

Datasheet for 76650-0160

General Information

Part Number:	76650-0160
Manufacturer:	Molex / Waldom
Title:	Sabre Power Connector Kit
Description:	Free Hanging Plug and Receptacle
Product Family:	Sabre™
Certificates:	(Molex Parts within this kit) - EU RoHS Compliant, UL and CSA
Country of Origin:	Kit assembled in U.S.A.

Specifications

Design

Configuration:	Wire to Wire
Pitch:	7.5mm (.295")
Connector Type:	Receptacles and Plugs
Circuit Sizes:	2, 3, 4, 5 and 6
Current Rating:	12-18 Amps Max. - Dependant on circuit size and wire gauge
Voltage:	600 Volts
Wire size:	18-14 AWG

Product Highlights

The Sabre housings provide a lower-cost option to compete with connectors offering a similar voltage and current rating. The Sabre system is a robust, high-power connector, supplying up to 18 amperes per circuit. The Sabre power-connector system provides design flexibility by accepting a wide range of wire gauges and insulation thicknesses. Lower-flammability Sabre products continue low-cost, high-power connector system legacy.

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Features and Benefits	Applications
<ul style="list-style-type: none"> • Patented new integral Terminal Position Assurance (TPA) on male and female terminal virtually eliminates terminal backout • Polarized housing assures proper mating • Positive latch reduces accidental disengagement from mate • Terminals are fully isolated in housing • Blade-terminal design has four points of electrical contact, provides a more reliable electrical connection than circular style terminals • Current rating up to 18.0A at 600V for high-current and high-voltage applications 	<ul style="list-style-type: none"> • Residential or commercial appliances • HVAC equipment • Computer servers • Networking equipment • Office equipment • Fitness equipment • Medical equipment • Retail Security Scanning Systems • Home Entertainment • Factory Automation Equipment • Lighting • Power Supplies • Work Stations • Automotive Aftermarket

Bill of Materials for Part No. 76650-0160

Molex Part No.	Country of Origin	Description	Quantity in Kit
43178-2002-C^	USA	Male Crimp Sabre™ Terminal (18-14) AWG 4.57mm (.180") max. Ins. Dia.	100
43375-1001-C^	USA	Female Crimp Sabre™ Terminal (18-14) AWG 4.57mm (.180") max. Ins. Dia.	100
44441-2002	USA	2 Circuit 7.5mm (.295") Pitch Sabre™ Receptacle	8
44441-2003	USA	3 Circuit 7.5mm (.295") Pitch Sabre™ Receptacle	5
44441-2004	USA	4 Circuit 7.5mm (.295") Pitch Sabre™ Receptacle	4
44441-2005	USA	5 Circuit 7.5mm (.295") Pitch Sabre™ Receptacle	3
44441-2006	USA	6 Circuit 7.5mm (.295") Pitch Sabre™ Receptacle	3
43680-2002	USA	2 Circuit 7.5mm (.295") Pitch Sabre™ Plug	8
43680-2003	USA	3 Circuit 7.5mm (.295") Pitch Sabre™ Plug	5
43680-2004	USA	4 Circuit 7.5mm (.295") Pitch Sabre™ Plug	4
43680-2005	USA	5 Circuit 7.5mm (.295") Pitch Sabre™ Plug	3
43680-2006	USA	6 Circuit 7.5mm (.295") Pitch Sabre™ Plug	3

^ Accommodates single or double wire crimps

Recommended Molex Tool(s) for Part No. 76650-0160*

Molex Part No.	Country of Origin	Description
63811-2100 *	Germany	Hand Crimp Tool for Male Terminal
63813-0600 *	USA	Manual Activation and Deactivation Tool for Male Terminal

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

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63813-0800 *	USA	Manual Extraction Tool for Male Terminal
63813-2700 *	USA	Extraction Tool for Female Terminal
63811-7300 *	Germany	Hand Crimp Tool for Female Terminal

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