

## Datasheet for 76650-0053

### General Information

|                           |                                                                                                                                                          |
|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Part Number:</b>       | 76650-0053                                                                                                                                               |
| <b>Manufacturer:</b>      | Molex / Waldom                                                                                                                                           |
| <b>Title:</b>             | Deluxe Solderless Term Kit                                                                                                                               |
| <b>Description:</b>       | Insulated Ring, Spade, Butt Splice, Closed-End Solderless Terminal .187" and .250 "<br>Fully Insulated Female Quick Disconnect with Universal Crimp tool |
| <b>Product Family:</b>    | Terminals                                                                                                                                                |
| <b>Certificates:</b>      | (Molex Parts within this kit) - EU RoHS Compliant                                                                                                        |
| <b>Country of Origin:</b> | Kit assembled in U.S.A.                                                                                                                                  |

### Specifications

#### Design

|                        |                                                           |
|------------------------|-----------------------------------------------------------|
| <b>Configuration:</b>  | (Wire-to-Wire) and (Wire-to-Board) / Solderless Terminals |
| <b>Connector Type:</b> | Solderless Terminals                                      |
| <b>Tab Sizes:</b>      | .187" and .250"                                           |
| <b>Stud Sizes:</b>     | 5-6 (M3-3.5)                                              |
| <b>Insulation:</b>     | Nylon and PVC                                             |
| <b>Wire size:</b>      | (22-18), (16-14) and (12-10) AWG                          |

### Product Highlights

Quick disconnects allow for quickly connecting or disconnecting a terminal. The front end of the terminal has a female-type receptacle which allows the terminal to slide onto and off of a male blade. Flags are a type of product that are used when there is a space constraint, and a regular straight Quick Disconnect is too large. Piggyback Quick Disconnects can be used when multiple connections (also called piggyback) are required and there are a limited number of male tabs. The piggyback actually allows another QD to be connected to its tab and then the piggyback is connected to a tab.

Spades have the open tongue end used for rapid insertion on the mounting screw. The spade is usually used on free standing studs.

The Snap plug is a round bullet-like terminal that plugs or "snaps" into the female receptacle. Snaps are used in a variety of applications where a "quick disconnect" connection is needed, but there is not enough space for a normal QD coupler. Like a coupler set, the male and female pieces can be connected and disconnected many times.

Closed-end connectors are used in a variety of situations to "pigtail" or tie together 2 or more wires.

Butt Splices allow two stripped wires to be inserted into each end and "butt" in the center, with the crimp securing both wires together.

The Step Down Butt Splice is the perfect solution when 2 wires need to be inserted in one end of a splice and a single wire in the other end.

### Datasheet for 76650-0053

| Features and Benefits                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Applications                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>• Color-coded insulator allows easy identification of terminal size and wire gauge.</li> <li>• The Step Down Butt Splice is the perfect solution when 2 wires need to be spliced to a single wire</li> <li>• Avikrimp provides a metal insulation support sleeve for superior strain relief</li> <li>• The color-coded Nylon insulating sleeve extends beyond the metal support sleeve</li> <li>• Terminal's funnel entrance is designed for increased crimping rates by speeding wire delivery into the crimp section and eliminating wire strand fold back.</li> <li>• A wire stop stamped into the crimp barrel prevents insertion of over-stripped wires.</li> </ul> | <ul style="list-style-type: none"> <li>• MRO (Maintenance Repair and Operations)</li> <li>• Consumer applications</li> <li>• Power applications</li> <li>• Motor applications</li> <li>• Powertrains</li> <li>• Transportation</li> <li>• Construction / Mining</li> <li>• Energy / Power</li> <li>• Production Equipment</li> <li>• Instrumentation</li> <li>• Environmental Equipment and Controls</li> <li>• Blower Motors</li> </ul> |

### Bill of Materials for Part No. 76650-0053

| Molex Part No. | Country of Origin | Description                                                                               | Quantity in Kit |
|----------------|-------------------|-------------------------------------------------------------------------------------------|-----------------|
| 19002-0001     | USA               | Fully Insulated Female Quick Disconnect Std. Flare Tab, 22-18 AWG, .250", Red             | 25              |
| 19002-0005     | USA               | Fully Insulated Female Quick Disconnect Std. Flare Tab, 22-18 AWG, .187", Red             | 25              |
| 19002-0024     | USA               | Fully Insulated Female Quick Disconnect Std. Flare Tab, 22-18 AWG, .250", Blue            | 25              |
| 19002-0028     | USA               | Fully Insulated Female Quick Disconnect Std. Flare Tab, 22-18 AWG, .187", Blue            | 25              |
| 19003-0001     | USA               | Fully Insulated Female Quick Disconnect Std. Flare Tab, 22-18 AWG, .250", Pink            | 25              |
| 19003-0011     | USA               | Fully Insulated Female Quick Disconnect, 22-18 AWG, .187", Pink                           | 25              |
| 19003-0040     | USA               | Fully Insulated Female Quick Disconnect Std. Flare Tab, 22-18 AWG, .250", Light Blue      | 25              |
| 19006-0001     | USA               | Fully Insulated Female Quick Disconnect Flag Terminal, 22-18 AWG, .250", Red              | 25              |
| 19006-0005     | USA               | Fully Insulated Female Quick Disconnect Flag Tab, 22-18 AWG, .187", Red                   | 25              |
| 19006-0011     | USA               | Fully Insulated Female Quick Disconnect Flag Tab, 22-18 AWG, .250", Blue                  | 25              |
| 19007-0001     | USA               | Fully Insulated Female Quick Disconnect Flag Terminal, 22-18 AWG, .250", Pink             | 25              |
| 19007-0021     | USA               | Fully Insulated Female Quick Disconnect Flag Std. Flare Tab, 16-14 AWG, .250", Light Blue | 25              |
| 19007-0029     | USA               | Fully Insulated Female Quick Disconnect Flag Std. Flare Tab, 16-14 AWG, .187", Light Blue | 25              |

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

## Datasheet for 76650-0053

### Bill of Materials for Part No. 76650-0053 continued

| Molex Part No. | Country of Origin | Description                                                                               | Quantity in Kit |
|----------------|-------------------|-------------------------------------------------------------------------------------------|-----------------|
| 19007-0040     | USA               | Fully Insulated Female Quick Disconnect Flag Terminal, 12-10 AWG, .250", Yellow           | 25              |
| 19013-0025     | Taiwan            | Insulated Female Quick Disconnect Pig Back Stnd. Flare Tab, 22-18 AWG, .250", Pink        | 25              |
| 19019-0001     | USA               | Insulated Female Quick Disconnect Nylon Tab, 22-18 AWG, .110", Dark Pink                  | 25              |
| 19019-0006     | USA               | Insulated Female Quick Disconnect Terminal, 22-18 AWG, .187", Dark Pink                   | 25              |
| 19019-0031     | USA               | Insulated Female Quick Disconnect Nylon Tab, 16-14 AWG, .250", Light Blue                 | 25              |
| 19606-0002     | USA               | Insulated Female Quick Disconnect Terminal, 12-10 AWG, .250", Yellow                      | 25              |
| 19154-0004     | USA               | PVC Ins. Butt Splice Connector, 22-18 AWG, Dark Pink                                      | 25              |
| 19154-0022     | India             | Ins. Step-down Butt Connector, 22-14 AWG, Blue                                            | 25              |
| 19160-0009     | USA               | Nylon Ins. Closed-end Connector, 22-12 AWG, Clear                                         | 25              |
| 19198-0016     | USA               | Ins. Spade Tongue Terminal, 16-14 AWG, 5-6 (M3-3.5) stud size, Light Blue                 | 25              |
| 19198-0070     | USA               | Ins. Spade Tongue Terminal, 22-18 AWG, 5-6 (M3-3.5) stud size, Dark Pink                  | 25              |
| 19294-0003     | USA               | Molex Universal Crimp Tool-Bolt Cutter/Wire Stripper/Wire Cutter, 22-10 AWG, Blue handles | 1               |

### Recommended Molex Tool(s) for Part No. 76650-0053\*

| Molex Part No. | Country of Origin | Description                   |
|----------------|-------------------|-------------------------------|
| 64001-0100 *   | USA               | Hand Crimp Tool (RHT-1990)    |
| 64001-0200 *   | USA               | Hand Crimp Tool (RHT-1991)    |
| 64001-0300 *   | USA               | Hand Crimp Tool (RHT-1993)    |
| 64001-0400 *   | USA               | Hand Crimp Tool (RHT-1994)    |
| 64001-0700 *   | USA               | Hand Crimp Tool (RHT-5757-CC) |
| 64001-0800 *   | USA               | Hand Crimp Tool (RHT-5760)    |
| 64001-0900 *   | USA               | Hand Crimp Tool (RHT-7050)    |
| 64001-1000 *   | USA               | Hand Crimp Tool (RHT-5758-CC) |
| 64001-1100 *   | USA               | Hand Crimp Tool (RHT-5762)    |
| 64001-1200 *   | USA               | Hand Crimp Tool (RHT-2050)    |
| 64001-1400 *   | USA               | Hand Crimp Tool (RHT-2100)    |
| 64001-1700 *   | USA               | Hand Crimp Tool (RHT-5757)    |
| 64001-2000 *   | USA               | Hand Crimp Tool (RHT-5758)    |
| 64001-2800 *   | USA               | Hand Crimp Tool T0102 Series  |
| 64001-4100 *   | USA               | Hand Crimp Tool (RHT-FIFG)    |
| 64001-4300 *   | USA               | Hand Crimp Tool (RHT-AFIFG)   |

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

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