![Chipsmall logo]

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

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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	Applications
• 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	• 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

Molex Part No.	Country of Origin	Description	Quantity in Kit
84501-0001	Taiwan	XRC™ Sealed Plug with Pin Insert, Shell Size 18, 14 Circuits, Blue Ring	1
84507-0012	Taiwan	XRC™ Sealed Plug with Socket Insert, Shell Size 18, 14 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

For additional Molex / Waldom Design and Solution Kits please go to www.molexkits.com

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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.

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