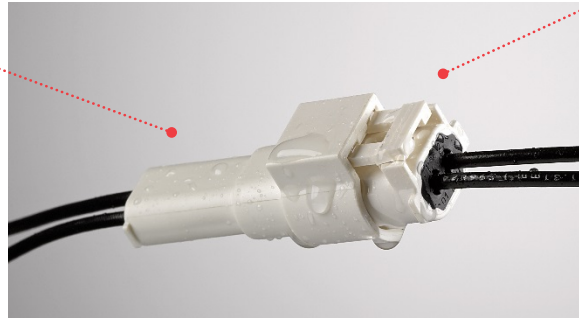# ValuSeal
Wire-to-Wire Connector System

molex®

Achieve industry-leading cost efficiencies plus IP65 sealing protection with the innovative, one-piece ValuSeal Wire-to-Wire Connector, ideal for consumer, non-automotive transportation and industrial applications

Features and Benefits

Integrated wire strain-relief in the connector body
Prevents over-bending and wire failure at the connector body. Eliminates leak-paths often found in other connector systems

Crimp-and-poke insertion
Simplifies wire assembly for added cost efficiency. Eliminates the need for manual terminal orientation

IP65-rated, integrated wire-and-ring seal (for wire types: 16 AWG UL1061, 18 AWG UL1007, 18 AWG UL1095)
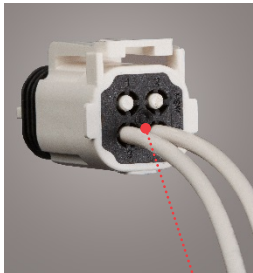Eliminates ingress of dust and protects against low-pressure jets of water from all directions. Operates in harsh, wet environments. Creates design and cost efficiencies

Compact 4.00mm pitch
Enhances design flexibility in applications where space is severely limited

One-piece housing design
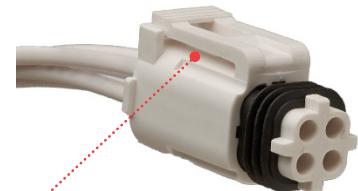Simplifies assembly process to create cost savings. Boosts efficiency by reducing number of components

2-and 4-circuit versions available
Offers design flexibility

Cavity plugs available
Prevent water ingress via unused circuits

Positive latch
Ensures proper mating and high retention force between the plug and receptacle

Applications

Consumer Appliances
- Washers
- Refrigerators
- HVAC Equipment

Commercial Vehicle (Non-Automotive Transportation)
- ATV / Motorcycles / Watercraft
- Marine; Under Dash Wiring, Engines
- Forklifts, Trucks, Trailers, Buses
- Aviation
- RVs

Industrial
- Robotics
- Industrial Machines and Motors
- Food Processing Equipment/Plants
- Industrial Controls

Medical
- Disposable Equipment
- In-Room / Patient Monitoring Equipment

Others
- Outdoor Lighting
- Smart Metering
- Lawn and Garden Tractors

Marine

HVAC Equipment

Home Appliance

Tractors

ValuSeal
Wire-to-Wire Connector System

molex®

Specifications

REFERENCE INFORMATION
Packaging: Bulk/Tray
UL File No.: E29179
Designed In: Millimeters
RoHS: Yes
Halogen Free: No
Glow Wire Compliant: No
NEMA Rating: IP65 (for wire types:
    16 AWG UL1061, 16 AWG UL1007,
    18 AWG UL1007, 18 AWG UL1095)

MECHANICAL
Contact Insertion Force (max.): 45N
Contact Retention to Housing (min.): 35N
Mating Force (max.): 50N
Unmating Force (min.): 14N
Durability (max.): 25 cycles

ELECTRICAL
Voltage (max.): 750V
Current (max.): 11.5A
    (2-Circuit Version with 16 AWG Wire)
Contact Resistance: 10 milliohms
Insulation Resistance (min.): 1000 Megohms
Dielectric Withstanding Voltage: 1500V AC
Wire Gauge Range: 16 to 18 AWG

PHYSICAL
Housing: Polypropylene
Contact: Copper (Cu) Alloy
Plating:
    Contact Area — Tin
Operating Temperature: -40 to +85°C

Ordering Information

Series No.	Component	Gender	Circuit Size	Wire Gauge
172877	Housing	Male	2 (1x2) and 4 (2x2)	---
172878		Female		
173041	Terminal	Male	---	16 to 18 AWG
173042		Female		
173061	Cavity Plug	Used in Plug and Receptacle	All	---

www.molex.com/link/valuseal.html