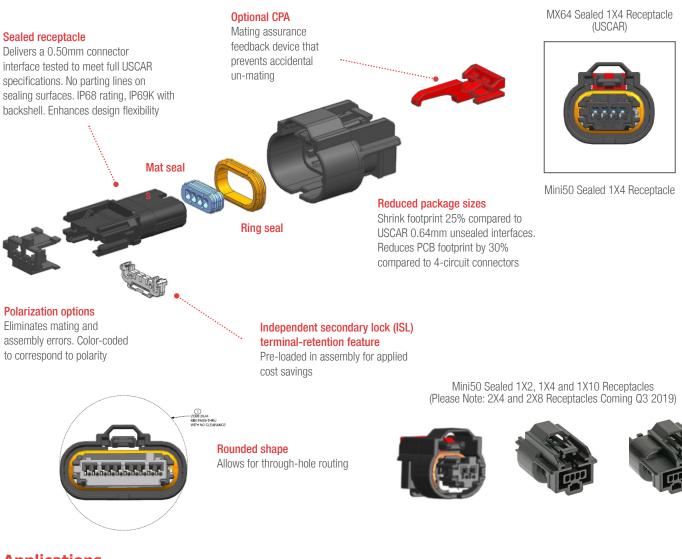
Mini50 Sealed **Wire-to-Device Receptacle**

Delivering significant space savings over traditional USCAR 0.64mm connectors, Mini50 Sealed Wire-to-Device Receptacles utilize smaller pins, terminals and wire gauges while providing protection from water and dust ingress

Features and Benefits



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Applications

Automotive and Transportation

Power Steering Cameras Sensors (parking, radar, etc). Braking Exterior Lighting Mirrors



Exterior/Mirrors/Cameras



Automotive Industry



Lighting

Mini50 Sealed Wire-to-Device Receptacle

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Specifications

REFERENCE INFORMATION Packaging: Housings – Bulk pack Terminals – Reel and loose piece Use With Terminals: Female Series 34905 Designed in: Millimeters Dimensions: 1x2: Height 16.30; Length 14.50; Depth: 28.00mm 1x4: Height 16.60; Length 18.40; Depth 28.00mm 1x10: Height 16.60; Length 29.20; Depth 28.00mm

PHYSICAL

Receptacle Housings: High Temperature Thermoplastic Contact: Copper (Cu) Alloy Plating: Contact Area — Tin (Sn) or Silver (Ag) Wire Gauge: 0.13mm² to 0.35mm² Insulation Diameter: 1.40mm to 0.95mm Operating Temperature: With Tin Terminal: -40 to +105°C With Silver Terminals: -40 to +125°C

ELECTRICAL

Voltage (max.): 14V DC Current (max.): 4.0A Contact Resistance (max.): 20 milliohms Dielectric Withstanding Voltage (min.): 1000V AC Isolation Resistance (min.): 100 Megohms @ 500V DC

ELECTRICAL / MECHANICAL

Durability (max.): 20 milliohms Mating cycles (max.): 10 High-Temperature Exposure, 1008 hours (USCAR-2, GMW3191): Post test resistance (max.) – 20 milliohms Isolation resistance (max.) - 100 Megohms @ 500V DC Temp / Humidity Cycling, 240 hours (USCAR-2, GMW3191): Post test resistance (max.) - 20 milliohms Isolation resistance (max.) - 100 Megohms @ 500V DC Terminal Retention (min.) = 50N Thermal Shock; class 2/3 300 cycles (USCAR-2, GMW3191): Post test resistance (max.) - 20 milliohms Isolation resistance (max.) - 100 Megohms @ 500V DC Terminal Retention (min.) = 30N Vibration / Mechanical Shock (Not Coupled to Engine): (USCAR-2, GMW3191): Post test resistance (max.) - 20 milliohms Thermal Aging at Max Temp 1008 hours @ 125°C 28kPa for 15 sec. min. Submersion for 30 minutes Isolation Resistance (min.): 100 Megohms @ 500V DC

ELECTRICAL / MECHANICAL

Current Capability: (USCAR-2, GMW3191): Temperature rise over ambient < 55°C Post test resistance (max.) – 20 milliohms Terminal – Connector Insertion Force (USCAR-2, GMW3191): Insertion Force (max.) = 5NPrimary Retention Force (min.) = 20N Secondary Retention Force (min.) = 60N Mating Force (USCAR-2, GMW3191) (max.): 45N (1x4) 75N (1x10) Unmating Force (USCAR-2) (max.): 75N Connector Drop Test: (USCAR-2): Post test visual inspection Polarization Feature Effectiveness (USCAR-2): $min = 3^*$ mate force

SEALING

Sealing Class: 2 (IP68) without Backshell after 2 service cycles

Ordering Information

SEALED RECEPTACLES

Series No.	Component	Rows	Circuit Sizes
<u>34967</u>	Sealed Receptacles	Single	2, 4 and 10

CTX50 SEALED TERMINALS

Series No.	Plating	Wire Gauge (mm²)	Wound Direction / Payoff Direction
<u>34905</u>	Tin or Silver	0.08 to 0.13	D=Left; B=Right
		0.22 to 0.35	

Note: Reference PS-34791-000 for all validated wire types.

SERVICE TOOL FOR MINI50 SEALED

Part No.	Component	
<u>63824-7500</u>	Extraction Tool for CTX50 Contacts for Mini50 Sealed Receptacle	

www.molex.com/link/mini50.html

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