

## Datasheet for 76650-0176

### General Information

|                           |                                                               |
|---------------------------|---------------------------------------------------------------|
| <b>Part Number:</b>       | 76650-0176                                                    |
| <b>Manufacturer:</b>      | Molex / Waldom                                                |
| <b>Title:</b>             | Disk Drive Power Connector Kit                                |
| <b>Description:</b>       | PCB Vertical Header and Receptacle                            |
| <b>Product Family:</b>    | Disk Drive Power                                              |
| <b>Certificates:</b>      | (Molex Parts within this kit) - EU RoHS Compliant, UL and CSA |
| <b>Country of Origin:</b> | Kit assembled in U.S.A.                                       |

### Specifications

|                        |                                          |
|------------------------|------------------------------------------|
| <b>Design</b>          |                                          |
| <b>Configuration:</b>  | Wire-to-Board                            |
| <b>Pitch:</b>          | 5.08mm (.200")                           |
| <b>Connector Type:</b> | Receptacles and Headers                  |
| <b>Mounting</b>        |                                          |
| <b>Orientation:</b>    | Vertical                                 |
| <b>Circuit Sizes:</b>  | 4                                        |
| <b>Current Rating:</b> | (6 to 10) Amps - Dependant on Wire gauge |
| <b>Voltage Rating:</b> | 250 Volts AC                             |
| <b>Wire Size:</b>      | 20-14 AWG                                |

### Product Highlights

This series of power connectors are used mainly in the hard and floppy disk drive industries. It is used to carry voltages from the power supply unit to the disk drive board. It is used to carry voltages from the power supply unit to the disk drive board. An attempt was made by a group of ESDI (extended data interface) committee to standardize the power connector in the drive industries. As there was no standard as yet, Molex came up with a variation of power connectors falling under our this 8981 series to accommodate the need of our valuable customers.

### Features and Benefits

- Varying profile heights
- Wire connectors have end grips for easy unmating
- Detents provide firm positive fit
- Crimp equivalent of 70156 IDT connector
- Wire range from 20 to 14 AWG
- 2.096mm (.0825") diameter socket terminals

### Applications

- Computers
- Medium to High Power equipment

**For additional Molex / Waldom Design and Solution Kits please go to [www.molexkits.com](http://www.molexkits.com)**

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### Bill of Materials for Part No. 76650-0176

| Molex Part No. | Country<br>of Origin | Description                                                    | Quantity in<br>Kit |
|----------------|----------------------|----------------------------------------------------------------|--------------------|
| 02-08-1202     | China                | .0825 Female Crimp Socket Terminals (20-14) AWG                | 100                |
| 15-24-4048     | Singapore            | 4 Circuit 5.08mm (.200") Pitch Receptacle Housing              | 12                 |
| 15-24-4449     | Singapore            | 4 Circuit 5.08mm (.200") Pitch Vertical PCB Header, .140" Tail | 5                  |
| 15-24-4557     | Singapore            | 4 Circuit 5.08mm (.200") Pitch Vertical PCB Header, .083" Tail | 5                  |
| 15-24-4745     | Singapore            | 4 Circuit 5.08mm (.200") Pitch Vertical PCB Header, .141" Tail | 5                  |

### Recommended Molex Tool(s) for Part No. 76650-0176

| Molex Part No. | Country<br>of Origin | Description               |
|----------------|----------------------|---------------------------|
| 63811-7000 *   | Germany              | Hand Crimp Tool           |
| 11-03-0037 *   | Mexico               | Extraction Tool (HT60624) |

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