

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.

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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.

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