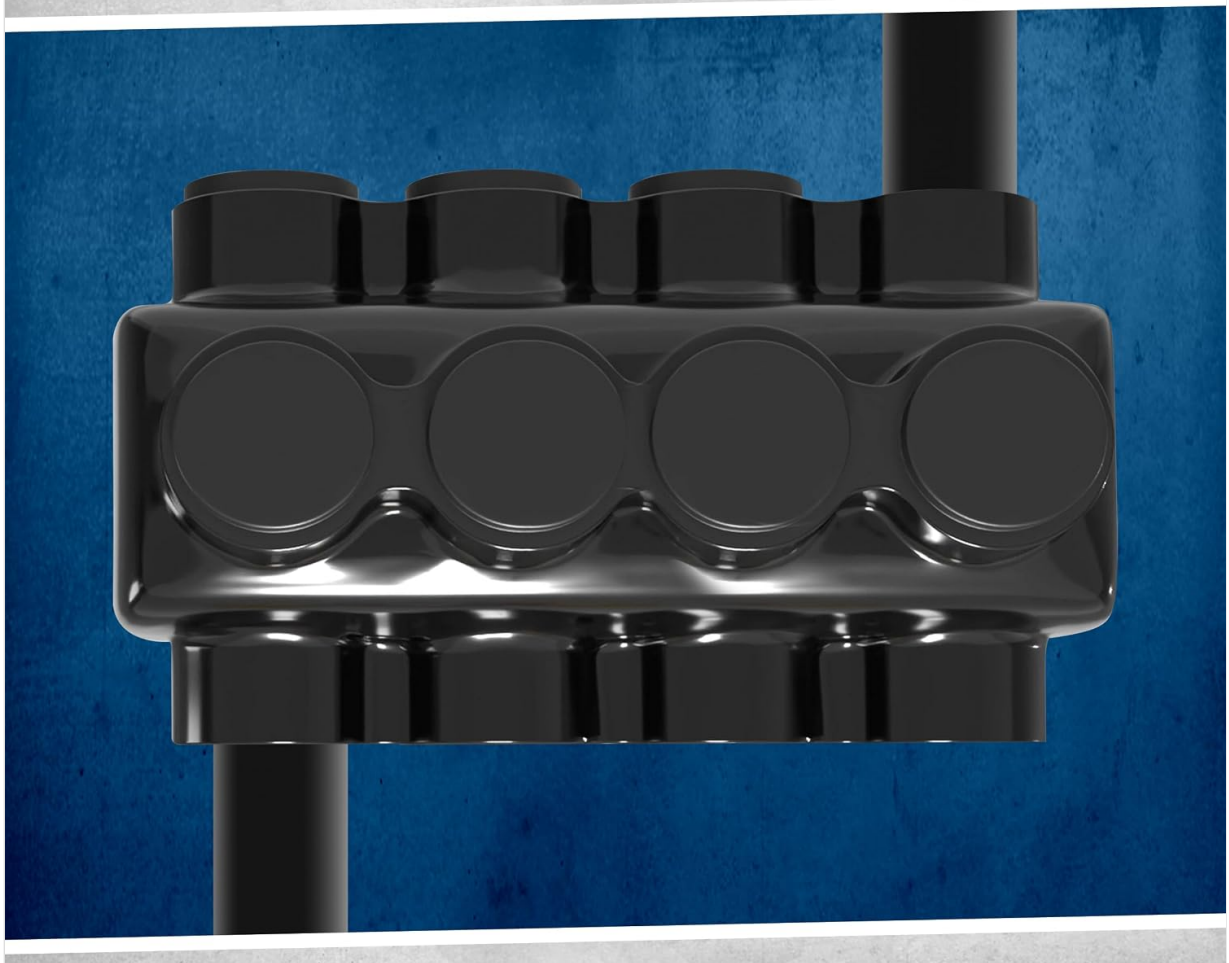


Figure 1: OHLELECTRIC Insulated Wire Connector with dual side entry ports.



EASY RE-ENTRY FOR CHANGES



**Wire Range
250-6**



**Hex
Screw**



**600 Volt
Rating**

Figure 2: Key features of the connector including wire range, hex screw type, and voltage rating.



**INSULATED WITH RUGGED
HIGH-DIELECTRIC
RUBBER/VINYL COATING**

Figure 3: The connector features a rugged high-dielectric rubber/vinyl coating for insulation.

PRE-FILLED WITH OXIDE INHIBITOR



Figure 4: The connector comes pre-filled with an oxide inhibitor to prevent corrosion.

5. SPECIFICATIONS

Detailed technical specifications for the OHLETRIC Insulated Wire Connector (Model OL-47198-1):

Specification	Value
Brand	OHLETRIC
Model	OL-47198-1
Gauge	250-6 AWG
Connector Type	Butt Splice
Number Of Contacts	4
Number Of Poles	4
Material	Aluminum

Specification	Value
Color	Black
Centerline Length	3.29 Inches
Upper Temperature Rating	194 Degrees Fahrenheit (90°C)
Specification Met	Culus
Hex Screw Size	5/16 inch



Figure 5: Product dimensions for the 4-port connector.

CONNECTOR SIZE	STRIP LENGTH: IN.	ALLEN HEX	WIRE RANGE COPPER	WIRE RANGE ALUMINUM	TORQUE (IN/LBS)
#4 AWG	7/8	Slotted or 5/32"	14 AWG, Str./Sol.	-	28
			12 AWG, Str./Sol.	-	35
			10 AWG, Str./Sol.	-	45
			8 AWG, Str	-	55
			6 AWG, Str	-	60
			4-4 AWG, Str.	4-4 AWG, Str	75
#2 AWG	7/8	Slotted or 5/32"	14 AWG, Str./Sol.	-	28
			12 AWG, Str./Sol.	-	35
			10 AWG, Str./Sol.	-	45
			8 AWG, Str	-	55
			6 AWG, Str.	-	60
			2-4 AWG, Str.	2-4 AWG, Str	75

Figure 6: Wire stripping lengths and torque specifications for various wire gauges.

CONNECTOR SIZE	STRIP LENGTH: IN.	ALLEN HEX	WIRE RANGE COPPER	WIRE RANGE ALUMINUM	TORQUE (IN/LBS)
1/0 AWG	1	Slotted or 3/16"	10-14AWG, Str./Sol.	-	35
			8 AWG, Str.	-	75
			4-6 AWG, Str.	4 AWG, Str	110
			1-3 AWG, Str	1-3 AWG, Str.	150
			1/0 AWG, Str.	1/0 AWG, Str.	180
			6 AWG, Str.	-	110
2/0 AWG	1-1/16	7/32"	4 AWG, Str.	4 AWG, Str	120
			2 AWG, Str	2 AWG, Str.	160
			1-1/0 AWG, Str.	1-1/0 AWG, Str.	165
			2/0 AWG, Str	2/0 AWG, Str.	170

Figure 7: Additional wire stripping lengths and torque specifications.

CONNECTOR SIZE	STRIP LENGTH: IN.	ALLEN HEX	WIRE RANGE COPPER	WIRE RANGE ALUMINUM	TORQUE (IN/LBS)
3/0 AWG	1-1/8	7/32"	6 AWG, Str.	6 AWG, Str.	110
			1-3 AWG, Str.	1-3 AWG, Str.	150
			1/0-2/0 AWG, Str.	1/0-2/0 AWG, Str.	180
			3/0 AWG, Str.	3/0 AWG, Str.	250
250 MCM	1-3/8	5/16"	6 AWG, Str.	6 AWG, Str.	110
			3 AWG, Str.	3 AWG, Str.	150
			250kcmil-2AWG, Str.	250kcmil-2AWG, Str.	360
350 MCM	1-1/2	3/8"	6 AWG, Str	6 AWG, Str	110
			3-1AWG, Str	3-1AWG, Str	150
			350kcmil-1/0AWG, Str.	350kcmil-1/0AWG, Str.	400

Figure 8: Further wire stripping lengths and torque specifications.

CONNECTOR SIZE	STRIP LENGTH: IN.	ALLEN HEX	WIRE RANGE COPPER	WIRE RANGE ALUMINUM	TORQUE (IN/LBS)
500 MCM	1-3/4	3/8"	4 AWG, Str.	4 AWG, Str.	110
			1-3 AWG, Str.	1-3 AWG, Str.	150
			500kcmil-1/0AWG, Str.	500kcmil-1/0AWG, Str.	450
600 MCM	2	3/8"	1-4 AWG, Str.	1-4 AWG, Str.	150
			600kcmil-1/0AWG, Str	600kcmil-1/0AWG, Str	550
750 MCM	2-1/2	3/8"	750kcmil-1/0AWG, Str.	750kcmil-1/0AWG, Str.	550

Figure 9: Concluding wire stripping lengths and torque specifications.

6. INSTALLATION INSTRUCTIONS

Follow these steps for proper installation of the OHLECTRIC Insulated Wire Connector:

- 1. Prepare Wires:** Ensure power is OFF. Strip the insulation from the ends of the wires to the length specified in the specifications table (Figures 6-9). Ensure the stripped wire is clean and free of damage.
- 2. Insert Wires:** Insert one stripped wire end into each port of the connector. The dual side entry allows wires to enter from either side. Ensure the wire is fully inserted until it bottoms out against the internal stop.
- 3. Secure Connections:** Use a 5/16 inch hex wrench to tighten the hex screws on top of each port. Tighten each screw to the recommended torque value specified in the tables (Figures 6-9). Over-tightening can damage the connector or wire; under-tightening can lead to a poor connection.
- 4. Verify Connection:** Gently tug on each wire to ensure it is securely held in place and cannot be pulled out.
- 5. Insulate (if necessary):** Although the connector is insulated, ensure all exposed wire and connection points are properly covered and insulated according to electrical codes.

ONE WIRE PER TERMINAL

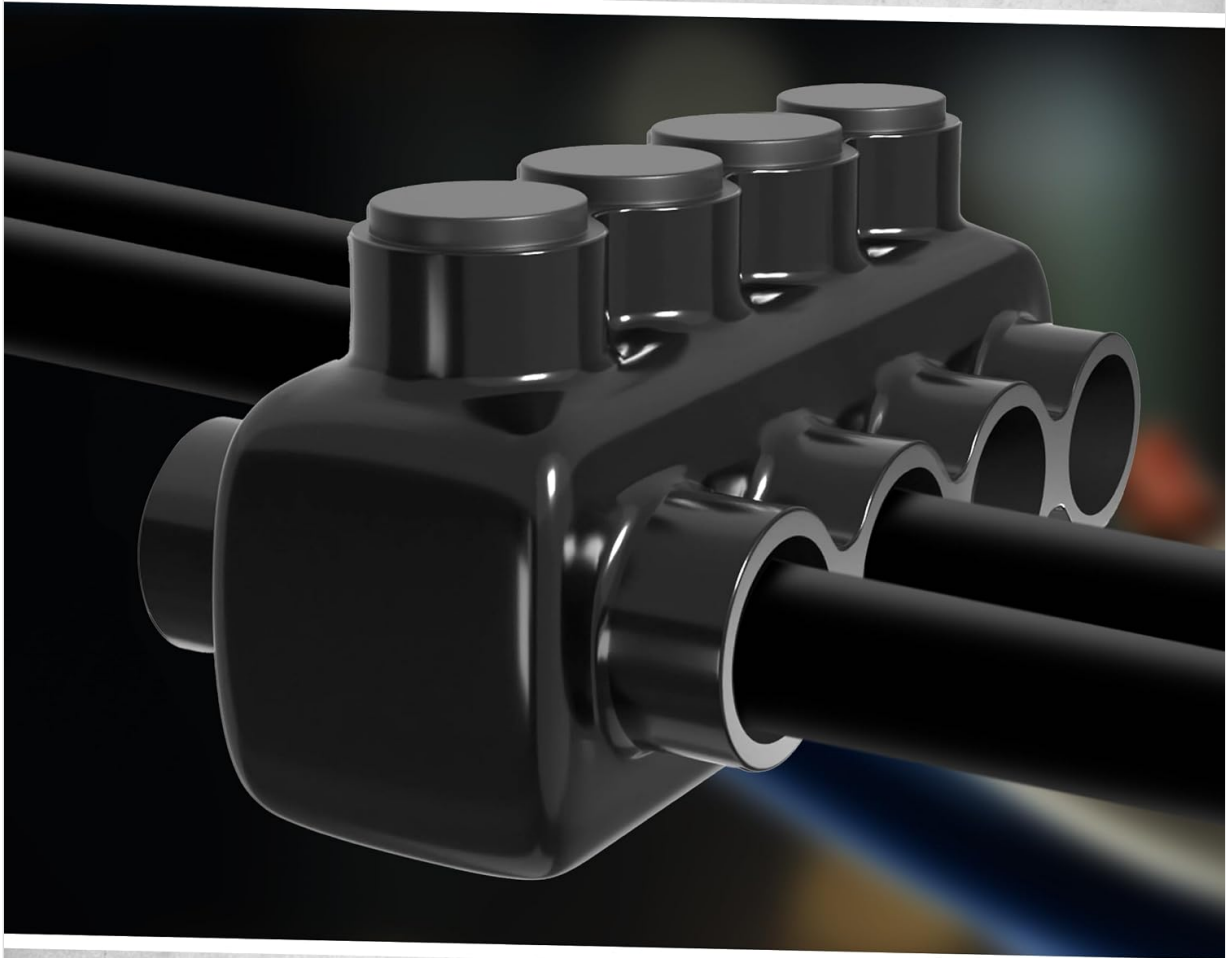
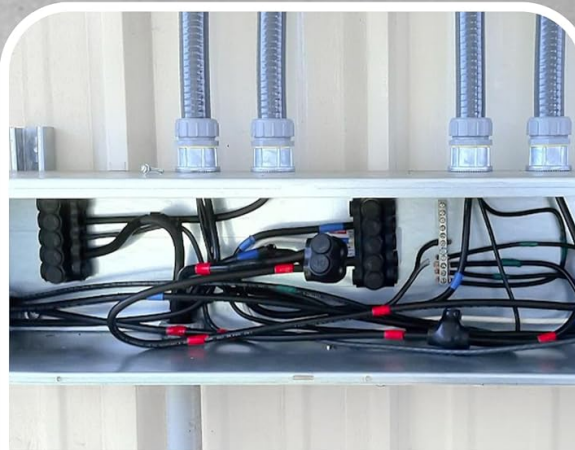


Figure 10: Ensure only one wire is inserted per terminal for proper connection.



High-Quality

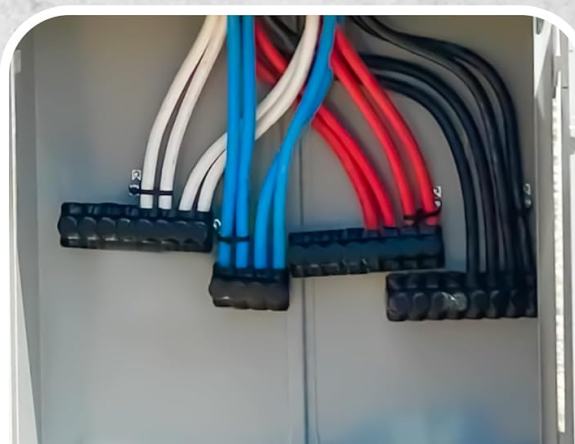


Durable

INDOOR USE ONLY



Safety



Efficient

Figure 11: Examples of proper indoor installation in electrical panels.

7. OPERATING INSTRUCTIONS

Once properly installed, the OHLECTRIC Insulated Wire Connector operates passively as a secure electrical splice. No user interaction is required during normal operation. The pre-filled oxide inhibitor and robust insulation ensure long-term, maintenance-free performance under specified conditions.

8. MAINTENANCE

The OHLECTRIC Insulated Wire Connector is designed for minimal maintenance. However, periodic inspection is recommended, especially in critical applications:

- **Visual Inspection:** Periodically check the connector for any signs of physical damage, discoloration, or overheating.
- **Connection Integrity:** If accessible and safe to do so (with power OFF), gently check the tightness of the hex screws to ensure connections remain secure.
- **Environmental Check:** Ensure the connector remains in a dry, indoor environment as specified for its

intended use.

9. TROUBLESHOOTING

If you encounter issues with your electrical connection, consider the following troubleshooting steps:

- **Loss of Power:** If a circuit loses power, first check the circuit breaker. If the breaker is not tripped, inspect the wire connector (with power OFF) for loose wires. Re-tighten screws to specified torque.
- **Overheating/Discoloration:** Immediately turn off power. Overheating or discoloration indicates a poor connection or overload. Inspect wires for proper gauge and ensure screws are tightened correctly. Replace the connector if damaged.
- **Intermittent Connection:** This often points to a loose connection. Turn off power and re-check the tightness of all hex screws.

If problems persist, consult a qualified electrician.

10. WARRANTY AND SUPPORT

OHLETRIC products are manufactured to high-quality standards and are backed by a strong commitment to customer satisfaction. For warranty information, technical support, or assistance with your product, please refer to the contact information provided on the OHLETRIC website or your purchase documentation.

OHLETRIC is dedicated to providing reliable electrical solutions and accessible support for professionals and consumers alike.

11. ABOUT OHLETRIC

OHLETRIC is a trusted brand in electrical and lighting products, known for quality, safety, and innovation. Our products are designed and tested to ensure durability and performance, meeting the demands of professionals in the electrical field.

Your browser does not support the video tag.

Video 1: An overview of OHLETRIC's commitment to quality, safety, and innovation across its product range.
