1801 Morgan Street Rockford, Illinois 61102 800-435-2931 www.molexkits.com



Datasheet for 76650-0144

General Information

Part Number: 76650-0144

Manufacturer: Molex / Waldom

Title: XRC Circular Sealed Connector Kit

Description: Circular Sealed Plug and Receptacle, IP-67

Product Family: XRC™

Certificates: (Molex Parts within this kit) - EU and China RoHS Compliant, UL and CSA

Country of Origin: Kit assembled in U.S.A.

Specifications

Design

Configuration: Wire-to-Wire

Shell Size: standard 18 (Additional shell sizes will eventually be released)

Connector Type: Plugs and Receptacles

Circuit Sizes: 14 Circuits (maximum) (Additional circuits will eventually be released)

Current Rating: 10 Amps (18 AWG), 13 Amps (16-14 AWG)

Voltage Rating: 300 Volts

Wire size: (18-16) and (18-14) AWG

Product Highlights

The XRC 14-circuit, circular connector was developed to meet the demanding requirements of the heavy-equipment industry. For maximum design flexibility, the XRC plugs and receptacles are available in standard and reverse gender. The connectors can be used for in-line or panel-mount applications. Plugs feature a quick-disconnect bayonet latch to provide quick and easy connections with reduced installation and service time while ensuring accurate mating depth. Designed to meet IP67 standards, XRC plugs and receptacles protect against the ingress of dust, water and other contaminants to maintain the integrity of the mated pair.



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Features and Benefits

• Environmentally sealed to IP67 standard

- Standard and reverse terminal genders, allows for custom polarization
- Tactile and audible mating feedback, facilitates reliable mating
- Bayonet-style latch, provides quick and easy connections for reduced installation and service time
- Simple crimp-and-poke technology, does not require terminal alignment when installing crimped wires

Applications

- Marine: Boats and propulsion systems
- Agriculture Equipment, Combines, Tractors
- Transportation: Tractor trailers, Buses, Fire Trucks
- Recreational Vehicles
- Construction Equipment: Fork lifts, Loaders, Cranes

Bill of Materials for Part No. 76650-0144

| | Country | | Quantity in |
|----------------|-----------|--|-------------|
| Molex Part No. | of Origin | Description | Kit |
| | | XRC™ Sealed Plug with Pin Insert, Shell Size 18, 14 | |
| 84501-0001 | Taiwan | Circuits, Blue Ring | 1 |
| | | XRC™ Sealed Plug with Socket Insert, Shell Size 18, 14 | |
| 84507-0012 | Taiwan | Circuits, Blue Ring | 1 |
| 84502-0004 | Taiwan | XRC [™] Panel Mount Hex Nut for Shell Size 18 Receptacles | 1 |
| 84502-0008 | Taiwan | XRC [™] Sealed Receptacle with Pin Insert, Shell Size 18, 14 Circuits, Blue Ring | 1 |
| 84590-0020 | Taiwan | XRC™ 3.56mm (.140") Crimp Terminal, Pin, 18-16 AWG | 10 |
| 84590-0021 | Taiwan | XRC™ 5.77mm (.227") Crimp Terminal, Pin, 18-14 AWG | 10 |
| 84590-0022 | Taiwan | XRC [™] 4.64mm (.183") Crimp Terminal, Pin, 18-14 AWG | 25 |
| 84590-0023 | Taiwan | 4.64mm (.183") Hooded Crimp Terminal, Socket, 18-14 AWG | 25 |
| 84590-0024 | Taiwan | 5.77mm (.227") Hooded Crimp Terminal, Socket, 18-14 AWG | 10 |
| 84590-0025 | Taiwan | 3.56mm (.140") Hooded Crimp Terminal, Socket, 18-16 AWG | 10 |
| 84508-0001 | Taiwan | XRC [™] Sealed Receptacle with Socket Insert, Shell Size 18, 14 Circuits, Blue Ring | 1 |
| 84509-0002 | Taiwan | Sealing Key Plug, Contact Sizes 12 & 16 | 5 |



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Recommended Molex Tool(s) for Part No. 76650-0144*

| Molex Part No. | Country of Origin | Description |
|----------------|-------------------|--|
| 63811-1000 * | USA | Hand Crimper - DISTRIBUTION ONLY (non-ratcheting, 24-14 AWG) |
| 63811-5500 * | USA | Hand Crimper Tool - (3.56mm (.140")) |
| 63811-5600 * | USA | Hand Crimper Tool - (4.64mm (.183")) |
| 63811-5800 * | USA | Hand Crimper Tool - (5.77mm (.227")) |
| 63813-1900 * | Taiwan | Terminal Extractor Tool |

^{*}Tool(s) not included in kit. Tool(s) ordered separately.