

ValuSeal

Wire-to-Wire Connector System

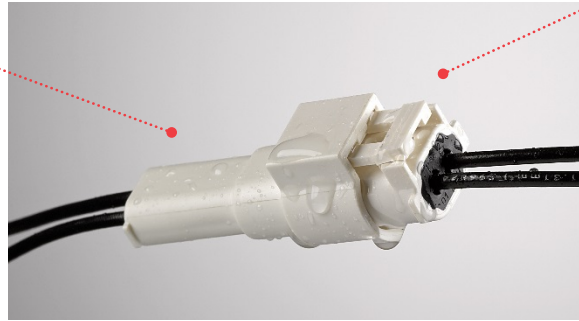
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Achieve industry-leading cost efficiencies plus IP65 sealing protection with the innovative, one-piece ValuSeal Wire-to-Wire Connector, ideal for consumer, non-automotive transportation and industrial applications

Features and Advantages

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

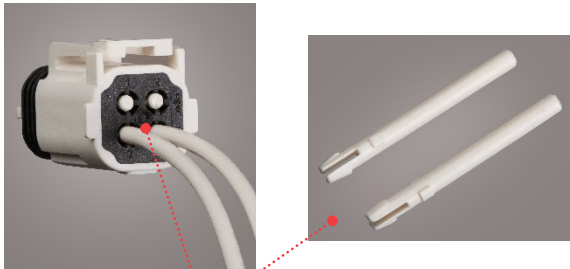
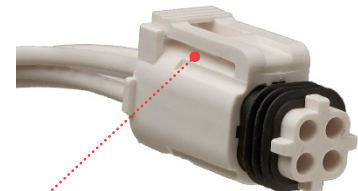
Enhances design flexibility in applications where space is severely limited

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

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	---