

VersaBlade Wire-to-Wire Connector System

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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 Advantages

Polarized housing and terminal dimple

Prevents incorrect connector insertion and mating

Multi-branched wiring capabilities

Offers harness design options to reduce time and cost

Glow-wire-capable housing (optional)

Meets global safety and environmental requirements

Snap-in mounting ears (optional)

Enables easy panel mount and ensures strong retention force

Dual-row system

Facilitates heat dissipation and low engagement force

Terminals can be crimped with two wires

Enables daisy-chain connections

Friction and positive lock

Provides improved mating retention

Variety of terminal position assurance (TPA) types

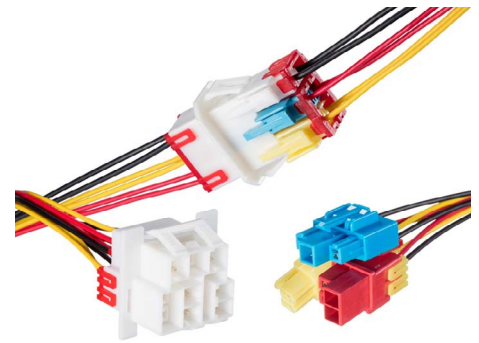
TPA ensures wires are fully inserted and variety provides design flexibility

Wide, flat-blade tab terminals

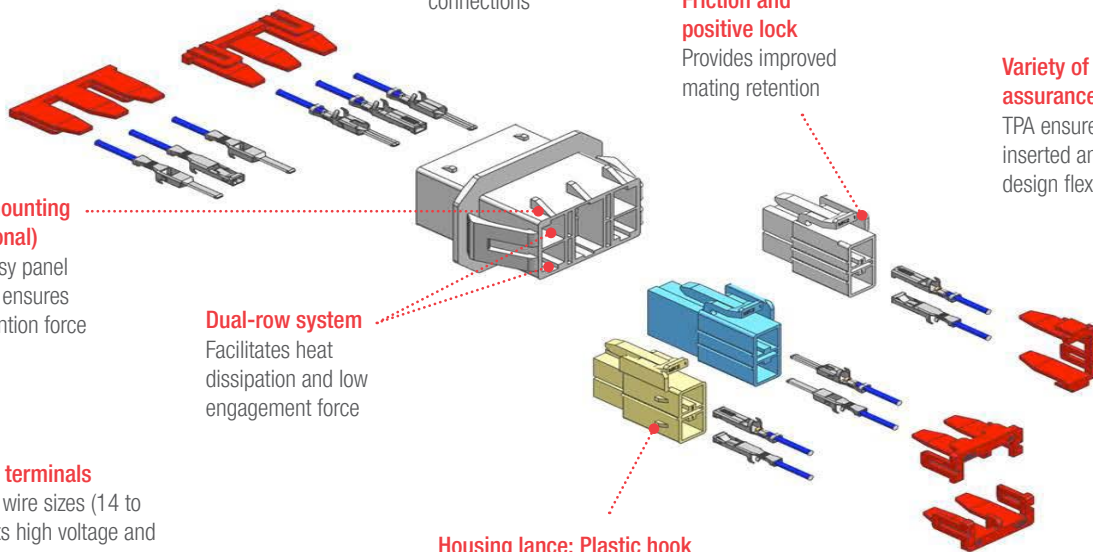
Accept wide range of wire sizes (14 to 24 AWG) and supports high voltage and current (300V/15A).

Housing lance: Plastic hook captures the hole on terminal

Improves terminal-to-housing retention and eliminates flares or weak metal tangs



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Applications

Consumer / Home Appliance

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



Appliances



Exercise Equipment



Printer

Data / Computing

- Copiers

Medical

- Medical equipment

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Specifications

REFERENCE INFORMATION

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

ELECTRICAL

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

MECHANICAL

Contact Insertion Force (max.): 3.5kgf
Contact Retention to Housing (min.): 4.0kgf
Durability (max.): 30 Cycles

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:
PBT: -40 to +120°C
GWIT: -40 to +110°C

Ordering Information

Product Type		Series No.	Description	Available Circuit or Wire Size
Housing	Standard	35150	Hybrid standard receptacle housing	1,2,3,4,6 circuits
		35151	Hybrid standard plug housing	1,2,3,4,6 circuits
	Multi Module	35965	Hybrid multi-module plug housing	2 circuit
		35180	Hybrid multi-module receptacle housing	4,6 circuits
		204102	Hybrid multi-module housing	2,4,6 circuits
		35524	Hybrid multi-module housing	9 circuit
		202650	Hybrid multi-module housing (full flange)	9 circuit
Terminal		35745	Male terminal with dimple design	14 to 24 AWG
		35746	Female terminal with dimple design	14 to 24 AWG
		35747	Male terminal without dimple design	14 to 24 AWG
		35748	Female terminal without dimple design	14 to 24 AWG
TPA		35150-0x9x	TPA for standard/multi-module housing	2,3 circuits
		35182	TPA for standard/multi-module housing	1,2,3 circuits
		35965-029x	TPA for multi-module housing	2 circuit
		104081	TPA for multi-module housing	2 circuit
		35187	TPA for multi-module housing	3 circuit
		49547/ 49548	TPA for multi-module housing (upper/lower)	3 circuit

www.molex.com/product/versablade.html

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