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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!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



Datasheet for 76650-0172

General Information

Part Number:	76650-0172
Manufacturer:	Molex / Waldom
Title:	EXTreme Z Power Connector Kit
Description:	Mezzanine PCB Connectors
Product Family:	EXTreme ZPower™
Certificates:	(Molex Parts within this kit) - EU RoHS Compliant and UL
Country of Origin:	Kit assembled in U.S.A.

Specifications

Design

Configuration: (Wire-to-Board) and/or (Board-to-Board)

PCB Layout Pitch: 3.18 mm (0.125")

Connector Type: Interconnect System

PCB thickness 1.57mm (.062") min. - (Wire-to-Board)

Parallel Board

Spacing: 10.30mm (.405") - (Board-to-Board)

Current Rating: 30 (6 Tail) and 50 (10 Tail) Amps - Current rating is application dependent.

Voltage: 600 volts

Wire size: 8 and (12-10) AWG

Product Highlights

The Z-Power connectors are power mezzanine connectors with 50 Amp (10 Tail) and 30 Amp (6 Tail) versions. These connectors are single-piece devices which connect two printed circuit boards. The connectors are press-fit to a lower board and subsequently bolted to a second, upper board.

Datasheet for 76650-0172

Features and Benefits	Applications
<ul style="list-style-type: none"> Patented internal terminal design allows a rigid, secure interface while helping to isolate pressfit pins from the load of shock and vibration Captured internal nut for ease of assembly High-normal force, high-reliability interface One piece ridged Board-To-Board high current interconnect Hertzian contact areas create a reliable (gas-tight) mating surface Screw contact interface can accept standard wire-crimp, ring-lug terminals for wire-to-board applications 	<ul style="list-style-type: none"> Industrial Applications 30 Amp applications 50 Amp applications

Bill of Materials for Part No. 76650-0172

Molex Part No.	Country of Origin	Description	Quantity in Kit
19073-0216	USA	# 5-6 Ring Tongue Terminal Nylon (12-10) AWG	10
19193-0128	USA	# 5-6 Ring Tongue Terminal Non-insulated (12-10) AWG	10
76001-0106	USA	6 Tail, 30Amp, Tin plated, EXTreme ZPower™ PCB Connector	2
76001-0110	USA	10 Tail, 50Amp, Tin plated, EXTreme ZPower™ PCB Connector	2
19193-0198	USA	# 6 Ring Tongue Terminal Non-insulated 8 AWG	10

Recommended Molex Tool(s) for Part No. 76650-0172*

Molex Part No.	Country of Origin	Description
62100-5300 *	USA	ZPower™ Extraction Tool
64001-0100 *	USA	Hand Crimp Tool (RHT-1990)
64001-1500 *	USA	Hand Crimp Tool (RHT-2200)
64003-0100 *	USA	Hand Crimp Tool (RHT-1992)
64001-3900 *	USA	Hand Crimp Tool (MCT-8200) - 8 AWG

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