

## Datasheet for 76650-0172

### General Information

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

### Specifications

#### Design

<b>Configuration:</b>	(Wire-to-Board) and/or (Board-to-Board)
<b>PCB Layout Pitch:</b>	3.18 mm (0.125")
<b>Connector Type:</b>	Interconnect System
<b>PCB thickness</b>	1.57mm (.062") min. - (Wire-to-Board)
<b>Parallel Board</b>	
<b>Spacing:</b>	10.30mm (.405") - (Board-to-Board)
<b>Current Rating:</b>	30 (6 Tail) and 50 (10 Tail) Amps - Current rating is application dependent.
<b>Voltage:</b>	600 volts
<b>Wire size:</b>	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.

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

**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.