

# VersaBlade™ Wire-to-Wire Connector System

**molex**®

**VersaBlade™ Wire-to-Wire Connector System enables reliable signal and power transmission at 300V and 15A with superior mating reliability, polarization and easy harness assembly**

## Features and Benefits

Formed, 1.80mm-wide, flat-blade tab terminals. Accept wide range of wire sizes (14 to 24 AWG)

Supports high voltage and current (300V/15A). More robust than blanked terminals

Multi-configured modular housings with color-coding options

Provide design flexibility and polarization. Enables power and signal carrying within one connector. Facilitates material management when housings and wires are color matched

Variety of terminal position assurance (TPA) types

Facilitates correct mating. Provides reliable terminal seating. Availability of options provides design flexibility for harness assembly

Positive lock

Ensures mated connector assemblies will not disengage. Strengthens retention force

Polarized housing and terminal dimple available (terminal-to-housing; housing-to-housing)

Prevents incorrect connector insertion and mating

Multi-branched wiring capabilities

Offers harness design options to reduce time and cost

Optional glow-wire-compliant housing

Meets global safety and environmental requirements for appliance applications

Terminals can be crimped with two wires

Enables daisy-chain connections

Optional snap-in mounting ears

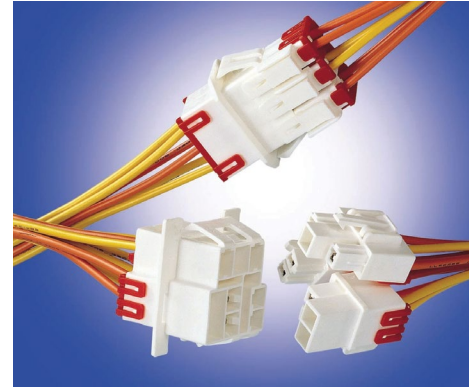
Enables panel-mount, feed-through configurations

Dual row system

Provides heat dissipation and low engagement force. Operating temperature: -40 to +110°C

Housing lance – plastic hook captures the hole on terminal

Higher and more solid terminal-to-housing retention. No flaring weak metal tangs



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## Applications

### Consumer / Home Appliance

- Refrigerator
- Washing Machine
- Microwave Oven
- Air Conditioner
- Air Cleaner / Dehumidifier
- Exercise Equipment

- Printers
- Copiers

### Data / Computing

- Copiers

### Medical



Printer



Exercise Equipment



Appliances

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## Specifications

### REFERENCE INFORMATION

Packaging:  
 Housing/TPA – Bulk  
 Terminal – Reel  
 UL File No.: E29179  
 CSA File No.: LR19980  
 TUV File No.: R72090206  
 RoHS: Compliant  
 Halogen Free: Low Halogen  
 Glow Wire Compliant: Available

### ELECTRICAL

Voltage (max.):300V  
 Current (max.):15A  
 Contact Resistance:10 milliohm  
 Dielectric Withstanding Voltage: No breakdown  
 Insulation Resistance: 100 megaohm

### MECHANICAL

Contact Insertion Force (max.) :3.5kgf  
 Contact Retention to Housing (min.):4.0kgf  
 Durability (max.): 20 milliohms

### PHYSICAL

Housing:  
 Polybutylene Terephthalate (PBT) – Natural, Blue, Red  
 Polyethylene Terephthalate / Polycarbonate (PET/PC) – Natural, Blue, Yellow  
 Terminal Plating:  
 Brass – Tin (Male Terminal)  
 Phosphor Bronze –Tin (Female Terminal)  
 Operating Temperature: -40 to +110°C

## Ordering Information

Series No.	Component	Available Circuit or Wire Size
<a href="#">35150</a>	Standard plug housing and TPA	1, 2, 3, 4, 6 circuits
<a href="#">35151</a>	Standard receptacle housing	1, 2, 3, 4, 6 circuits
<a href="#">35180</a>	Hybrid multi-module male housing	4, 6 circuits
<a href="#">35181</a>	Hybrid multi-module female housing	2 circuits
<a href="#">35186</a>	Hybrid multi-module female housing	6 circuits
<a href="#">35524</a>	Hybrid multi-module male housing	9 circuits
<a href="#">35182</a>	TPA for standard male and female housing	1, 2, 3 circuits
<a href="#">35187</a>	TPA for hybrid multi-module female housing	3 circuits
<a href="#">35965</a>	Hybrid multi-module female housing and TPA	2 circuits
<a href="#">104081</a>	TPA for standard female housing	2 circuits
<a href="#">49547</a>	TPA, upper, for hybrid multi-module female housing	3 circuits
<a href="#">49548</a>	TPA, lower, for hybrid multi-module female housing	3 circuits
<a href="#">35745</a>	Male terminal, type A	14 to 24 AWG
<a href="#">35747</a>	Male terminal, type B	14 to 24 AWG
<a href="#">35746</a>	Female terminal, type A	14 to 24 AWG
<a href="#">35748</a>	Female terminal, type B	14 to 24 AWG

[www.molex.com/product/versablade.html](http://www.molex.com/product/versablade.html)