VersaBlade Wire-to-Wire Connector System

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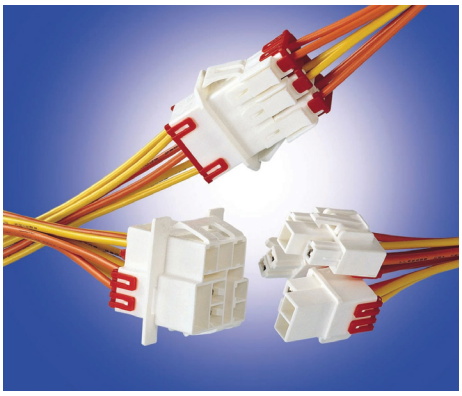
VersaBlade Wire-to-Wire Connector System enables reliable signal and power transmission at 300V and 15A with superior mating reliability, polarization and easy harness assembly



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Features and Advantages

Multi-branched wiring capabilities
Offers harness design options to reduce time and cost

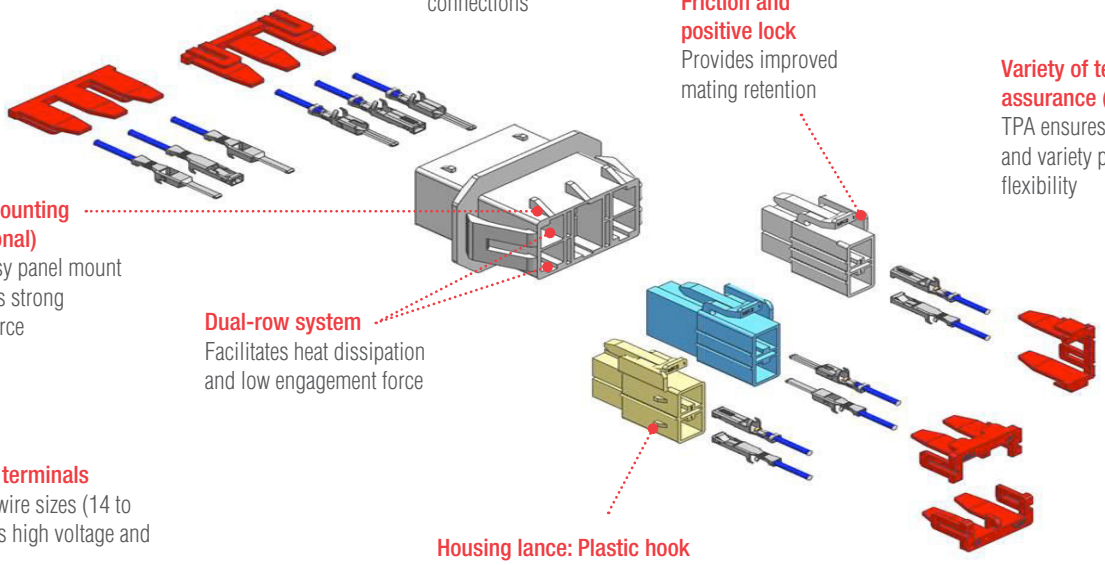
Polarized housing and terminal dimple
Prevents incorrect connector insertion and mating

Terminals can be crimped with two wires
Enables daisy-chain connections

Glow-wire-capable housing (optional)
Meets global safety and environmental requirements

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



Snap-in mounting ears (optional)
Enables easy panel mount and ensures strong retention force

Dual-row system
Facilitates heat dissipation and low engagement force

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

Applications

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

Data / Computing
- Copiers

Medical
- Medical equipment

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
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

Series No.	Type	Component	Available Circuit or Wire Size
35150	Standard housing	Standard plug housing and TPA	1, 2, 3, 4, 6 circuits
35151		Standard receptacle housing	1, 2, 3, 4, 6 circuits
35180	Hybrid housing	Hybrid multi-module male housing	4, 6 circuits
35182		TPA for standard male and female housing	1, 2, 3 circuits
35187		TPA for hybrid multi-module female housing	3 circuits
35524		Hybrid multi-module male housing	9 circuits
35745	Terminal	Male terminal, type A	14 to 24 AWG
35746		Female terminal, type A	14 to 24 AWG
35747		Male terminal, type B	14 to 24 AWG
35748		Female terminal, type B	14 to 24 AWG
35965	TPA	Hybrid multi-module female housing and TPA	2 circuits
49547		TPA, upper, for hybrid multi-module female housing	3 circuits
49548		TPA, lower, for hybrid multi-module female housing	3 circuits
104081		TPA for standard female housing	2 circuits
204102	Hybrid housing	Hybrid multi-module male housing	2, 4, 6 circuits
202650		Hybrid multi-module male housing	9 circuits

www.molex.com/product/versablade.html

Order No. 987651-3631 Rev. 2 USA/GF/2018.10