

## 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 " 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.

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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 Stnd. Flare Tab, 22-18 AWG, .250", Red	25
19002-0005	USA	Fully Insulated Female Quick Disconnect Stnd. Flare Tab, 22-18 AWG, .187", Red	25
19002-0024	USA	Fully Insulated Female Quick Disconnect Stnd. Flare Tab, 22-18 AWG, .250", Blue	25
19002-0028	USA	Fully Insulated Female Quick Disconnect Stnd. Flare Tab, 22-18 AWG, .187", Blue	25
19003-0001	USA	Fully Insulated Female Quick Disconnect Stnd. 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 Stnd. 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 Stnd. Flare Tab, 16-14 AWG, .250", Light Blue	25
19007-0029	USA	Fully Insulated Female Quick Disconnect Flag Stnd. 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)**

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

<b>Molex Part No.</b>	<b>Country of Origin</b>	<b>Description</b>	<b>Quantity in Kit</b>
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\***

<b>Molex Part No.</b>	<b>Country of Origin</b>	<b>Description</b>
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.