

## Automotive Products

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Molex is a major force in the global automotive interconnection business. For good reason: we offer vehicle manufacturers and their suppliers comprehensive capabilities, from extensive research and development to design engineering, rapid prototyping and high-volume production. And, as the world's number two connector manufacturer, we apply breakthroughs in non-automotive technology to the car.

With 115 facilities in 21 countries on six continents, Molex designs, manufactures and services customers everywhere they manufacture and assemble.

Our automotive design teams in Technical Centers around the world are linked electronically to share expertise and expedite development. All of our manufacturing sites are ISO 9000 and QS 9000 certified.

The average new vehicle today contains twice as many Molex connectors as only three years ago. As electronic content increases, Molex is responding with innovative products that simplify the electrical distribution systems in vehicles, significantly reduce weight and packaging space and boost performance and reliability. Many products incorporate our proprietary technologies in shielding, filtering and assembly.

Our 1999 acquisition of Cardell Corporation further broadened our product range, especially in terminal systems, and gave us a strong Detroit manufacturing base, with particular capability in insert molding. In addition, through Origin Modular Interconnects, Inc.—our joint venture with Sheldahl, Inc.—we are applying new flex circuitry technology to replace wire harnesses with lighter, space-saving flex-based harnessing systems.

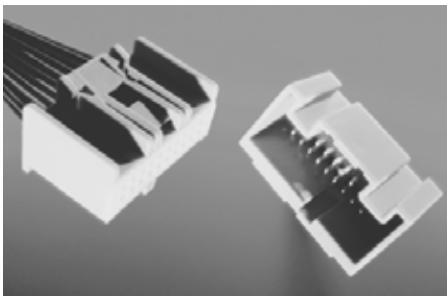
As a technology and new product resource for the world's major vehicle manufacturers and Tier 1 suppliers, Molex provides interconnects and systems for virtually every part of a vehicle, bumper to bumper.



### Safety

Air bags, ABS brakes, vehicle stability systems and other passenger safety equipment have become essential to the appeal and function of today's vehicles. Molex connectors provide the reliability and performance demanded by these often life-saving devices.

For that reason, we continuously improve our safety equipment connectors through extensive R&D, stringent quality controls in every phase of development and manufacture, and extensive reliability testing at our internal laboratories. Our engineers employ advanced quality planning disciplines throughout the development process and carefully design and optimize manufacturing systems for high quality and productivity.



### Driver Information Systems/Audio/Air Control

Drivers want the comforts of home and the communications technology of an office with them on the road. For that reason, navigation devices, vehicle information centers, cellular phones, audio systems and individual passenger HVAC are reshaping the passenger compartment.

Molex's success in connector miniaturization gives automotive packaging designers space-saving ideas. For example, designers increasingly are choosing Molex connectors for telematic applications such as Driver Information Systems, Intelligent Vehicle Highway Systems, Global Positioning Systems, emergency locator systems and silent anti-theft systems. We also offer connectors for multi-disc CD changers and in-steering-wheel audio and climate controls. In addition, our strong position in cellular phone connectors extends to in-vehicle applications such as phone cradles and headsets that provide hands-free communication while driving.

Molex's groundbreaking work with consumer electronics manufacturers over the past decade has led to dramatic reductions in the size and weight of products such as camcorders and cellular phones, while increasing the number of circuits. We have applied these advances to decreasing the space required by connectors in driver information, audio and air-control systems.

Molex is an active participant in a variety of industry standards committees whose focus is telematics, the term for automotive multimedia. Committees such as the SAE/Intelligent Data Bus MOST (media oriented systems transport) and IEEE 1394 are working to define the standards that will enable integrated voice, video and data communication within the vehicle. Drivers and passengers will be able to power devices such as hands-free cellular phones, PDAs, laptops, video games and movies through the vehicle's electronic systems. Whether the devices are embedded into the vehicle or hot plug and play, Molex is at the forefront of developing the proper optical and copper interconnects.

### Control Modules

For the next generation of control module connectors, Molex is now addressing design challenges such as reducing pin size to yield higher pin densities and combating the high vibration and temperature conditions of on-engine applications.

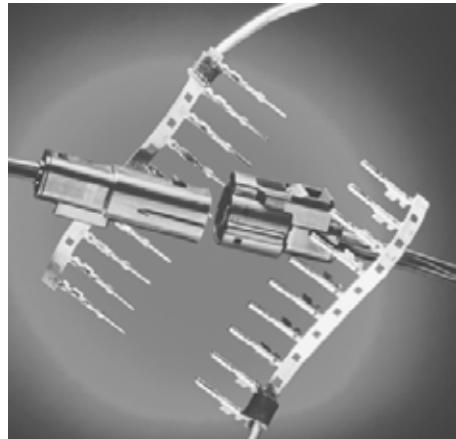
Molex also produces a variety of control module connectors for ABS, electronic hydraulic power steering units, and memory feeds for seats, mirrors and other passenger conveniences.

### Body-Chassis

Molex manufactures connectors for body and chassis harnesses that perform under the harshest conditions. We employ the latest technology to advance our molding, stamping, plating and assembly processes to produce rugged, durable connectors that withstand the rigors of the assembly environment and the road.

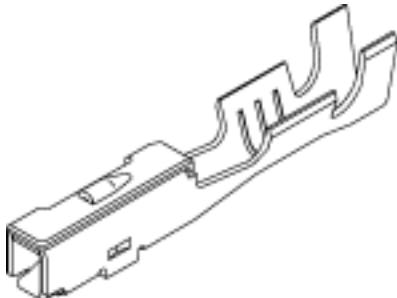
With the trend toward more electronics-incorporated vehicles, Molex has played a key role in developing connectors for electronic control modules. These include manufacturing the housing and I/O connectors that control alarm systems, door zone functions, trunk openings and mirror movement. In many cases, Molex can combine separate parts into a single insert molding or assembly.

Other Molex products for body and chassis applications include electrical junction boxes that integrate connectors, fuses, busses and relays into a complete system, as well as plastic fuel pump flange assemblies, which are lighter in weight and a cost-effective alternative to steel.



# 1.00mm (.040") Tab Terminal

**50654**  
Female



## Features and Benefits

- Locking tab secures terminal to housing

## Reference Information

Product Specification: PS-68145-002  
Packaging: Reel  
Mates With: 50660 Terminal  
Use With: 35563, 35564, 35896, 35898, 49014, 64002  
and 68508 housings  
Designed In: Millimeters

## Electrical

Voltage: 14V  
Current: 5.0A max.  
Contact Resistance: 10 milliohms max.  
Dielectric Withstanding Voltage: 1000V AC  
Insulation Resistance: 100 Megohms min.

## Physical

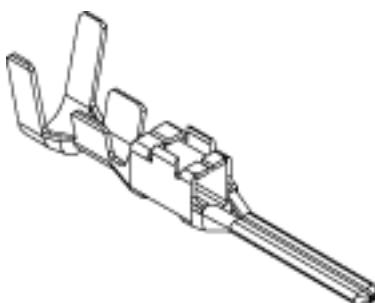
Contact: Copper Alloy  
Plating: Contact Area—Pre-Tin  
Operating Temperature: -40 to +85°C

Order No.	Wire Range (mm <sup>2</sup> )	Lead-free
<a href="#">50654-1001</a>	AVS (AVSS) 0.3-0.5	Yes

[www.molex.com/customer.html?seriesNumber=50654](http://www.molex.com/customer.html?seriesNumber=50654)

# 1.00mm (.040") Tab Terminal

**50660**  
Male



## Features and Benefits

- Locking tab secures terminal to housing

## Reference Information

Product Specification: CS-50660-001  
Packaging: Reel  
Mates With: 50654 terminal  
Use With: 35897, 35899, 49016, 49102 and 68507  
housings  
Designed In: Millimeters

## Electrical

Voltage: 14V  
Current: 5.0A max.  
Contact Resistance: 10 milliohms max.  
Dielectric Withstanding Voltage: 1000V AC  
Insulation Resistance: 100 Megohms min.

## Mechanical

Contact Insertion Force: 1.5 kgf max.  
Contact Retention to Housing: 8.0 kgf min.  
Mating Force: 15 kgf max.  
Unmating Force: 15 kgf max.  
Durability: 50 cycles

## Physical

Contact: Brass  
Plating: Contact Area—Pre-Tin  
Operating Temperature: -40 to +85°C

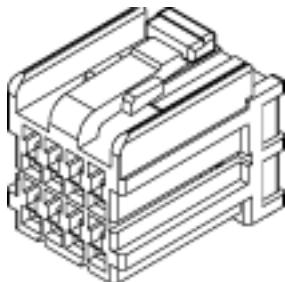
Order No.	Wire Range (mm <sup>2</sup> )	Lead-free
<a href="#">50660-9001</a>	AVS (AVSS) 0.3-0.5	Yes

[www.molex.com/customer.html?seriesNumber=50660](http://www.molex.com/customer.html?seriesNumber=50660)



# 1.00mm (.040") Tab Wire-to-Wire/ Wire-to-Board 040 111 Housing

**68508/64002/35563/35564**  
**Female, 2 Rows**



Circuits	Order No.	Color
8	<a href="#">68508-0811</a>	Black
12	<a href="#">64002-1210</a>	
16	<a href="#">35563-1610</a>	
20	<a href="#">35564-2010</a>	

## Features and Benefits

- Meets industry-standard requirements for 040 automotive interface
- Side Terminal Position Assurance (TPA) feature virtually eliminates terminal backout
- Rugged contact design offers increased life cycle durability and mechanical and electrical reliability
- Fully shrouded to protect contacts

## Reference Information

Product Specification: PS-68145-001  
Packaging: Bag  
Mates With: 53874, 68145 and 68151  
Use With: 50654  
Designed In: Millimeters

## Electrical

Voltage: 14V  
Current: 5.0A max.  
Contact Resistance: 10 milliohms max.  
Dielectric Withstanding Voltage: 1000V AC  
Insulation Resistance: 100 Megohms min.

## Mechanical

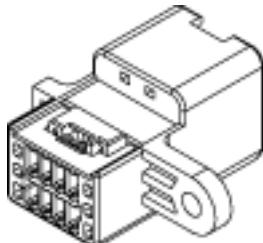
Contact Insertion Force: 1.5 kgf max.  
Contact Retention to Housing: 8.0 kgf min.  
Mating Force: 15 kgf max.  
Unmating Force: 15 kgf max.  
Durability: 50 cycles

## Physical

Housing: Polyester, UL 94-HB  
Operating Temperature: -40 to +85°C

# 1.00mm (.040") Tab Wire-to-Wire 040 III Housing

**68507**  
**Male, 8 Circuits, 2 Rows**



## Features and Benefits

- Meets industry-standard requirements for 040 automotive interface
- Side Terminal Position Assurance (TPA) feature virtually eliminates terminal backout
- Rugged contact design offers increased life cycle durability, and mechanical and electrical reliability
- Side flange provides panel mounting retention
- Fully shrouded to protect contacts

## Reference Information

Product Specification: PS-35896-001 and PS-68507-003  
Packaging: Bag  
Mates With: 68508  
Use With: 50654 and 50660  
Designed In: Millimeters

## Electrical

Voltage: 14V  
Current: 5.0A max.  
Contact Resistance: 10 milliohms max.  
Dielectric Withstanding Voltage: 1000V AC  
Insulation Resistance: 100 Megohms min.

## Mechanical

Contact Insertion Force: 1.5 kgf max.  
Contact Retention to Housing: 8.0 kgf min.  
Mating Force: 10 kgf max.  
Unmating Force: 10 kgf max.  
Durability: 50 cycles

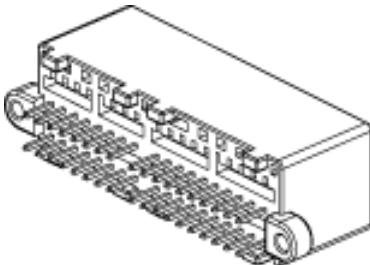
## Physical

Housing: Polyester, UL 94-HB  
Operating Temperature: -40 to +85°C

Circuits	Order No.	Type
8	<a href="#">68507-0811</a>	Screw
	<a href="#">68507-0821</a>	Clip

# 1.00mm (.040") Tab Wire-to-Board 040 III Header

**68145/68151-XX1X**  
Vertical



Circuits	Order No.	Lead-free
8	<a href="#">68145-0811</a>	Yes
12	<a href="#">68145-1211</a>	
16	<a href="#">68145-1615</a>	
20	<a href="#">68151-2015</a>	
28	<a href="#">68145-2815</a>	
36	<a href="#">68145-3615</a>	

## Features and Benefits

- Meets industry-standard requirements for 040 automotive interface
- Side Terminal Position Assurance (TPA) feature virtually eliminates terminal backout
- Rugged contact design offers increased life cycle durability and mechanical and electrical reliability
- Fully shrouded to protect contacts

## Electrical

Voltage: 14V  
Current: 5.0A max.  
Contact Resistance: 10 milliohms max.  
Dielectric Withstanding Voltage: 1000V AC  
Insulation Resistance: 100 Megohms min.

## Mechanical

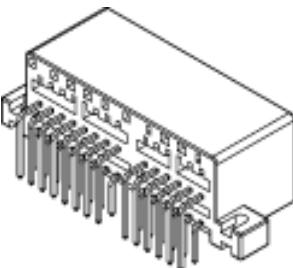
Contact Insertion Force: 1.5 kgf max.  
Contact Retention to Housing: 8.0 kgf min.  
Mating Force: 15 kgf max.  
Unmating Force: 15 kgf max.  
Durability: 50 cycles

## Physical

Housing: Polyester, UL 94-HB  
Contact: Brass  
Plating: Contact Area—Tin  
Solder Tail Area—Tin  
Underplating: Copper  
PCB Thickness: 1.6mm (.062")  
Operating Temperature: -40 to +85°C

# 1.00mm (.040") Tab Wire-to-Board 040 III Header

**68145/68151-XX2X**  
Right Angle



Circuits	Order No.	Lead-free
8	<a href="#">68145-0821</a>	Yes
12	<a href="#">68145-1221</a>	
16	<a href="#">68145-1625</a>	
20	<a href="#">68151-2025</a>	
28	<a href="#">68145-2825</a>	
36	<a href="#">53874-3615</a>	

## Features and Benefits

- Meets industry-standard requirements for 040 automotive interface
- Side Terminal Position Assurance (TPA) feature virtually eliminates terminal backout
- Rugged contact design offers increased life cycle durability and mechanical and electrical reliability
- Fully shrouded to protect contacts

## Electrical

Voltage: 14V  
Current: 5.0A max.  
Contact Resistance: 10 milliohms max.  
Dielectric Withstanding Voltage: 1000V AC  
Insulation Resistance: 100 Megohms min.

## Mechanical

Contact Insertion Force: 1.5 kgf max.  
Contact Retention to Housing: 8.0 kgf min.  
Mating Force: 15 kgf max.  
Unmating Force: 15 kgf max.  
Durability: 50 cycles

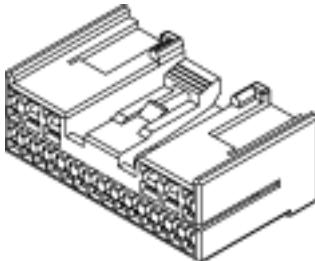
## Physical

Housing: Polyester, UL 94-HB  
Contact: Brass  
Plating: Contact Area—Tin  
Solder Tail Area—Tin  
Underplating: Copper  
PCB Thickness: 1.6mm (.062")  
Operating Temperature: -40 to +85°C

# 1.00/2.30mm (.040/.090") Tab Wire-to-Wire 0409 Hybrid Housing

**49014/35898/35896**

**Female**



Circuits	Order No.
10	<a href="#">49014-1010</a>
14	<a href="#">35898-1410</a>
20	<a href="#">35896-2010</a>
22	<a href="#">35896-2210</a>
24	<a href="#">35896-2410</a>

## Features and Benefits

- Meets industry-standard requirements for 040/090 automotive interface
- Side Terminal Position Assurance (TPA) feature virtually eliminates terminal backout
- Rugged contact design offers increased life cycle durability, and mechanical and electrical reliability
- Side flange provides panel mounting retention
- Fully shrouded to protect contacts

## Reference Information

Product Specification: PS-35896-001 and PS-68507-003  
 Packaging: Bag  
 Mates With: 35897, 35899 and 49016  
 Use With: 35421 and 50654  
 Designed In: Millimeters

## Electrical

Voltage: 14V  
 Current: 5.0A max. (.040")  
 10.0A max. (.090")  
 Contact Resistance: 10 milliohms max.  
 Dielectric Withstanding Voltage: 1000V AC  
 Insulation Resistance: 100 Megohms min.

## Mechanical

Contact Insertion Force: 1.5 kgf max.  
 Contact Retention to Housing: 8.0 kgf min.  
 Mating Force: 18 kgf max.  
 Unmating Force: 10 kgf max.  
 Durability: 50 cycles

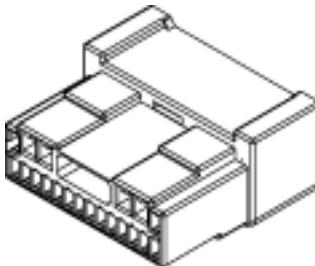
## Physical

Housing: White Polyester, UL 94-HB  
 Operating Temperature: -40 to +88°C

# 1.00/2.30mm (.040/.090") Tab Wire-to-Wire 0409 Hybrid Housing

**49016/35899/35897**

**Male**



## Features and Benefits

- Meets industry-standard requirements for 040/090 automotive interface
- Side Terminal Position Assurance (TPA) feature virtually eliminates terminal backout
- Rugged contact design offers increased life cycle durability, and mechanical and electrical reliability
- Side flange provides panel mounting retention
- Fully shrouded to protect contacts

## Reference Information

Product Specification: PS-68145-002 and PS-68145-005  
 Packaging: Bag  
 Mates With: 49014, 35898 and 35896  
 Use With: 50660 and 57919  
 Designed In: Millimeters

## Electrical

Voltage: 14V  
 Current: 5.0A max. (.040")  
 10.0A max. (.090")  
 Contact Resistance: 10 milliohms max.  
 Dielectric Withstanding Voltage: 1000V AC  
 Insulation Resistance: 100 Megohms min.

## Mechanical

Contact Insertion Force: 1.5 kgf min.  
 Contact Retention to Housing: 8.0 kgf min.  
 Mating Force: 18 kgf max.  
 Unmating Force: 18 kgf max.  
 Durability: 50 cycles

## Physical

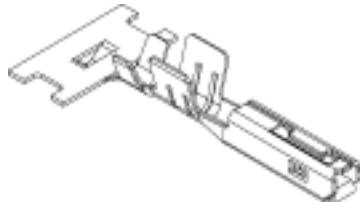
Housing: Polyester, UL 94-HB  
 Operating Temperature: -40 to +85°C

Circuits	Order No.
10	<a href="#">49016-1010</a>
14	<a href="#">35899-1410</a>
20	<a href="#">35897-2010</a>
22	<a href="#">35897-2210</a>
24	<a href="#">35897-2410</a>

# 1.50mm (.591") Pitch MX150™ Terminals

**33001/33012/  
34081/34083**

**Female**



## Features and Benefits

- Meets USCAR performance testing
- Low insertion force
- Multiple plating options
- Strong crimps
- Accommodates SAE and metric wires
- Sealed and unsealed versions
- Lead free

## Reference Information

Packaging: Reel

Mates With: MX150 plastic series 33471, 33472, 33476, 34062 and 34250

Designed In: Millimeters

## Electrical

Voltage: 250V

Current: 22.0A

Contact Resistance: 20 milliohms max.

Dielectric Withstanding Voltage: 500V DC

Insulation Resistance: 20 Megohms min.

## Mechanical

Contact Insertion Force: 3.0N average

Wire Pull-Out Force: 14 AWG—180N min.

22 AWG—70N

Mating Force: 3.0N average

Unmating Force: 3.0N average

Normal Force: 6.0N average

## Physical

Contact: Copper Alloy

Plating: Tin or Gold

Wire Gauge: 14 to 22 AWG (max. O.D. = 2.49mm)

Operating Temperature: -40 to +125°C

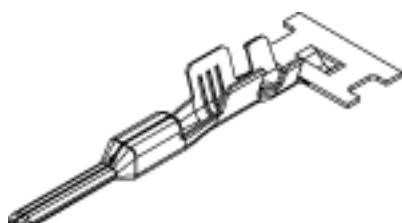
Order No.	Description	Grip Size	Plating/Payoff
<a href="#">33001-2003</a>	Matte Seal Female Terminal	14/16 AWG	Gold/Right to Left
<a href="#">33001-2004</a>		18/20 AWG	
<a href="#">33001-2005</a>		22 AWG	
<a href="#">33001-3003</a>		14/16 AWG	Gold/Left to Right
<a href="#">33001-3004</a>		18/20 AWG	
<a href="#">33001-3005</a>		22 AWG	
<a href="#">33001-2021</a>	Unsealed Female Terminal	14/16 AWG	Gold/Right to Left
<a href="#">33001-2022</a>		18/20 AWG	
<a href="#">33001-2023</a>		22 AWG	
<a href="#">33001-3021</a>		14/16 AWG	Gold/Left to Right
<a href="#">33001-3022</a>		18/20 AWG	
<a href="#">33001-3023</a>		22 AWG	
<a href="#">33012-2001</a>	Matte Seal Female Terminal	14/16 AWG	Tin/Right to Left
<a href="#">33012-2002</a>		18/20 AWG	
<a href="#">33012-2003</a>		22 AWG	
<a href="#">33012-3001</a>		14/16 AWG	Tin/Left to Right
<a href="#">33012-3002</a>		18/20 AWG	
<a href="#">33012-3003</a>		22 AWG	

Order No.	Description	Grip Size	Plating/Payoff
<a href="#">33012-2021</a>	Unsealed Female Terminal	14/16 AWG	Tin/Right to Left
<a href="#">33012-2022</a>		18/20 AWG	
<a href="#">33012-2023</a>		22 AWG	
<a href="#">33012-3021</a>		14/16 AWG	Tin/Left to Right
<a href="#">33012-3022</a>		18/20 AWG	
<a href="#">33012-3023</a>		22 AWG	
<a href="#">34081-2003</a>	Cable Seal Female Terminal	16 AWG	Gold/Right to Left
<a href="#">34081-2004</a>		18/20 AWG	
<a href="#">34081-2005</a>		22 AWG	
<a href="#">34081-3003</a>		16 AWG	Gold/Left to Right
<a href="#">34081-3004</a>		18/20 AWG	
<a href="#">34081-3005</a>		22 AWG	
<a href="#">34083-2001</a>		16 AWG	Tin/Right to Left
<a href="#">34083-2002</a>		18/20 AWG	
<a href="#">34083-2003</a>		22 AWG	
<a href="#">34083-3001</a>		16 AWG	Tin/Left to Right
<a href="#">34083-3002</a>		18/20 AWG	
<a href="#">34083-3003</a>		22 AWG	

# 1.50mm (.591") Pitch MX150™ Terminals

**33000/33011**

**Male**



## Features and Benefits

- Meets USCAR performance testing
- Low insertion force
- Multiple plating options
- Strong crimps
- Accommodates SAE and metric wires
- Lead free

## Reference Information

Packaging: Reel

Mates With: MX150 plastic series 33481, 33482 and 33486

Designed In: Millimeters

## Electrical

Voltage: 250V

Current: 22.0A

Contact Resistance: 20 milliohms max.

Dielectric Withstanding Voltage: 500V DC

Insulation Resistance: 20 Megohms min.

## Mechanical

Contact Insertion Force: 3.0N average

Wire Pull-Out Force: 14 AWG—180N min.

22 AWG—70N

Mating Force: 3.0N average

Unmating Force: 3.0N average

Normal Force: 6.0N average

## Physical

Contact: Copper Alloy

Plating: Tin or Gold

Wire Gauge: 14 to 22 AWG (max O.D. = 2.49mm)

Operating Temperature: -40 to +125°C

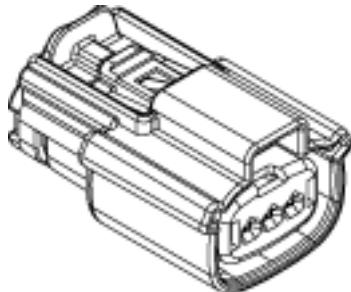
Order No.	Description	Grip Size	Plating/Payoff
<a href="#">33000-0001</a>	Matte Seal/Unsealed Male Terminal	14 AWG	Tin/Right to Left
<a href="#">33000-0002</a>		16/18/20 AWG	
<a href="#">33000-0003</a>		22 AWG	
<a href="#">33011-1002</a>		14 AWG	Gold/Right to Left
<a href="#">33011-1004</a>		16/18/20 AWG	
<a href="#">33011-1006</a>		22 AWG	
<a href="#">33000-1001</a>	Matte Seal/Unsealed Male Terminal	14 AWG	Tin/Left to Right
<a href="#">33000-1002</a>		16/18/20 AWG	
<a href="#">33000-1003</a>		22 AWG	
<a href="#">33011-0002</a>		14 AWG	Gold/Left to Right
<a href="#">33011-0004</a>		16/18/20 AWG	
<a href="#">33011-0006</a>		22 AWG	

# 3.50mm (.138") Pitch MX150™ Sealed Connectors

**33471 Female**

**33481 Male**

**Single Row**



## Features and Benefits

- Meets USCAR performance requirements
- Smallest 1.50mm (.059") sealed connector in the market
- Terminal retention is 2x industry standard
- Matte seal design
- Polarization options available
- Available with or without CPA
- Clip slot standard on male side

## Reference Information

- Packaging: Bulk  
Mates With: 33471 and 33481  
Use With: MX150 terminals  
Designed In: Millimeters

## Electrical

- Voltage: 250V  
Current: 22.0A  
Contact Resistance: 20 milliohms max.  
Dielectric Withstanding Voltage: 500V DC  
Insulation Resistance: 20 Megohms min.

## Mechanical

- Contact Insertion Force: Less than 15N  
Contact Retention to Housing: 110N min.  
Wire Pull-Out Force: 90N min.  
Mating Force: 75N max.  
Unmating Force: 75N max.  
Normal Force: Terminal dependent

## Physical

- Housing: 30% glass filled nylon, UL 94-HB  
Contact: Will accommodate Tin, Silver or Gold  
Insulation Diameter: 14 AWG UTX 2.49mm O.D. to  
22 AWG TXL  
Wire Gauge: 14 to 22 AWG and Metric  
Operating Temperature: -40 to +125°C

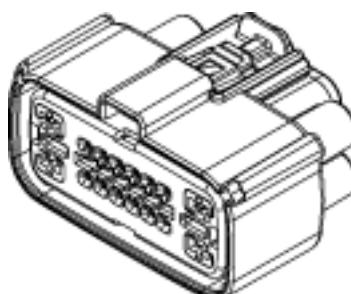
Circuits	Order No.	Description	Color	CPA Option
3	<a href="#">33471-0301</a>	1x3 Female Polarization A	Black	No
	<a href="#">33471-0302</a>	1x3 Female Polarization B	Gray	
	<a href="#">33471-0306</a>	1x3 Female Polarization A	Black	Yes
	<a href="#">33471-0307</a>	1x3 Female Polarization B	Gray	
	<a href="#">33481-0301</a>	1x3 Male Polarization A	Black	No
	<a href="#">33481-0302</a>	1x3 Male Polarization B	Gray	
4	<a href="#">33471-0401</a>	1x4 Female Polarization A	Black	No
	<a href="#">33471-0402</a>	1x4 Female Polarization B	Gray	Yes
	<a href="#">33471-0406</a>	1x4 Female Polarization A	Black	
	<a href="#">33471-0407</a>	1x4 Female Polarization B	Gray	
	<a href="#">33481-0401</a>	1x4 Male Polarization A	Black	No
	<a href="#">33481-0402</a>	1x4 Male Polarization B	Gray	
6	<a href="#">33471-0601</a>	1x6 Female Polarization A	Black	No
	<a href="#">33471-0602</a>	1x6 Female Polarization B	Gray	Yes
	<a href="#">33471-0606</a>	1x6 Female Polarization A	Black	
	<a href="#">33471-0607</a>	1x6 Female Polarization B	Gray	
	<a href="#">33481-0601</a>	1x6 Male Polarization A	Black	No
	<a href="#">33481-0602</a>	1x6 Male Polarization B	Gray	

# 3.50mm (.138") Pitch MX150™ Hybrid Sealed Connectors

**33476 Female**

**33486 Male**

**Dual Row**



## Features and Benefits

- Combines 1.50 and 2.80mm (.059 and .110") terminals in same connector
- Terminal retention is 2x industry standard
- Polarization options available
- Available with or without CPA
- Clip slot standard on male side

## Reference Information

- Packaging: Bag  
Mates with: 33471 and 33481  
Use With: MX150 terminals  
Designed In: Millimeters

## Electrical

- Voltage: 250V  
Current: 22.0A for 1.5mm terminals and 25.0A for 2.8mm terminals  
Contact Resistance: 20 milliohms max.  
Dielectric Withstanding Voltage: 500V DC  
Insulation Resistance: 20 Megohms min.

## Mechanical

- Contact Insertion Force: Less than 15N  
Contact Retention to Housing: 110N min.  
Wire Pull-Out Force: 90N min.  
Mating Force: 75N max.  
Unmating Force: 75N max.  
Normal Force: Terminal dependent

## Physical

- Housing: 30% glass filled nylon, UL 94-HB
- 1.5mm terminals**  
Contact: Tin, Silver or Gold  
Insulation Diameter: 14 AWG UTX 2.49mm O.D. to  
22 AWG TXL  
Wire Gauge: 14 to 22 AWG and Metric
- 2.8mm terminals**  
Contacts: Tin  
Wire Gauge: 12 to 22 AWG  
Operating Temperature: -40 to +125°C

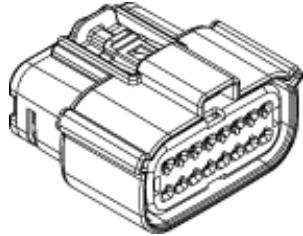
Order No.	Description	Color	CPA Option
<a href="#">33476-1601</a>	2x8 Female Polarization A	Black	No
<a href="#">33476-1602</a>	2x8 Female Polarization B	Gray	
<a href="#">33476-1606</a>	2x8 Female Polarization A	Black	Yes
<a href="#">33476-1607</a>	2x8 Female Polarization B	Gray	
<a href="#">33486-1601</a>	2x8 Male Polarization A	Black	No
<a href="#">33486-1602</a>	2x8 Male Polarization B	Gray	

# 3.50mm (.138") Pitch MX150™ Sealed Connectors

**33472 Female**

**33482 Male**

**Dual Row**

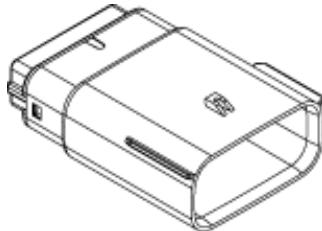


## Features and Benefits

- Meets USCAR footprint and performance requirements
- Smallest 1.50mm (.059") sealed connector in the market
- Terminal retention is 2x industry standard
- Matte seal design
- Polarization options available
- Available with or without CPA
- Clip slot standard on male side

## Reference Information

Packaging: Bag  
Mates With: 33471 and 33481  
Use With: MX150 terminals  
Designed In: Millimeters



## Electrical

Voltage: 250V  
Current: 22.0A  
Contact Resistance: 20 milliohms max.  
Dielectric Withstanding Voltage: 500V DC  
Insulation Resistance: 20 Megohms min.

## Mechanical

Contact Insertion Force: Less than 15N  
Contact Retention to Housing: 110N min.  
Wire Pull-Out Force: 90N min.  
Mating Force: 75N max.  
Unmating Force: 75N max.  
Normal Force: Terminal dependent

## Physical

Housing: 30% glass filled nylon, UL 94-HB  
Contact: Will accommodate Tin, Silver or Gold  
Insulation Diameter: 14 AWG UTX 2.49mm O.D. to 22 AWG TXL  
Wire Gauge: 14 to 22 AWG and Metric  
Operating Temperature: -40 to +125°C

Circuits	Order No.	Description	Color	CPA Option	Circuits	Order No.	Description	Color	CPA Option	
4	33472-0401	2x2 Female Polarization A	Black	No	12	33472-1201	2x6 Female Polarization A	Black	No	
	33472-0402	2x2 Female Polarization B	Gray			33472-1202	2x6 Female Polarization B	Gray		
	33472-0406	2x2 Female Polarization A	Black	Yes		33472-1206	2x6 Female Polarization A	Black	Yes	
	33472-0407	2x2 Female Polarization B	Gray			33472-1207	2x6 Female Polarization B	Gray		
	33482-0401	2x2 Male Polarization A	Black	No		33482-1201	2x6 Male Polarization A	Black	No	
	33482-0402	2x2 Male Polarization B	Gray			33482-1202	2x6 Male Polarization B	Gray		
6	33472-0601	2x3 Female Polarization A	Black	No	16	33472-1601	2x8 Female Polarization A	Black	No	
	33472-0602	2x3 Female Polarization B	Gray			33472-1602	2x8 Female Polarization B	Gray		
	33472-0606	2x3 Female Polarization A	Black	Yes		33472-1606	2x8 Female Polarization A	Black	Yes	
	33472-0607	2x3 Female Polarization B	Gray			33472-1607	2x8 Female Polarization B	Gray		
	33482-0601	2x3 Male Polarization A	Black	No		33482-1601	2x8 Male Polarization A	Black	No	
	33482-0602	2x3 Male Polarization B	Gray			33482-1602	2x8 Male Polarization B	Gray		
8	33472-0801	2x4 Female Polarization A	Black	No	20	33472-2001	2x10 Female Polarization A	Black	No	
	33472-0802	2x4 Female Polarization B	Gray			33472-2002	2x10 Female Polarization B	Gray		
	33472-0806	2x4 Female Polarization A	Black	Yes		33472-2006	2x10 Female Polarization A	Black	Yes	
	33472-0807	2x4 Female Polarization B	Gray			33472-2007	2x10 Female Polarization B	Gray		
	33482-0801	2x4 Male Polarization A	Black	No		33482-2001	2x10 Male Polarization A	Black	No	
	33482-0802	2x4 Male Polarization B	Gray			33482-2002	2x10 Male Polarization B	Gray		

[www.molex.com/ind/mx150.html](http://www.molex.com/ind/mx150.html)

# 3.50 by 6.00mm (.138 by .236") MX150™ Wire-to-Board PCB Header

**75757**

**Unshrouded, Breakaway**



## Features and Benefits

- High-temperature thermoplastic housing is lead-free processing compatible
- Unshrouded design offers customers flexibility in application
- Designed to be compatible with Molex MX150 connectors and accommodates wire-to-board applications
- Compatible with USCAR 1.50mm (.059") specifications
- Unique breakaway design provides ability to break between rows and circuits

## Reference Information

Product Specification: PS-75757-000  
Packaging: Tubes  
UL File No.: Pending  
CSA File No.: Pending  
Mates With: 33471; 33472  
Designed In: Metric

## Electrical

Voltage: ≤500V DC  
Current: 16.0A  
Contact Resistance: 20 milliohms max.  
Dielectric Withstanding Voltage: 1500V  
Insulation Resistance: 20 Megohms min.

## Mechanical

Durability: 25 cycles—Tin; 50 cycles—Gold

## Physical

Housing: LCP, UL 94V-0  
Contact: Copper Alloy  
Plating: Contact Area—Tin or Gold  
Solder Tail Area—Tin  
Underplating—Nickel  
PCB Thickness: .062" or .093/.125"  
Operating Temperature: -40 to +125°C

Tin	Order No.	PCB Thickness	Lead-free
75757-1401	15µm (.590µ") Tin	.062	Yes
75757-1101			
75757-1402	75757-1301	.093/.125	
75757-1102			

[www.molex.com/product/mx150ubbh.html](http://www.molex.com/product/mx150ubbh.html)



**MX07 T-9**

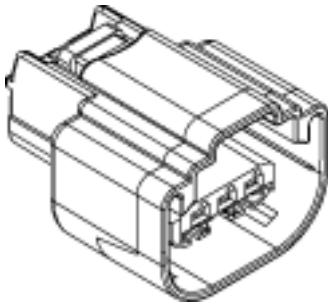
# 4.50mm (.177") Pitch

## MX150™

### Cable Sealed Connector

#### 34250

##### Single Row



#### Features and Benefits

- Compact 1.50mm (.059") terminal connector
- Meets USCAR footprints
- Uses cable sealed terminals
- Available with or without CPA
- Polarization options available
- Single and dual key options

#### Reference Information

Packaging: Bag  
Mates With: Direct connect only  
Designed In: Millimeters

#### Electrical

Voltage: 250V  
Current: 15.0A  
Contact Resistance: 20 milliohms max.  
Dielectric Withstanding Voltage: 500V DC  
Insulation Resistance: 20 Megohms min.

#### Mechanical

Contact Insertion Force: Less than 15N  
Contact Retention to Housing: 100N min.  
Wire Pull-Out Force: 90N min.  
Mating Force: Less than 45N  
Unmating Force: Less than 45N  
Normal Force: Terminal dependent

#### Physical

Housing: PBT + 10% glass filled, UL 94-HB  
Contact: Tin or Gold  
Wire Gauge: 16 to 22 AWG  
Operating Temperature: -40 to +125°C

Order No.	Description	Color	CPA
<a href="#">34250-0001</a>	1x3 Dual Key Polarization A	Black	Yes
<a href="#">34250-0002</a>	1x3 Dual Key Polarization B	Gray	
<a href="#">34250-0003</a>	1x3 Dual Key Polarization C	Brown	
<a href="#">34250-0004</a>	1x3 Dual Key Polarization D	Green	
<a href="#">34250-0017</a>	1x3 Dual Key Polarization A	Black	No
<a href="#">34250-0018</a>	1x3 Dual Key Polarization B	Gray	
<a href="#">34250-0019</a>	1x3 Dual Key Polarization C	Brown	
<a href="#">34250-0020</a>	1x3 Dual Key Polarization D	Green	
<a href="#">34250-0033</a>	1x3 Single Key Polarization A	Black	Yes
<a href="#">34250-0034</a>	1x3 Single Key Polarization B	Gray	
<a href="#">34250-0035</a>	1x3 Single Key Polarization C	Brown	
<a href="#">34250-0036</a>	1x3 Single Key Polarization D	Green	
<a href="#">34250-0049</a>	1x3 Single Key Polarization A	Black	No
<a href="#">34250-0050</a>	1x3 Single Key Polarization B	Gray	
<a href="#">34250-0051</a>	1x3 Single Key Polarization C	Brown	
<a href="#">34250-0052</a>	1x3 Single Key Polarization D	Green	

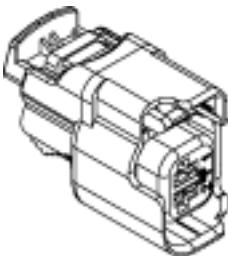
# 5.00mm (.197") Pitch

## MX150™

### Cable Sealed Connector

#### 34062

##### Single Row



#### Features and Benefits

- Compact 1.50mm (.059") terminal connector
- Meets USCAR footprints
- Uses cable sealed terminals
- Available with or without CPA
- Polarization options available

#### Reference Information

Packaging: Bag  
Mates With: Direct connect only  
Designed In: Millimeters

#### Electrical

Voltage: 250V  
Current: 15.0A  
Contact Resistance: 20 milliohms max.  
Dielectric Withstanding Voltage: 500V DC  
Insulation Resistance: 20 Megohms min.

#### Mechanical

Contact Insertion Force: Less than 15N  
Contact Retention to Housing: 100N min.  
Wire Pull-Out Force: 90N min.  
Mating Force: Less than 45N  
Unmating Force: Less than 45N  
Normal Force: Terminal dependent

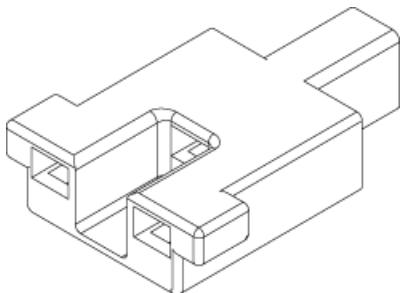
#### Physical

Housing: PBT + 10% glass filled, UL 94-HB  
Contact: Tin or Gold  
Wire Gauge: 16 to 22 AWG  
Operating Temperature: -40 to +125°C

Order No.	Description	Color	CPA
<a href="#">34062-0001</a>	1x2 Polarization A	Black	No
<a href="#">34062-0002</a>	1x2 Polarization B	Gray	
<a href="#">34062-0003</a>	1x2 Polarization C	Black	
<a href="#">34062-0004</a>	1x2 Polarization D	Black	
<a href="#">34062-0005</a>	1x2 Polarization A	Black	Yes
<a href="#">34062-0006</a>	1x2 Polarization B	Gray	
<a href="#">34062-0007</a>	1x2 Polarization C	Black	
<a href="#">34062-0008</a>	1x2 Polarization D	Black	
<a href="#">34062-0009</a>	1x2 Polarization D	Gray	No
<a href="#">34062-0010</a>	1x2 Polarization D	Gray	Yes

## 2.29mm (.090") Diameter Cluster Block Housing

**35573**



Order No.	Description
<a href="#">35573-0300</a>	Without Protector
<a href="#">35573-0310</a>	With Protector

### Features and Benefits

- Connects to sealed hermetic header pins on compressor
- Impervious to oils and refrigerant
- Side grip for easy unmating

### Reference Information

Product Specification: PS-35573-001

Packaging: Bag

Use With: 57920

Designed In: Millimeters

### Electrical

Voltage: 230V

Current: 10.0A

Contact Resistance: 5 milliohms max.

Dielectric Withstanding Voltage: 1000V

### Mechanical

Contact Retention to Housing: 2.27 kgf max.

Mating Force: 13.6 kgf max.

Contact Resistance: 10 milliohms max.

Unmating Force: 4.0 kgf min.

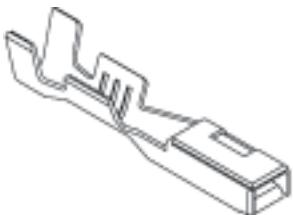
### Physical

Housing: Polyester

[www.molex.com/customer.html?seriesNumber=35573](http://www.molex.com/customer.html?seriesNumber=35573)

## 2.30mm (.090") Tab Terminal

**35421**  
Female



### Features and Benefits

- Housing-locking feature avoids deformation of terminal
- Accepts wide wire range (0.3 to 2.0mm<sup>2</sup>)

### Reference Information

Product Specification: PS-35282

Packaging: Reel

Mates With: 35420 terminal

Use With: 35284 housing

Designed In: Millimeters

### Electrical

Voltage: 14V

Current: 3.0A max.

Contact Resistance: 10 milliohms max.

Dielectric Withstanding Voltage: 1000V

Insulation Resistance: 100 Megohms min.

### Mechanical

Contact Retention to Housing:

With TPA—10.0kgf min.

Wire Pull-Out Force: 6.0kgf min.

Mating Force: 10 circuits—14.0kgf max.

Unmating Force: 10 circuits—14.0kgf max.

Durability: 50 cycles

### Physical

Contact: Copper Alloy

Plating: Tin

Operating Temperature: -40 to +85°C

Order No.	Wire Range (mm <sup>2</sup> )	Lead-free
<a href="#">35421-6702</a>	AVS (CAVS) 0.30 to 0.50 (.012 to .020)	Yes
<a href="#">35421-6802</a>	AVS (CAVS) 0.50 to 1.25 (.020 to .050)	
<a href="#">35421-6902</a>	AVSS 2f	

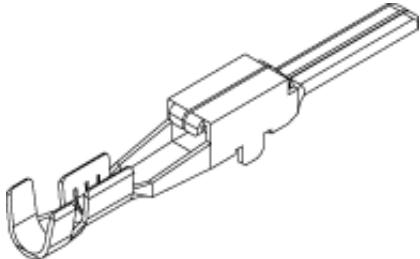
[www.molex.com/customer.html?seriesNumber=35421](http://www.molex.com/customer.html?seriesNumber=35421)



MX07 T-11

## 2.30mm (.090") Tab Terminal

57919  
Male



### Features and Benefits

- Locking tab secures terminal to housing

### Reference Information

Product Specification: CS-50660-001  
Packaging: Reel  
Mates With: 35421 Terminal  
Use With: 35897 and 49016 housings  
Designed In: Millimeters

### Electrical

Voltage: 14V  
Current: 10.0A max.  
Contact Resistance: 10 milliohms max.  
Dielectric Withstanding Voltage: 1000V AC  
Insulation Resistance: 100 Megohms min.

### Physical

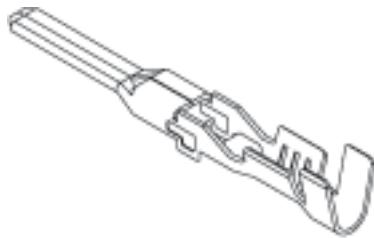
Contact: Brass  
Plating: Contact Area—Pre-Tin  
Strip Length: 4.20 to 5.00mm (.165 to .197")  
Operating Temperature: -40 to +85°C

Order No.	Wire Range (mm <sup>2</sup> )	Insulation Diameter	Lead-free
<a href="#">57919-6702</a>	0.3-0.5	2.60mm (.102") max.	Yes
<a href="#">57919-6802</a>	0.85-1.25	2.90mm (.115") max.	
<a href="#">57919-6902</a>	2.0		

[www.molex.com/customer.html?seriesNumber=57919](http://www.molex.com/customer.html?seriesNumber=57919)

## 2.30mm (.090") Tab Terminal

35420  
Male



### Features and Benefits

- Housing-locking feature avoids deformation of terminal
- Accepts wide wire range (0.3 to 2.0mm<sup>2</sup>)
- Flat tab design offers low insertion force and good mating contact

### Reference Information

Product Specification: PS-35282  
Packaging: Reel  
Mates With: 35421 terminal  
Use With: 35282 housing  
Designed In: Millimeters

### Electrical

Voltage: 14V  
Current: 3.0A max.  
Contact Resistance: 10 milliohms max.  
Dielectric Withstanding Voltage: 1000V  
Insulation Resistance: 100 Megohms min.

### Mechanical

Contact Retention to Housing:  
With TPA—10.0kgf min.  
Wire Pull-Out Force: 6.0kgf min.  
Mating Force: 10 circuits—14.0kgf max.  
Unmating Force: 10 circuits—14.0kgf max.  
Durability: 50 cycles

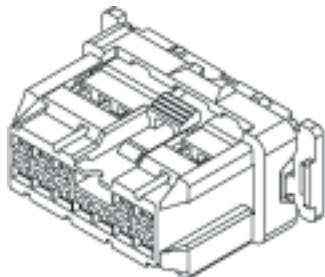
### Physical

Contact: Brass  
Plating: Tin  
Operating Temperature: -40 to +85°C

Order No.	Wire Range (mm <sup>2</sup> )	Lead-free
<a href="#">35420-9702</a>	AVS (CAVS) 0.30 to 0.50 (.012 to .020)	Yes
<a href="#">35420-9802</a>	AVS (CAVS) 0.50 to 1.25 (.020 to .050)	
<a href="#">35420-9902</a>	AVSS 2f	

## 2.30mm (.090") Tab Wire-to-Wire Receptacle

### 35284 With Secondary Terminal Retention



#### Features and Benefits

- Sizes 6, 8, 10, 12 and 16 circuits
- Preloaded TPA
- Inertia lock mechanism for secure mating retention: 6, 8 and 10 circuits

#### Reference Information

Product Specification: PS-35282  
Packaging: Bag  
Mates With: 35282 housing  
Use With: 35421 terminal  
Designed In: Millimeters

#### Electrical

Voltage: 14V  
Current: 3.0A max.  
Contact Resistance: 10 milliohms max.  
Dielectric Withstanding Voltage: 1000V  
Insulation Resistance: 100 Megohms min.

#### Mechanical

Contact Retention to Housing:  
With TPA—10.0kgf min.  
Mating Force: 10 circuits—14.1kgf max.  
Unmating Force: 10 circuits—14.1kgf max.  
Durability: 50 cycles

#### Physical

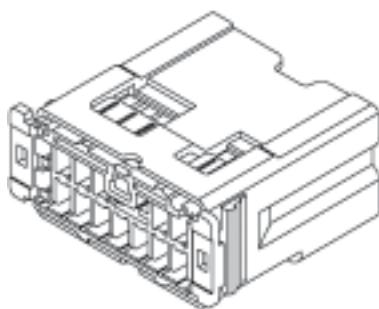
Contact: Polyester  
TPA: Polyester  
Operating Temperature: -40 to +85°C

Circuits	Order No.
6	<a href="#">35284-0610</a>
8	<a href="#">35284-0810</a>
10	<a href="#">35284-1010</a>
12	<a href="#">35284-1210</a>
16	<a href="#">35284-1610</a>

[www.molex.com/customer.html?seriesNumber=35284](http://www.molex.com/customer.html?seriesNumber=35284)

## 2.30mm (.090") Tab Wire-to-Wire Plug

### 35282 With Secondary Terminal Retention



#### Features and Benefits

- Sizes 6, 8, 10, 12 and 16 circuits
- Preloaded TPA
- Inertia lock mechanism for secure mating retention: 6, 8 and 10 circuits
- Clip mounting feature on plug housing

#### Reference Information

Product Specification: PS-35282  
Packaging: Bag  
Mates With: 35284 housing  
Use With: 35420 terminal  
Designed In: Millimeters

#### Electrical

Voltage: 14V  
Current: 3.0A max.  
Contact Resistance: 10 milliohms max.  
Dielectric Withstanding Voltage: 1000V  
Insulation Resistance: 100 Megohms min.

#### Mechanical

Contact Retention to Housing:  
With TPA—10.0kgf min.  
Mating Force: 10 circuits—14.1kgf max.  
Unmating Force: 10 circuits—14.1kgf max.  
Durability: 50 cycles

#### Physical

Contact: Polyester  
TPA: Polyester  
Operating Temperature: -40 to +85°C

Circuits	Order No.
6	<a href="#">35282-0610</a>
8	<a href="#">35282-0810</a>
10	<a href="#">35282-1010</a>
12	<a href="#">35282-1210</a>
16	<a href="#">35282-1610</a>

[www.molex.com/customer.html?seriesNumber=35282](http://www.molex.com/customer.html?seriesNumber=35282)



## 2.50mm (.098") Pitch Splash Proof Wire-to-Wire Crimp Terminal

**50148**



### Features and Benefits

- Unique spring-beam design provides high pressure and small deflection for high vibration applications
- Stabilizing bump at tip keeps terminal in place during mating

### Reference Information

Packaging: Reel or bag  
Use With: 52213  
Designed In: Millimeters

### Electrical

Voltage: 25V  
Current: AVSS/CAVS 0.50 sq. (20 AWG)—4.0A  
AVSS/CAVS 0.30 sq. (22 AWG)—3.0A

### Physical

Contact: Phosphor Bronze  
Plating: Tin  
Wire Range: AVSS/CAVS 0.30 sq., 0.50 sq. (20 to 22 AWG)  
Insulation Range: 1.40 to 1.90mm  
Strip Length: 2.00 to 2.50mm

Order No.	Packaging	Lead-free
<a href="#">50148-8000</a>	Reel	
<a href="#">50148-8100</a>	Bag	Yes

## 2.50mm (.098") Pitch Splash Proof Wire-to-Wire Crimp Terminal

**50147**



### Features and Benefits

- Seal is in housing to simplify crimping process
- Raised split-beam design provides polarization

### Reference Information

Packaging: Reel or bag  
Use With: 52266  
Designed In: Millimeters

### Electrical

Voltage: 25V  
Current: AVSS/CAVS 0.50 sq. (20 AWG)—4.0A  
AVSS/CAVS 0.30 sq. (22 AWG)—3.0A

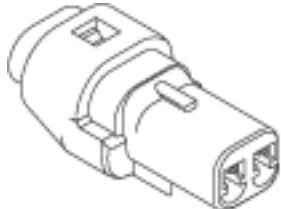
### Physical

Contact: Phosphor Bronze  
Plating: Tin  
Wire Range: AVSS/CAVS 0.30 sq., 0.50 sq. (20 to 22 AWG)  
Insulation Range: 1.40 to 1.90mm  
Strip Length: 2.00 to 2.50mm

# 2.50mm (.098") Pitch Splash Proof Wire-to-Wire Receptacle

**52213**

2-Circuit Version



Circuits	Order No.
2	<a href="#">52213-0211</a>

## Features and Benefits

- Size 2 circuits
- JIS D0203 S2 waterproof compliant
- Unique seal stopper design provides low insertion force
- For tight packaging applications
- User-friendly friction lock saves space and protects locking latch area
- Polarizing rib to ensure proper mating

## Reference Information

Packaging: Tray  
Mates With: 52266  
Use With: 50148  
Designed In: Millimeters

## Electrical

Voltage: 25V  
Current: 4.0A  
Contact Resistance: 10 milliohms max.  
Dielectric Withstanding Voltage: 500V AC/1 min.  
Insulation Resistance: 250 Megohms min.

## Physical

Housing: Black glass-filled PBTP  
Cap: Glass-filled PBTP  
Wire End Seal: Silicone  
Operating Temperature: -40 to +105°C

# 2.50mm (.098") Pitch Splash Proof Wire-to-Wire Receptacle

**52213**

3 and 4-Circuit Version



Circuits	Order No.	Housing/Cap Color
3	<a href="#">52213-0311</a>	Black
4	<a href="#">52213-0417</a>	Brown

## Features and Benefits

- Sizes 3 and 4 circuits
- JIS D0203 S2 waterproof compliant
- Unique seal stopper design provides low insertion force
- For tight packaging applications
- User-friendly friction lock saves space and protects locking latch area
- One-body wire and seal enables tighter spacing between terminals

## Reference Information

Packaging: Tray  
Mates With: 52266  
Use With: 50148  
Designed In: Millimeters

## Electrical

Voltage: 25V  
Current: 4.0A  
Contact Resistance: 10 milliohms max.  
Dielectric Withstanding Voltage: 500V AC/1 min.  
Insulation Resistance: 250 Megohms min.

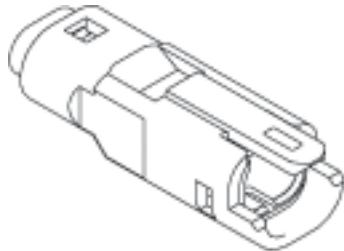
## Physical

Housing/Cap: Glass-filled PBTP  
Wire End Seal: Silicone  
Operating Temperature: -40 to +105°C

# 2.50mm (.098") Pitch Splash Proof Wire-to-Wire Plug

**52266**

2-Circuit Version



Circuits	Order No.
2	<a href="#">52266-0211</a>

## Features and Benefits

- Size 2 circuits
- JIS D0203 S2 waterproof compliant
- Unique seal stopper design provides low insertion force
- For tight packaging applications
- User-friendly friction lock saves space and protects locking latch area
- One-body wire and seal enables tighter spacing between terminals

## Reference Information

Packaging: Tray  
Mates With: 52213  
Use With: 50147  
Designed In: Millimeters

## Electrical

Voltage: 25V  
Current: 4.0A  
Contact Resistance: 10 milliohms max.  
Dielectric Withstanding Voltage: 500V AC/1 min.  
Insulation Resistance: 250 Megohms min.

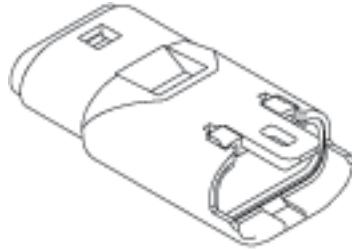
## Physical

Housing: Black glass-filled PBTP  
Cap: Glass-filled PBTP  
Wire End Seal: Silicone  
Seal Stopper: Glass-filled PBTP  
Seal: Silicone  
Operating Temperature: -40 to +105°C

# 2.50mm (.098") Pitch Splash Proof Wire-to-Wire Plug

**52266**

3 and 4-Circuit Version



## Features and Benefits

- Sizes 3 and 4 circuits
- JIS D0203 S2 waterproof compliant
- Unique seal stopper design provides low insertion force
- For tight packaging applications
- User-friendly friction lock saves space and protects locking latch area
- One-body wire and seal enables tighter spacing between terminals

## Reference Information

Packaging: Tray  
Mates With: 52213  
Use With: 50147  
Designed In: Millimeters

## Electrical

Voltage: 25V  
Current: 4.0A  
Contact Resistance: 10 milliohms max.  
Dielectric Withstanding Voltage: 500V AC/1 min.  
Insulation Resistance: 250 Megohms min.

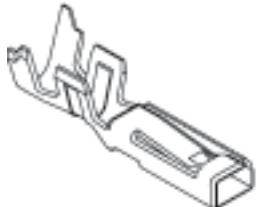
## Physical

Housing/Cap: Glass-filled PBTP  
Wire End Seal: Silicone  
Seal Stopper: Glass-filled PBTP  
Seal: Silicone  
Operating Temperature: -40 to +105°C

Circuits	Order No.	Housing/Cap Color
3	<a href="#">52266-0311</a>	Black
4	<a href="#">52266-0417</a>	Brown

# 2.50mm (.098") Pitch Splash Proof Wire-to-Wire Crimp Terminal

**50039**



## Features and Benefits

- Unique spring-beam design provides high pressure and small deflection for high vibration applications

## Reference Information

Packaging: Chain or loose  
Use With: 52117  
Designed In: Millimeters

## Electrical

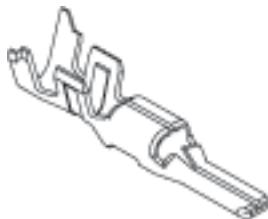
Voltage: 250V  
Current: 3.0A

## Physical

Contact: Phosphor Bronze  
Plating: Tin  
Wire Range: AVS 0.30 sq., CAVS 0.50 sq. (20 to 22 AWG)  
Insulation Range: 1.50 to 1.90mm  
Strip Length: 2.00 to 2.50mm

# 2.50mm (.098") Pitch Splash Proof Wire-to-Wire Crimp Terminal

**50038**



## Features and Benefits

- Seal is in housing to simplify crimping process
- Raised body design provides polarization

## Reference Information

Packaging: Chain or loose  
Use With: 52116  
Designed In: Millimeters

## Electrical

Voltage: 250V  
Current: 3.0A

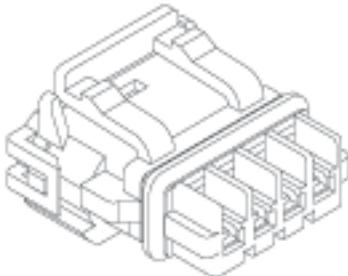
## Physical

Contact: Phosphor Bronze  
Plating: Tin  
Wire Range: AVS 0.30 sq., CAVS 0.50 sq. (20 to 22 AWG)  
Insulation Range: 1.50 to 1.90mm  
Strip Length: 2.00 to 2.50mm

Order No.	Packaging	Lead-free
<a href="#">50038-8000</a>	Chain	
<a href="#">50038-8100</a>	Loose	Yes

# 2.50mm (.098") Pitch Splash Proof Wire-to-Wire Receptacle Housing

**52117**



## Features and Benefits

- Sizes 2 to 4 circuits
- JIS D0203 S2 compliant
- User friendly friction lock provides secure connection

## Reference Information

Packaging: Tray  
Mates With: 52116 housing  
Use With: 50039 terminal  
Designed In: Millimeters

## Electrical

Voltage: 250V  
Current: 3.0A max.  
Contact Resistance: 10 milliohms max.  
Dielectric Withstanding Voltage: 500V AC/1 min.  
Insulation Resistance: 250 Megohms min.

## Physical

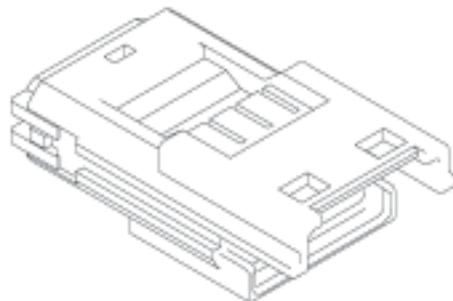
Housing: Glass-filled PBTP  
Cap: Glass-filled PBTP  
Seal: Silicon  
Operating Temperature: -40 to +105°C

Circuits	Order No.
2	52117-024X
3	52117-034X
4	52117-041X

Note: Replace X with  
0 = White color  
1 = Black color  
2 = Red color (available in 2 and 3 circuits only)

# 2.50mm (.098") Pitch Splash Proof Wire-to-Wire Plug Housing

**52116**



## Features and Benefits

- Sizes 2 to 4 circuits
- JIS D0203 S2 compliant
- User friendly friction lock provides secure connection

## Reference Information

Packaging: Tray  
Mates With: 52117 housing  
Use With: 50038 terminal  
Designed In: Millimeters

## Electrical

Voltage: 250V  
Current: 3.0A max.  
Contact Resistance: 10 milliohms max.  
Dielectric Withstanding Voltage: 500V AC/1 min.  
Insulation Resistance: 250 Megohms min.

## Physical

Housing: Glass-filled PBTP  
Cap: Glass-filled PBTP  
Seal: Silicon  
Operating Temperature: -40 to +105°C

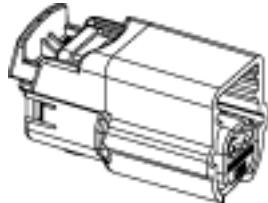
Circuits	Order No.
2	52116-024X
3	52116-034X
4	52116-041X

Note: Replace X with  
0 = White color  
1 = Black color  
2 = Red color (available in 2 and 3 circuits only)

# 2.54mm (.100") Pitch MX64™ Sealed Connectors

**31402/31403/31404**

**Single Row  
Female**



## Features and Benefits

- Meets all USCAR footprints and testing requirements
- Ability to accommodate Ford, General Motors, Daimler-Chrysler and general market-approved female terminals
- Matte seal design
- Available with or without CPA
- Polarization options available
- 31402 for Ford applications
- 31403 for Daimler Chrysler and general market applications
- 31404 for General Motors applications

## Reference Information

- Packaging: Bag  
Mates With: Direct connect only  
Designed In: Millimeters

## Electrical

- Voltage: 250V  
Current: 7.0 to 10.0A  
Contact Resistance: 20 milliohms max.  
Dielectric Withstanding Voltage: 500V DC  
Insulation Resistance: 20 Megohms min.

## Mechanical

- Contact Insertion Force: Less than 15N  
Contact Retention to Housing: 110N min.  
Wire Pull-Out Force: 90N min.  
Mating Force: Less than 75N  
Unmating Force: Less than 75N  
Normal Force: Terminal dependent

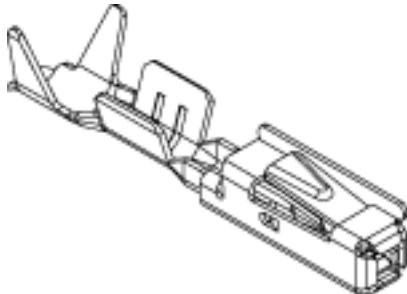
## Physical

- Housing: PBT + 15% glass filled  
Contact: Tin or Gold  
Wire Gauge: 18 to 22 AWG  
Operating Temperature: -40 to +125°C

Order No.	Description	Color	CPA Option	
<a href="#">31402-2100</a>	1x2 Polarization A	Black	No	
<a href="#">31402-2200</a>	1x2 Polarization B	Gray		
<a href="#">31402-2400</a>	1x2 Polarization D	Green		
<a href="#">31402-2700</a>		Black		
<a href="#">31402-2110</a>	1x2 Polarization A	Black	Yes	
<a href="#">31402-2210</a>	1x2 Polarization B	Gray		
<a href="#">31402-2410</a>	1x2 Polarization D	Green		
<a href="#">31402-2710</a>		Black		
<a href="#">31402-3100</a>	1x3 Polarization A	Black	No	
<a href="#">31402-3110</a>			Yes	
<a href="#">31402-6100</a>	1x6 Polarization A		No	
<a href="#">31402-6110</a>			Yes	
<a href="#">31403-2100</a>	1x2 Polarization A		No	
<a href="#">31403-2110</a>			Yes	
<a href="#">31403-3100</a>	1x3 Polarization A	Green	No	
<a href="#">31403-3110</a>			Yes	
<a href="#">31403-3400</a>	1x3 Polarization D		No	
<a href="#">31403-3410</a>	1x3 Polarization D	Black	Yes	
<a href="#">31403-3700</a>	1x3 Polarization D		No	
<a href="#">31403-3710</a>	1x3 Polarization D		Yes	
<a href="#">31403-6100</a>	1x3 Polarization A		No	
<a href="#">31403-6110</a>			Yes	
<a href="#">31404-3100</a>			No	
<a href="#">31404-3400</a>	1x3 Polarization D	Green	No	
<a href="#">31404-3700</a>	1x3 Polarization D	Black	No	
<a href="#">31404-3110</a>	1x3 Polarization A		Yes	
<a href="#">31404-3410</a>	1x3 Polarization D	Green	Yes	
<a href="#">31404-3710</a>	1x3 Polarization D	Black	Yes	
<a href="#">31404-6100</a>	1x6 Polarization A		No	
<a href="#">31404-6110</a>			Yes	

# 2.54mm (.100") Pitch MOX Crimp Terminal

**98658**  
Female



## Features and Benefits

- Two-piece laser-welded terminal
- Two points of contact
- For wire termination
- Two-piece terminal with sleeve design
- Steel sleeve protects mating area
- Polarization rib for terminal orientation during assembly
- Long contact area provides secure electrical connection

## Reference Information

Product Specification: PS-98658-005  
Packaging: Reel  
Mates With: 0.635mm (.025") square pin terminals  
Use With: MOX housings and various other connectors  
Designed In: Millimeters

## Electrical

Voltage: 14V DC  
Current: 6.5A  
Contact Resistance: 8 milliohms max.  
Dielectric Withstanding Voltage: 1000V AC  
Insulation Resistance: 100 Megohms min.

## Mechanical

Contact Insertion Force: 3.0N max.  
Contact Retention to Housing: 40.0N min.  
Wire Pull-Out Force: 50N min. on 0.22mm<sup>2</sup> wire  
Insertion Force to Housing: 5.0N max. (for unsealed);  
10.0N max. (for sealed connector)  
Durability: 20 cycles

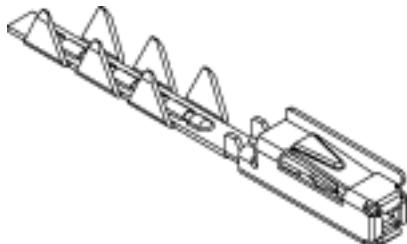
## Physical

Contact: High Conductive Copper Alloy, 0.635mm (.025"), square  
Plating: Pre-plated  
Contact Area: Tin—1 to 3µm min.; Gold—0.4µm min.  
Underplating: Nickel (for Gold-plated version only)  
Operating Temperature: -40 to +125°C

Order No.	Plating	Wire Size (AWG)	Wire size (mm <sup>2</sup> )	Wire Insulation Diameter	Wire Strip Length	Lead-free
<a href="#">98658-1211</a>	Tin	20-24	0.22-0.60	1.20-1.80mm (.047-.071")	3.00mm	Yes
<a href="#">98658-1212</a>		18-22	0.75	1.70mm (.067") max	3.50mm	
<a href="#">98658-1213</a>		20-24	0.22-0.50	1.20-1.50mm (.047-.060")	3.00mm	
<a href="#">98658-1221</a>	Select Gold	20-24	0.22-0.60	1.20-1.80mm (.047-.071")	3.00mm	Yes
<a href="#">98658-1222</a>		18-22	0.75	1.70mm (.067") max	3.50mm	
<a href="#">98658-1223</a>		20-24	0.22-0.50	1.20-1.50mm (.047-.060")	3.00mm	
<a href="#">98658-1231</a>	2 points Select Gold	20-24	0.22-0.60	1.20-1.80mm (.047-.071")	3.00mm	Yes
<a href="#">98658-1232</a>		18-22	0.75	1.70mm (.067") max	3.50mm	
<a href="#">98658-1233</a>		20-24	0.22-0.50	1.20-1.50mm (.047-.060")	3.00mm	

# 2.54mm (.100") Pitch MOX FFC/FPC Crimp Terminal

**98194**  
Female



## Features and Benefits

- Two-piece laser welded terminal
- Two contact points
- For FFC/FPC crimp termination
- High-performance alloy for increased conductivity and temperature
- Design allows for primary and secondary locking
- Allows flex to interface with existing male connectors and modules
- Allows mass termination of contacts
- Custom housings available

## Reference Information

Packaging: Reel  
Mates With: 0.635mm (.025") square pin terminals  
Use With: MOX housings and various other connectors  
Designed In: Millimeters

## Electrical

Voltage: 14V DC  
Current: 3.0A  
Contact Resistance: 10 milliohms max.  
Dielectric Withstanding Voltage: 1000V AC  
Insulation Resistance: 100 Megohms min.

## Mechanical

Contact Insertion Force: 3.0N max.  
Contact Retention to Housing: 70.0N min.  
(for 2 crimped terminals)  
Wire Pull-Out Force: 70.0N min. (for 2 crimped terminals)  
Insertion Force to Housing: 5.0N max. per circuit  
Durability: 20 cycles

## Physical

Contact: High conductive Copper Alloy, 0.635mm (.025"), square  
Sleeve: Stainless Steel  
Plating: Tin or Select Gold  
Conductor Width: 1.57mm (.062")  
Conductor Thickness: 0.063 to 0.100mm (.002 to .004")  
Cable Thickness: 0.33mm (.013") max. FFC/FPC  
Operating Temperature: -40 to +105°C

Order No.	Plating	GAP Area	Crimping Area	Lead-free
<a href="#">98194-1211</a>	Tin	Tin: 1.0-3.0µm	Tin: 1.0-3.0µm	Yes
<a href="#">98194-1221</a>		Gold: 0.3µm Nickel: 1.0µm	Tin: 1.0-5µm Nickel: 1.0µm	

# 2.54mm (.100") Pitch MOX Receptacle Housing

**98193**

**Single Row, Vertical  
With TPA**

## Features and Benefits

- Reusable one-piece secondary locking
- Inertial locking feature
- One-piece design with integrated secondary lock for easy use

## Reference Information

Packaging: Bag  
Use With: 98658  
Designed In: Millimeters

## Electrical

Voltage: 14V DC  
Current: 6.0A  
Contact Resistance: 8 milliohms max.  
Dielectric Withstanding Voltage: 1000V AC  
Insulation Resistance: 100 Megohms min.

## Mechanical

Contact Insertion Force: 5.0N (1.12 lb) max.  
Contact Retention to Housing: 40.0N (9 lb) min.  
Wire Pull-Out Force: 100.0N (22.5 lb) min.  
Mating Force: 60.0N (13.5 lb) max.  
Unmating Force: 60.0N (13.5 lb) max.  
Durability: 20 cycles (with Tin-plated terminal)

## Physical

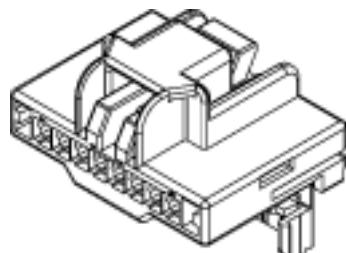
Housing: Black PA Polyamide (nylon) 6, UL 94V-2  
Operating Temperature: -40 to +85°C

Circuits	Order No.	Lead-free
6	<a href="#">98193-0001</a>	Yes

# 2.54mm (.100") Pitch MOX Receptacle Housing

**98545**

**Single Row, Vertical  
With TPA**



## Features and Benefits

- Reusable two-piece secondary locking feature
- Three color and mechanical codings
- One-piece design with integrated secondary lock for easy use

## Reference Information

Packaging: Bag  
Use With: 98658  
Designed In: Millimeters

## Electrical

Voltage: 14V DC  
Current: 6.0A  
Contact Resistance: 8 milliohms max.  
Dielectric Withstanding Voltage: 1000V AC  
Insulation Resistance: 100 Megohms min.

## Mechanical

Contact Insertion Force: 5.0N (1.12 lb) max.  
Contact Retention to Housing: 40.0N (9 lb) min.  
Wire Pull-Out Force: 100N (22.5 lb) min.  
Mating Force: 60.0N (13.5 lb) max.  
Unmating Force: 60.0N (13.5 lb) max.  
Durability: 20 cycles (with Tin-plated terminal)

## Physical

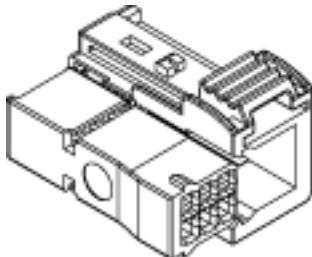
Housing: PBT Polyester, HB, UL 94-HB  
Operating Temperature: -40 to +100°C

Circuits	Order No.	Color	Lead-free
8	<a href="#">98545-0001</a>	Black	Yes
	<a href="#">98545-0002</a>	Gray	
	<a href="#">98545-0003</a>	Blue	

# 2.54mm (.100") Pitch MOX Receptacle Housing

**98298**

**2 by 3 Circuits  
Dual Row, Vertical  
Breakable**



## Features and Benefits

- Reusable two-piece secondary locking feature
- Inertial locking feature
- Six color and mechanical codings
- One-piece design with integrated secondary lock for easy use

## Reference Information

- Packaging: Bag  
Mates With: Industry-standard interface  
Use With: 98658  
Designed In: Millimeters

## Electrical

- Voltage: 14V DC  
Current: 6.0A  
Contact Resistance: 8 milliohms max.  
Dielectric Withstanding Voltage: 1000V AC  
Insulation Resistance: 100 Megohms min.

## Mechanical

- Contact Insertion Force: 5.0N (1.12 lb) max.  
Contact Retention to Housing: 40.0N (9 lb) min.  
Wire Pull-Out Force: 100N (22.5 lb) min.  
Mating Force: 65.0N (14.6 lb) max.  
Unmating Force: 60.0N (13.5 lb) max.  
Durability: 20 cycles (with Tin-plated terminals)

## Physical

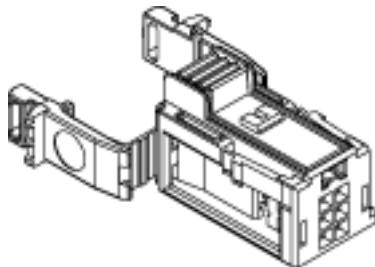
- Housing: Glass-filled PBT Polyester, HB, UL 94-HB  
Operating Temperature: -40 to +100°C

Circuits	Order No.	Color	Lead-free
6	<a href="#">98298-0001</a>	Black	Yes
	<a href="#">98298-0002</a>	White	
	<a href="#">98298-0003</a>	Green	
	<a href="#">98298-0004</a>	Brown	
	<a href="#">98298-0005</a>	Gray	
	<a href="#">98298-0006</a>	Blue	

# 2.54mm (.100") Pitch MOX Receptacle Housing

**98192**

**2 by 3 Circuits  
Dual Row, Vertical  
With TPA**



## Features and Benefits

- Reusable secondary locking
- Inertial locking feature
- One-piece design with integrated secondary lock for easy use

## Reference Information

- Packaging: Bag  
Mates With: Industry-standard interface  
Use With: 98658  
Designed In: Millimeters

## Electrical

- Voltage: 14V DC  
Current: 6.0A  
Contact Resistance: 8 milliohms max.  
Dielectric Withstanding Voltage: 1000V AC  
Insulation Resistance: 100 Megohms min.

## Mechanical

- Contact Insertion Force: 5.0N (1.12 lb) max.  
Contact Retention to Housing: 40.0N (9 lb) min.  
Wire Pull-Out Force: 100N (22.5 lb) min.  
Mating Force: 60.0N (13.5 lb) max.  
Unmating Force: 60.0N (13.5 lb) max.  
Durability: 20 cycles (with Tin-plated terminal)

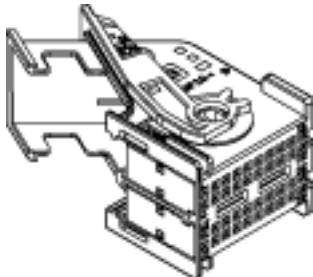
## Physical

- Housing: Black PA Polyamide (nylon) 6, UL 94V-2  
Operating Temperature: -40 to +85°C

Circuits	Order No.	Lead-free
6	<a href="#">98192-0001</a>	Yes

# 2.54mm (.100") Pitch MOX Receptacle Kit

**98686**  
**4 Rows**  
**Right Angle**



## Features and Benefits

- Lever provides low mating force
- Secondary locking activated by inserting terminal housing into the carrier
- Two color codings and keys available

## Reference Information

Packaging: Bag  
Mates With: 98184  
Use With: 98658 or 98194  
Designed In: Millimeters

## Electrical

Current: 5.0A  
Contact Resistance: 7 milliohms max.  
Insulation Resistance: 10 Megohms min.

## Mechanical

Contact Insertion Force: 10.0N (2.25 lb) max.  
Contact Retention to Housing: 30.0N (6.74 lb) min.  
Wire Pull-Out Force: 70.0N (15.74 lb)  
Mating Force: 70.0N (15.74 lb)  
Unmating Force: 70.0N (15.74 lb)

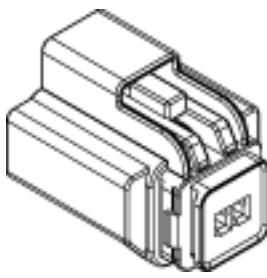
## Physical

Housing: Glass-filled PBT Polyester, UL 94-HB  
Operating Temperature: -25 to +105°C

Circuits	Order No.	Color	Key	Lead-free
40	<a href="#">98686-0001</a>	Black	Key 1	Yes
	<a href="#">98686-0002</a>	Blue	Key 2	

# 2.54mm (.100") Pitch MOX Receptacle Crash Sensor

**98696**  
**Vertical**



## Features and Benefits

- Two-piece design
- Inertial locking feature
- Sealed version available

## Reference Information

Packaging: Bag  
Mates With: Industry-standard interface  
Use With: 98658  
Designed In: Millimeters

## Electrical

Voltage: 14V  
Current: 6.0A  
Contact Resistance: 8 milliohms max.  
Dielectric Withstanding Voltage: 1000V AC  
Insulation Resistance: 100 Megohms min.

## Mechanical

Contact Insertion Force: 5.0N (1.12 lb) max.  
Contact Retention to Housing: 40.0N (9 lb) min.  
Wire Pull-Out Force: 100.0N (22.5 lb) min.  
Mating Force: 60.0N (13.5 lb) max.  
Unmating Force: 60.0N (13.5 lb) max.  
Durability: 20 cycles (with Tin-plated terminal)

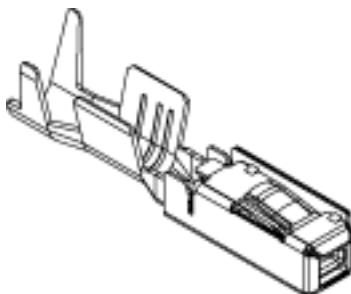
## Physical

Housing: Black glass-filled PBT Polyester, HB, UL 94-HB  
Operating Temperature: -40 to +100°C

Circuits	Order No.	Lead-free
2	<a href="#">98696-1002</a>	Yes

# 3.33mm (.131") Pitch MOX Power Crimp Terminal

**98195**  
Female



## Features and Benefits

- Two-piece laser welded terminal
- Three contact points
- Protection through sleeve
- Wire crimp
- High-performance alloy for increased conductivity and temperature
- Locking latch
- Keying with polarization rib

## Reference Information

Product Specification: PS-98195-001  
Packaging: Reel  
Mates With: 1.50mm (.059") blade terminals  
Use With: 98944 and 98950  
Designed In: Millimeters

## Electrical

Voltage: 14V DC  
Current: 18.0A  
Contact Resistance: 4 milliohms max.  
Dielectric Withstanding Voltage: 1000V AC  
Insulation Resistance: 100 Megohms min.

## Mechanical

Contact Insertion Force: 5.0N max.  
Contact Retention to Housing: 60.0N min.  
Wire Pull-Out Force: 120.0N min. on 1.0mm<sup>2</sup> wire  
Insertion force to housing: 5.0N max. (for unsealed),  
15.0N max. (for sealed connector)  
Durability: 20 cycles

## Physical

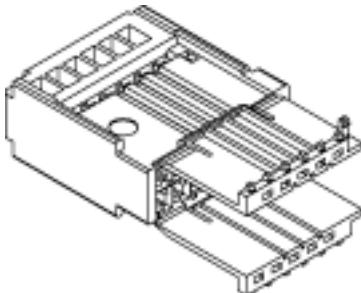
Contact: 1.5mm (.059") high conductive Copper Alloy  
Sleeve: Stainless Steel  
Plating: Tin  
Contact Area: 1.0 to 3.0µm Tin  
Operating Temperature: -40 to +125°C

Order No.	Wire Size	Wire Insulation Diameter	Wire Strip Length
98195-1211	0.35-0.50mm <sup>2</sup> (20-22 AWG)	1.20-1.40mm	5.0 0/-0.4mm
98195-1212	0.50-1.00mm <sup>2</sup> (18-20 AWG)	1.40-1.80mm	
98195-1213	>1.00-2.50mm <sup>2</sup> (14-16 AWG)	2.30-2.80mm	

[www.molex.com/product/mox.html](http://www.molex.com/product/mox.html)

# 2.54mm (.100") Pitch MOST Receptacle Housing

**98684**



## Features and Benefits

- TPA integrated by filme hinge function
- Fits into 98681-1001 and 98681-1002
- Keying prevents wrong insertion into housing frame
- Terminal cavities designed for Molex MOX 0.64mm (.025") terminals
- Conforms to USCAR-2 Rev. 3

## Reference Information

Product Specification: PS-98681-001  
Packaging: Box  
Mates With: 91500, 91547, 98681  
Use With: 98658

## Electrical

Voltage: 9 to 16V DC (operating normal)  
Current: 7.5A max.  
Contact Resistance: 100 milliohms max.

## Mechanical

Contact Insertion Force: 30.00N (6.74 lb)  
Contact Retention to Housing: 60.00N (13.49 lb)  
Mating Force: 75.00N (16.86 lb)  
Unmating Force: 75.00N (16.86 lb)  
Durability: 11 mating cycles

## Physical

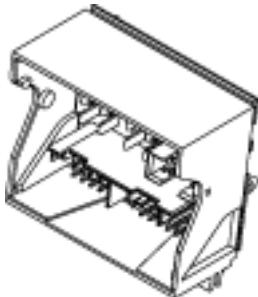
Housing: PBT Polyester, UL 94-HB  
Operating Temperature: -40 to +85°C

Circuits	Order No.	Color Coding	Key	Lead-free
12	98684-0001	Black	Key A	Yes
	98684-0002	Natural	Key B	

# 2.54mm (.100") Pitch MOST Junction Box

**91616**

Vertical, without 10.0A Fuse



Circuits	Order No.	Lead-free
40	<a href="#">91616-0001</a>	Yes

## Features and Benefits

- Complies with MOST specifications and is therefore a drop-in replacement part
- Fuse options available
- Mini-PCB assembly available
- Lead-free

## Reference Information

Product Specification: PS-91616-001

Packaging: Tray

Designed In: Millimeters

## Mechanical

Insertion Force to PCB: 70.0N (15.74 lb)

Durability: 30 cycles

## Physical

Housing: Glass-filled PA Polyamide (nylon), UL 94V-0

Contact: Copper Alloy

Plating: Contact Area—Tin

PCB Thickness: 1.6mm (0.62")

Operating Temperature: -40 to +85°C

## Electrical

Voltage: 16V

Current: 6.0A

Contact Resistance: 10 milliohms max.

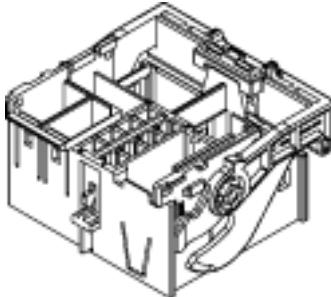
Dielectric Withstanding Voltage: 500V AC

Insulation Resistance: 500 Megohms min.

# 5.08mm (.200") Pitch MOST Frame Receptacle Housing

**98681**

With Lever,  
40 Electrical and 4 Optical Circuits  
(Optional)



Order No.		Lead-free
With Cable Cover	Without Cable Cover	
98681-1001	<a href="#">98681-1002</a>	Yes

## Features and Benefits

- MOST corporation interface
- Plastic optical fiber option integrated
- Version with feature to receive wire cap/strain relief 98660-0001
- Conforms to USCAR-2 Rev. 3 and Ford SDS Rev. 10

## Reference Information

Product Specification: PS-98681-001

Packaging: Box

Mates With: 91616, 91574

Use With: 98660, 98684, 98685

Designed In: Millimeters

## Electrical

Voltage: 9 to 16V DC (operating normal)

Current: 24.0A max.

Contact Resistance: 5 milliohms max.

## Mechanical

Contact Insertion Force: <30.00N (6.74 lb)

Contact Retention to Housing: >60.00N (13.49 lb)

Mating Force: 75.00N (16.86 lb)

Unmating Force: 75.00N (16.86 lb)

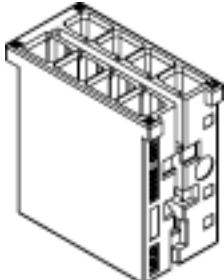
Durability: 11 mating cycles

## Physical

Housing: Black glass-filled SPS/PA 6/6, UL 94-HB

Operating Temperature: -40 to +85°C

# 5.08mm (.200") Pitch MOST Receptacle Power Connector **98685** With TPA Lock



## Features and Benefits

- Fits to MOST frame receptacle housing 98681-1001 and 98681-1002
- Delivered with Terminal Position Assurances (TPA) in pre-lock position
- Conforms to USCAR-2 Rev. 3 and Ford SDS Rev. 10

## Reference Information

Product Specification: PS-98681-001  
Packaging: Box  
Mates With: 91500, 91547 and 98681  
Use With: 2.80mm (.110") MPQ terminals

## Electrical

Voltage: 9 to 16V DC (operating normal)

Current: 24.0A max.

Contact Resistance: 5 milliohms max.

## Mechanical

Contact Insertion Force: 30.00N (6.74 lb) min.

Contact Retention to Housing: 60.00N (13.49 lb) max.

Mating Force: 75.00N (16.86 lb)

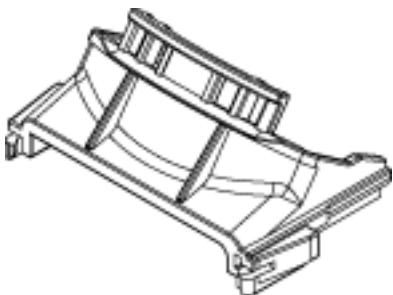
Unmating Force: 75.00N (16.86 lb)

## Physical

Housing: Black glass-filled SPS Crystalline Polymer, UL 94-HB

Operating Temperature: -40 to +85°C

# 5.08mm (.200") Pitch MOST Strain Relief Cable Cover **98660**



## Features and Benefits

- Provides 45° wire
- Positive clip
- Conforms to USCAR-2 Rev. 3 and Ford SDS Rev. 10

## Reference Information

Product Specification: PS-98681-001  
Packaging: Bag  
Use With: 98681-1001

## Physical

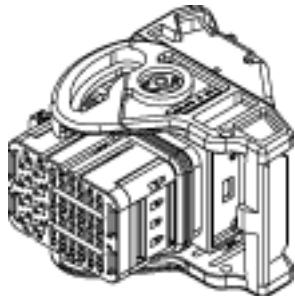
Housing: Black PBT Polyester

Operating Temperature: -40 to +85°C

# 2.54mm (.100")/ 3.50mm (.138") Pitch Wire-to-Board CMC Hybrid Crimp Housing

**98944**

Right Angle, 32 Circuits



## Features and Benefits

- Secondary locking
- Gel grommet seal to facilitate harness assembly (no cavity plug necessary for unplugged cavities)
- Two wire sizes: hybrid 0.635 and 1.50mm (.025 and .060") connector

## Reference Information

- Packaging: Tray  
Mates With: 98228 (112-way CMC Header)  
and various other CMC headers  
Use With: 98658, 98915-10x9 terminals  
and 98649-1001 (wire cap)  
Designed In: Millimeters

## Electrical

Voltage: 14V

Current:

- 0.635mm (.025") terminal—6.0A max.
- 1.50mm (.060") terminal—11.0A max.

Contact Resistance:

- 0.635mm (.025") terminal—8 milliohms max.
- 1.50mm (.060") terminal—4 milliohms max.

Dielectric Withstanding Voltage: 1000V AC min.

Insulation Resistance: 100 Megohms min.

## Mechanical

Contact Insertion Force:

- 0.635mm (.025") terminal—10.00N (2.25 lb)
- 1.50mm (.060") terminal—15.00N (3.37 lb)

Contact Retention to Housing:

- 0.635mm (.025") terminal—60.00N (13.49 lb)
- 1.50mm (.060") terminal—100.00N (22.48 lb)

Wire Pull-Out Force: 100.00N (22.48 lb)

Mating Force: 80.00N (17.98 lb) max.

Unmating Force: 80.00N (17.98 lb) max.

Durability: 20 mating cycles

## Physical

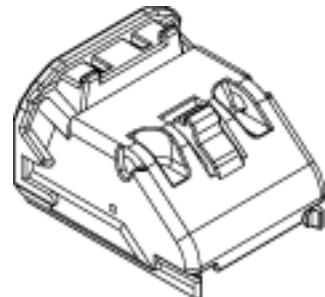
Housing: Glass-filled PBT Polyester

Operating Temperature: -40 to +100°C

Circuits	Order No.		Color	Lead-free
	Assembled Right Wire Output	Assembled Left Wire Output		
32	<a href="#">98944-2001</a>	<a href="#">98944-3001</a>	Black	Yes
	<a href="#">98944-2002</a>	<a href="#">98944-3002</a>	Gray	
	<a href="#">98944-2003</a>	<a href="#">98944-3003</a>	Brown	
	<a href="#">98944-2004</a>	<a href="#">98944-3004</a>	Green	
	<a href="#">98944-2005</a>	<a href="#">98944-3005</a>	Blue	

# 2.54mm (.100")/ 3.50mm (.138") Pitch CMC Wire Cap

**98649**



## Features and Benefits

- Fixture for strain relief
- Enable right angle wire output in two directions

## Reference Information

- Packaging: Box  
Use With: 98944-200X or 98944-300X  
Designed In: Millimeters

## Physical

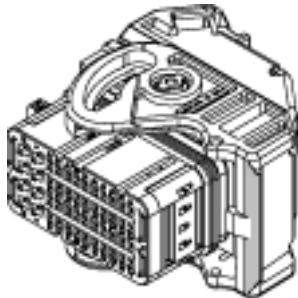
Material: Black PA6—Polyamide

Circuits	Order No.	Lead-free
32	<a href="#">98649-1001</a>	Yes

# 2.54mm (.100")/ 3.50mm (.138") Pitch Wire-to-Board CMC Hybrid Crimp Housing

**98950**

Right Angle, 48 Circuits



## Features and Benefits

- Secondary locking
- Gel grommet seal to facilitate harness assembly (no cavity plug necessary for unplugged cavities)
- Two wire sizes: hybrid 0.635 (.025 and .060") and 1.50mm connector

## Reference Information

- Packaging: Tray  
 Mates With: 98228 (112-way CMC Header)  
 and various other CMC headers  
 Use With: 98658, 98915-10x9 terminals  
 and 98649-1001 (wire cap)  
 Designed In: Millimeters

## Electrical

- Voltage: 14V  
 Current: 0.635mm (.025") terminal—6A max.  
 1.50mm (.060") terminal—11A max.  
 Contact Resistance:  
 0.635mm (.025") terminal—8 milliohms max.  
 1.50mm (.060") terminal—4 milliohms max.  
 Dielectric Withstanding Voltage: 1000V AC min.  
 Insulation Resistance: 100 Megohms min.

## Mechanical

- Contact Insertion Force:  
 0.635mm (.025") terminal—10.00N (2.25 lb)  
 1.50mm (.060") terminal—15.00N (3.37 lb)  
 Contact Retention to Housing:  
 0.635mm (.025") terminal: 60.00N (13.49 lb)  
 1.50mm (.060") terminal: 100.00N (22.48 lb)  
 Wire Pull-Out Force: 100.00N (22.48 lb)  
 Mating Force: 80.00N (17.98 lb) max.  
 Unmating Force: 80.00N (17.98 lb) max.  
 Durability: 20 mating cycles

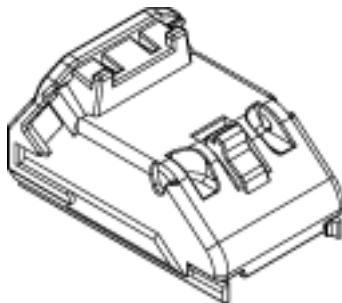
## Physical

- Housing: Glass-filled PBT Polyester  
 Operating Temperature: -40 to +100°C

Circuits	Order No.		Color	Lead-free
	Assembled Right Wire Output	Assembled Left Wire Output		
48	98950-2001	98950-3001	Black	Yes
	98950-2002	98950-3002	Gray	
	98950-2003	98950-3003	Brown	
	98950-2004	98950-3004	Green	
	98950-2005	98950-3005	Blue	

# 2.54mm (.100")/ 3.50mm (.138") Pitch CMC Wire Cap

**98655**



## Features and Benefits

- Fixture for strain relief
- Enable right angle wire output in two directions

## Reference Information

- Packaging: Box  
 Use With: 98950-200X or 98950-300X  
 Designed In: Millimeters

## Physical

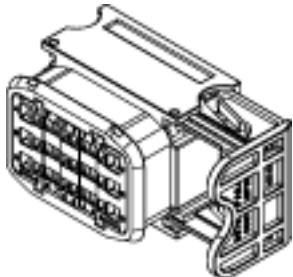
- Material: Black PA6—Polyamide

Circuits	Order No.	Lead-free
48	98655-1001	Yes

# 3.33mm (.131")/ 4.20mm (.165") Pitch NSCC Wire-to-Wire Hybrid Receptacle Housing

**98122**

**Triple Rows  
Sealed, Vertical**



## Features and Benefits

- Secondary locking
- Slide to reduce mating force
- Slide orientation right or left
- Grommet seal and perimeter seal
- Color keying
- Two wire sizes: hybrid 1.5 and 2.8mm (.060 and .110") connector

## Reference Information

Packaging: Box  
Mates With: 98761  
Use With: NSCC 1.5 terminal  
Designed In: Millimeters

## Electrical

Voltage: 13V  
Current: 1.5mm (.060")—13.0A  
2.8mm (.110")—22.0A  
(see Sigma terminal specification for 1.5 and 2.8mm terminals)  
Contact Resistance: 1.5mm (.060")—5 milliohms max.  
2.8mm (.110")—4 milliohms max.  
Dielectric Withstanding Voltage: 1000 VAC or 1400 VDC  
Insulation Resistance: 100 Megohms min.

## Mechanical

Contact Insertion Force:  
1.5mm (.060")—25.0N (5.62 lb) max.  
2.8mm (.110")—30.0N (6.74 lb) max.  
Contact Retention to Housing: 120.0N (26.98 lb) min.  
Wire Pull-Out Force: 120.0N (26.98 lb)  
Mating Force: 85.0N (19.11 lb) max. (fully loaded)  
Unmating Force: 85.0N (19.11 lb) max. (fully loaded)  
Durability: 10 mating cycles

## Physical

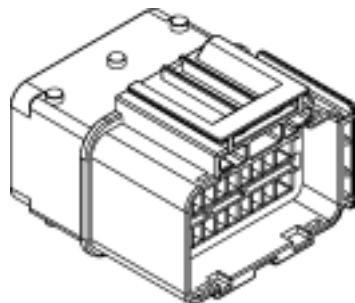
Housing: Glass-filled PBT Polyester, UL 94V-HB  
Operating Temperature: -40 to +125°C  
Sealing Class: 500 mbars (7.25 psi)

Circuits	Order No.	Color	Slide Orientation	Lead-free	
30	98122-1001	Black	Right	Yes	
	98122-1002	Brown			
	98122-1003	Gray			
	98122-1005	Black			
	98122-1006	Brown	Left		
	98122-1007	Gray			

# 3.33mm (.131")/ 4.20mm (.165") Pitch NSCC Wire-to-Wire Hybrid Plug Housing

**98761**

**Triple Rows  
Sealed, Vertical**



## Features and Benefits

- Secondary locking feature
- Slide to reduce mating force
- Slide orientation right or left possible
- Grommet seal and perimeter seal
- Color keying
- Two wire sizes: hybrid 1.50 and 2.80mm (.060 and .110") connector

## Reference Information

Packaging: Box  
Mates With: 98122  
Use With: Sigma 1.5 and 2.8mm (.060 and .110") male terminals  
Designed In: Millimeters

## Electrical

Voltage: 13V  
Current: 1.5mm (.060")—13.0A  
2.8mm (.110")—22.0A  
(see FCI Sigma terminal specification for 1.5 and 2.8mm terminals)  
Contact Resistance: 1.5mm (.060")—5 milliohms max.  
2.8mm (.110")—4 milliohms max.  
Dielectric Withstanding Voltage: 1000V AC or 1400V DC  
Insulation Resistance: 100 Megohms min.

## Mechanical

Contact Insertion Force:  
1.5mm (.060")—15.0N (3.37 lb) max.  
2.8mm (.110")—20.0 N (4.50 lb) max.  
Contact Retention to Housing: 120.0 N (26.98 lb) min.  
Wire Pull-Out Force: 120.0N (26.98 lb)  
Mating Force: 85.0N (19.11 lb) max. (fully loaded)  
Unmating Force: 85.0N (19.11 lb) max. (fully loaded)  
Durability: 10 mating cycles

## Physical

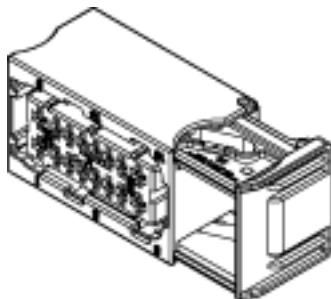
Housing: Glass-filled PBT Polyester, UL 94-HB  
Sealing Class: 500 mbars (7.25 psi)  
Operating Temperature: -40 to +125°C

Circuits	Order No.	Color	Lead-free
30	98761-1001	Black	Yes
	98761-1002	Brown	
	98761-1003	Gray	

# 3.33mm (.131")/ 6.00mm (.236") Pitch NSCC Hybrid Inline Receptacle Housing

**98273**

Dual Row, Vertical with Slide



## Features and Benefits

- Secondary locking for 1.54 and 2.8mm (.060 and .110") terminals
- Slide to reduce mating force
- Right slide orientation
- Hole feature to seal the slide in locked position
- Six mechanical codings correlating with 6 housing colors

## Reference Information

Packaging: Box  
Mates With: 98276  
Use With: 98897 and 98898  
Designed In: Millimeters

## Electrical

Voltage: 13.5V

Current:

1. 50mm—7.0A max. at 85°C crimped on 2.0mm<sup>2</sup> wire
2. 80mm—15.0A max. at 85°C crimped on 4.0mm<sup>2</sup> wire

Dielectric Withstanding Voltage: 1000V min.

Insulation Resistance: 200 Megohms min.

## Mechanical

Contact Insertion Force: 1.5mm (.060")—5.0N max.  
2.8mm (.110")—8.0N max.  
Contact Retention to Housing: 1.5mm (.060")—100.0N min.  
2.8mm (.110")—100.0N min.  
Mating Force: 60.0N max.  
Unmating Force: 20.0N min.  
Normal Force: 150.0N min.  
Durability: 20 cycles

## Physical

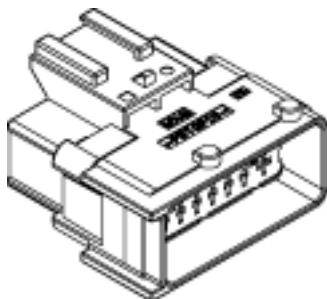
Housing: Glass-filled PBT Polyester, UL 94-HB  
Operating Temperature: -40 to +125°C

Circuits	Order No.	Color	Lead-free
16	<a href="#">98273-1001</a>	Black	Yes
	<a href="#">98273-1002</a>	Green	
	<a href="#">98273-1003</a>	Blue	
	<a href="#">98273-1004</a>	White	
	<a href="#">98273-1005</a>	Brown	
	<a href="#">98273-1006</a>	Gray	

# 3.33mm (.131")/ 6.00mm (.236") Pitch NSCC Hybrid Inline Plug Housing

**98276**

Dual Row, Vertical



## Features and Benefits

- Secondary locking for 1.5 and 2.8mm (.060 and .110") terminals
- Six mechanical codings correlating with 6 housing colors
- Clip feature for standard fir tree clip

## Reference Information

Packaging: Box  
Mates With: 98273  
Use With: 1.5 and 2.8mm blade terminals  
Designed In: Millimeters

## Electrical

Voltage: 13.5V

Dielectric Withstanding Voltage: 1000V min.  
Insulation Resistance: 200 Megohms min.

## Mechanical

Contact Insertion Force: 1.5mm (.060")—5.0N max.  
2.8mm (.110")—8.0N max.  
Contact Retention to Housing: 1.5mm (.060")—100.0N min.  
2.8mm (.110")—100.0N min.  
Mating Force: 60.0N max.  
Unmating Force: 20.0N min.  
Normal Force: 150N min.  
Durability: 20 cycles

## Physical

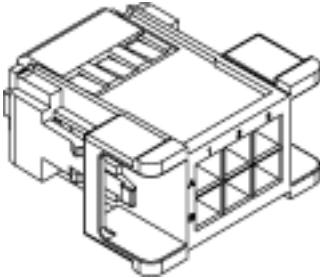
Housing: Glass-filled PBT Polyester, UL 94-HB  
Operating Temperature: -40 to +125°C

Circuits	Order No.	Color	Lead-free
16	<a href="#">98276-1001</a>	Black	Yes
	<a href="#">98276-1002</a>	Green	
	<a href="#">98276-1003</a>	Blue	
	<a href="#">98276-1004</a>	White	
	<a href="#">98276-1005</a>	Brown	
	<a href="#">98276-1006</a>	Gray	

# 5.00mm (.197") Pitch NSCC Wire-to-Board Receptacle Housing

**98438**

**Vertical, with Bridges  
For 2.80mm (.110") Tab**



## Features and Benefits

- Designed for 2.80mm (.110") terminals from Molex
- Secondary locking
- Six mechanical codings available
- Two bridges to avoid damaging of latches
- Unsealed connector system

## Reference Information

Packaging: Box

Mates With: Any 2.80mm (.110") header

Use With: 98898 2.80mm (.110") UCC terminals

Designed In: Millimeters

## Electrical

Current: 15.0A max. @ 85°C

Dielectric Withstanding Voltage: 1000V AC or 1400V DC

Insulation Resistance: 100 Megohms min.

## Mechanical

Contact Insertion Force: 10.0N (2.25 lb) max.

Contact Retention to Housing: 80.0N (17.98 lb) min.

Mating Force: 60.0N (13.49 lb) max.

Unmating Force: 150.0N (33.72 lb) max.

## Physical

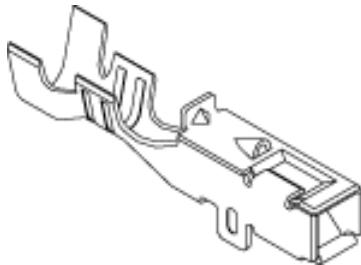
Housing: PBT Polyester, UL 94-HB

Operating Temperature: -40 to +105°C

Circuits	Order No.	Color	Lead-free
6	<a href="#">98438-1001</a>	Natural	Yes
	<a href="#">98438-1002</a>	Black	
	<a href="#">98438-1003</a>	Gray	
	<a href="#">98438-1004</a>	Blue	
	<a href="#">98438-1005</a>	Brown	
	<a href="#">98438-1006</a>	Red	

# 4.00mm (.157") Pitch OBD-II Wire-to-Wire Terminal

50420  
Female



## Features and Benefits

- Two-point contact design provides a redundant electrical interface
- Accepts retainer for additional terminal retention

## Reference Information

Product Specification: PS-50420-0800  
Packaging: Reel  
Use With: 51115 and 51116  
Designed In: Millimeters

## Electrical

Voltage: 30V  
Current: 6.0A max.  
Contact Resistance: 100 milliohms max.  
Dielectric Withstanding Voltage: 1000V AC  
Insulation Resistance: 100 Megohms min.

## Physical

Contact: Phosphor Bronze  
Plating: Contact Area—Tin  
Insulation Diameter: 1.60 to 2.30mm (.024 to .091")  
Operating Temperature: -40 to +85°C

Order No.	Wire Range (mm <sup>2</sup> )	Lead-free
50420-8000	AVS 0.3-0.5	Yes
	AVS 0.30f-0.75f	
	AVSS 0.50-0.85	
	AVS 0.50f-0.75f	
	CAVS 0.50-0.85	

[www.molex.com/customer.html?seriesNumber=50420](http://www.molex.com/customer.html?seriesNumber=50420)

# 4.00mm (.157") Pitch OBD-II Wire-to-Wire Terminal

57964  
Male



## Features and Benefits

- Locking tab secures terminal to housing

## Reference Information

Product Specification: PS-50420-0800  
Packaging: Reel  
Use With: 68503-1602  
Designed In: Millimeters

## Electrical

Voltage: 14V  
Current: 6.0A max.  
Contact Resistance: 100 milliohms max.  
Dielectric Withstanding Voltage: 1000V  
Insulation Resistance: 100 Megohms min.

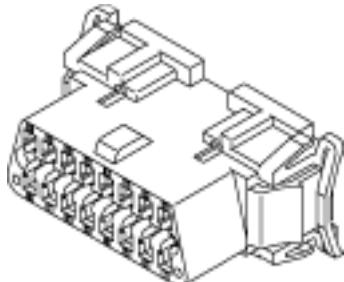
## Physical

Contact: Brass  
Plating: Contact Area—Tin  
Underplating: Copper  
Strip Length: 3.50 to 4.00mm (.138 to .157")  
Wire Range: AVS (CAVS) 0.3 to 0.5  
Operating Temperature: -40 to +85°C

Order No.	Lead-free
57964-9702	Yes

# 4.00mm (.157") Pitch OBD-II Wire-to-Wire Housing

**51115**  
**Female, Panel Mount Type**



Circuits	Order No.
16	<a href="#">51115-1601</a>
	<a href="#">51115-1611</a>

## Features and Benefits

- Size 16 circuits only
- SAE J1962 standard for no board diagnostic
- Panel mount type

## Reference Information

Product Specification: PS-50420-0800

Packaging: Bag

Mates With: 51117 TPA

Use With: 50420

Designed In: Millimeters

## Electrical

Voltage: 30V

Current: 6.0A max.

Contact Resistance: 100 milliohms max.

Dielectric Withstanding Voltage: 1000V AC

Insulation Resistance: 100 Megohms min.

## Mechanical

Contact Insertion Force: 9.8N (2.2 lb)

Contact Retention to Housing: 80.0N min. (with 51117)

Wire Pull-Out Force: 88.2N min. (AVS 0.5)

Mating Force: 142N max.

Unmating Force: 88.0N max.

Durability: 200 cycles

## Physical

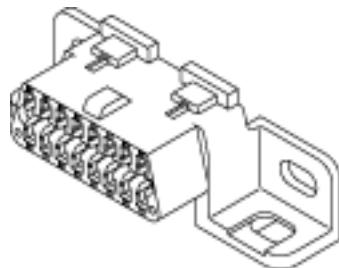
Housing: Polyester, UL 94V-0

TPA: Polyester

Operating Temperature: -40 to +85°C

# 4.00mm (.157") Pitch OBD-II Wire-to-Wire Housing

**51116**  
**Female, Screw Mount Type**



Circuits	Order No.
16	<a href="#">51115-1601</a>
	<a href="#">51115-1611</a>

## Features and Benefits

- Size 16 circuits only
- SAE J1962 standard for no board diagnostic
- Screw mount type

## Reference Information

Product Specification: PS-50420-0800

Packaging: Bag

Mates With: 51117 TPA

Use With: 50420

Designed In: Millimeters

## Electrical

Voltage: 30V

Current: 6.0A max.

Contact Resistance: 100 milliohms max.

Dielectric Withstanding Voltage: 1000V AC

Insulation Resistance: 100 Megohms min.

## Mechanical

Contact Insertion Force: 9.8N (2.2 lb)

Contact Retention to Housing: 80.0N min. (with 51117)

Wire Pull-Out Force: 88.2N min. (AVS 0.5)

Mating Force: 142N max.

Unmating Force: 88.0N max.

Durability: 200 cycles

## Physical

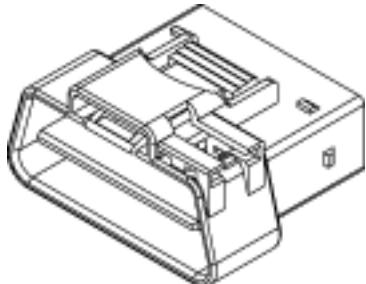
Housing: Polyester, UL 94V-0

TPA: Polyester

Operating Temperature: -40 to +85°C

# 4.00mm (.157") Pitch OBD-II Wire-to-Wire Housing

**68503**  
Male



Circuits	Order No.	Lead-free
16	<a href="#">68503-1602</a>	Yes

## Features and Benefits

- Size 16 circuits only
- SAE J1962 standard for no board diagnostic

## Reference Information

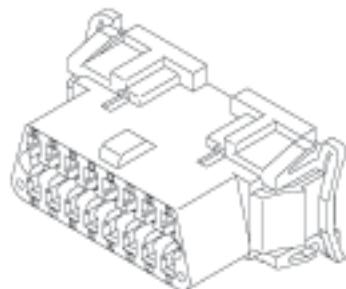
Product Specification: PS-50420-0800  
Mates With: 68503-0101 (wire dress cover),  
68503-0103 (CPA)  
Use With: 57964-9702  
Designed In: Millimeters

## Physical

Housing: Polyester  
Wire Dress Cover: Polyester  
CPA: Polyamide  
Operating Temperature: -40 to +85°C

# 4.00mm (.157") Pitch OBD-II Wire-to-Wire Receptacle Housing

**51115**



Circuits	Order No.	Lead-free
16	<a href="#">51115-1601</a>	Yes

## Features and Benefits

- Size 16 circuit
- Panel mount type

## Reference Information

Product Specification: PS-51115  
Packaging: Bag  
Mates With: 51117 retainer  
Use With: 50420 terminal and 51117 retainer  
Designed In: Millimeters

## Electrical

Voltage: 30V  
Current: 4.0A  
Contact Resistance: 100 milliohms max.  
Dielectric Withstanding Voltage: 1000V  
Insulation Resistance: 100 Megohms min.

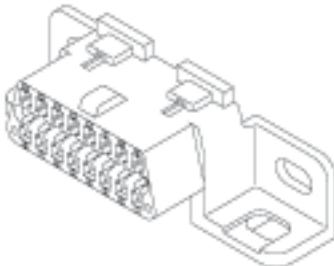
## Mechanical

Contact Retention to Housing: 9.0kg min. (with 51117)  
Wire Pull-Out Force: 9.0kg min. (AVS 0.5)  
Mating Force: 11.23kg max./14.49kg max. (with spring)  
Unmating Force: 8.97kg max.  
Durability: 200 cycles

## Physical

Housing: Black PBTP, UL 94V-0  
Operating Temperature: -40 to +85°C

# 4.00mm (.157") Pitch OBD-II Wire-to-Wire Receptacle Housing **51116**



Circuits	Order No.	Lead-free
16	<a href="#">51116-1601</a>	Yes

## Features and Benefits

- Size 16 circuit
- Flange type

## Reference Information

Product Specification: PS-51116  
Packaging: Bag  
Use With: 50420 terminal and 51118 retainer  
Designed In: Millimeters

## Electrical

Voltage: 30V  
Current: 4.0A  
Contact Resistance: 100 milliohms max.  
Dielectric Withstanding Voltage: 1000V  
Insulation Resistance: 100 Megohms min.

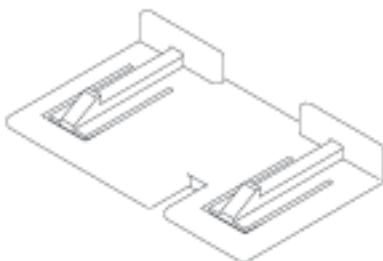
## Mechanical

Contact Retention to Housing: 9.0kg min. (with 51118)  
Wire Pull-Out Force: 9.0kg min. (AVS 0.5)  
Mating Force: 11.23kg max./14.49kg max. (with spring)  
Unmating Force: 8.97kg max.  
Durability: 200 cycles

## Physical

Housing: Black PBTP, UL 94V-0  
Operating Temperature: -40 to +85°C

# 4.00mm (.157") Pitch OBD-II Wire-to-Wire Retainer **51117/51118**



Circuits	Order No.	Use With	Lead-free
16	<a href="#">51117-1605</a>	51115 housing	Yes
	<a href="#">51118-1605</a>	51116 housing	

## Features and Benefits

- Terminal positioning assurance

## Reference Information

Packaging: Bag  
Designed In: Millimeters

## Electrical

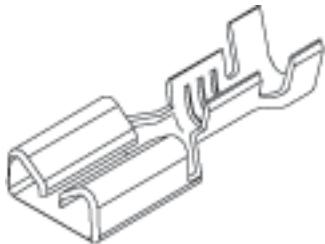
Voltage: 30V  
Current: 4.0A  
Contact Resistance: 100 milliohms max.  
Dielectric Withstanding Voltage: 1000V  
Insulation Resistance: 100 Megohms min.

## Physical

Housing: Gray PBTP, UL 94V-0  
Operating Temperature: -40 to +85°C

# 6.00mm (.236") Tab Wire-to-Wire Terminal

**35427**  
Female  
One-Piece Type



## Features and Benefits

- Low mating force for easy insertion/extraction
- Used with TPA for secure terminal retention

## Reference Information

Product Specification: PS-35270-001  
Packaging: Reel  
Mates With: 35725  
Use With: 35270  
Designed In: Millimeters

## Electrical

Voltage: 14V  
Current: 20.0A max.  
Contact Resistance: 3 milliohms max.  
Dielectric Withstanding Voltage: 1000V  
Insulation Resistance: 100 Megohms min.

## Mechanical

Contact Retention to Housing: 98.1N (22.0 lb) min.  
Wire Pull-Out Force: 343.2N (77.2 lb) min.

## Physical

Contact: Brass  
Plating: See Table  
Operating Temperature: -40 to +85°C

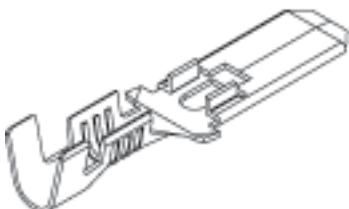
Order No.	Wire Range	Lead-free
35427-970X	AVS (CAVS) 0.30 to 0.50 (.012-.020) mm <sup>2</sup>	Yes
35427-980X	AVS (CAVS) 0.85 to 1.25 (.033-.049) mm <sup>2</sup>	
35427-990X	AVS (CAVS) 2.00 to 3.00 (.079-.118) mm <sup>2</sup>	

Note: Replace X with  
0 = Unplated  
2 = Pre-Tin plated

[www.molex.com/customer.html?seriesNumber=35427](http://www.molex.com/customer.html?seriesNumber=35427)

# 6.00mm (.236") Tab Wire-to-Wire Terminal

**35725**  
Male



## Features and Benefits

- Slip-On terminal locks into housing lance
- Wide tab area for stable contact

## Reference Information

Product Specification: PS-35270-001  
Packaging: Reel  
Mates With: 35427 and 35430  
Use With: 35272  
Designed In: Millimeters

## Electrical

Voltage: 14V  
Current: 20.0A max.  
Contact Resistance: 3 milliohms max.  
Dielectric Withstanding Voltage: 1000V  
Insulation Resistance: 100 Megohms min.

## Mechanical

Contact Retention to Housing: 98.1N (22.0 lb) min.  
Wire Pull-out Force: 343.2N (77.2 lb) min.

## Physical

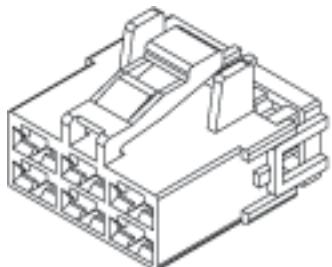
Contact: Brass  
Plating: See Table  
Wire Range: 12 to 22 AWG  
Operating Temperature: -40 to +85°C

Order No.	Wire Range	Lead-free
35725-30X0	20-22 AWG	Yes
35725-18X0	14-18 AWG	
35725-19X0	12-14 AWG	

Note: Replace X with  
0 = Unplated  
1 = Post-tin plated

# 6.00mm (.236") Tab Wire-to-Wire Receptacle

## 35270 Secondary Lock



### Features and Benefits

- Sizes 1 to 6 circuits
- Pre-loaded TPA for secure terminal retention
- Low mating force
- Guide wall protects locking feature

### Reference Information

Product Specification: PS-35270-001

Packaging: Bag

Mates With: 35272

Use With: 35427 and 35430

Designed In: Millimeters

### Electrical

Voltage: 14V

Current: 20.0A max.

Contact Resistance: 3 milliohms max.

Dielectric Withstanding Voltage: 1000V

Insulation Resistance: 100 Megohms min.

### Mechanical

Contact Retention to Housing: 98.1N (22.0 lb) min.

Mating Force: 90.2N (20.3 lb) max.

Unmating Force: 90.2N (20.3 lb) max.

### Physical

Housing: Polyester, UL 94-HB

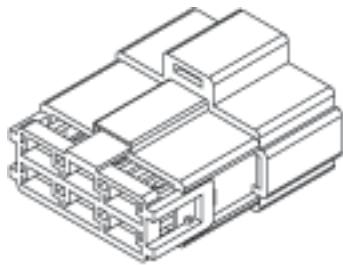
Operating Temperature: -40 to +80°C

Circuits	Order No.
1	<a href="#">35270-0110</a>
2	<a href="#">35270-0210</a>
3	<a href="#">35270-0310</a>
4	<a href="#">35270-0410</a>
6	<a href="#">35270-0610</a>

[www.molex.com/customer.html?seriesNumber=35270](http://www.molex.com/customer.html?seriesNumber=35270)

# 6.00mm (.236") Tab Wire-to-Wire Plug

## 35272 Secondary Lock



### Features and Benefits

- Sizes 1 to 6 circuits
- Pre-loaded TPA for secure terminal retention
- Low mating force
- Clip mounting feature fastens mated harness securely to vehicle

### Reference Information

Product Specification: PS-35270-001

Packaging: Bag

Mates With: 35270

Use With: 35725

Designed In: Millimeters

### Electrical

Voltage: 14V

Current: 20.0A max.

Contact Resistance: 3 milliohms max.

Dielectric Withstanding Voltage: 1000V

Insulation Resistance: 100 Megohms min.

### Mechanical

Contact Retention to Housing: 98.1N (22.0 lb) min.

Mating Force: 90.2N (20.3 lb) max.

Unmating Force: 90.2N (20.3 lb) max.

### Physical

Housing: Polyester, UL 94-HB

Operating Temperature: -40 to +80°C

Circuits	Order No.
1	<a href="#">35272-0120</a>
2	<a href="#">35272-0210</a>
3	<a href="#">35272-0310</a>
4	<a href="#">35272-0410</a>
6	<a href="#">35272-0610</a>

[www.molex.com/customer.html?seriesNumber=35272](http://www.molex.com/customer.html?seriesNumber=35272)



MX07 T-37

# Bulb Socket Sealed Terminal

## 35464 Positive Lock



**Features and Benefits**

- Positive locking terminal
- Available for sealed or unsealed systems

**Reference Information**

Product Specification: PS-35842-001  
Packaging: Reel  
Use With: 35842 and 35843  
Designed In: Millimeters

**Electrical**  
Voltage: 14V  
Current: 7.0A max.  
Contact Resistance: 10 milliohms max.  
Dielectric Withstanding Voltage: 1000V AC  
Insulation Resistance: 100 Megohms min.

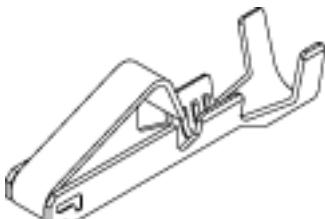
**Physical**  
Contact: Phosphor Bronze  
Plating: Contact Area—Unplated  
Insulation Diameter: 1.90mm (.075") max.  
Strip Length: 2.60 to 3.60mm (.102 to .142")  
Operating Temperature: -40 to +105°C

Order No.	Wire Range (mm <sup>2</sup> )	Lead-free
<a href="#">35464-8000</a>	AVS (AVSS) 0.3-0.85	Yes

[www.molex.com/customer.html?seriesNumber=35464](http://www.molex.com/customer.html?seriesNumber=35464)

# Bulb Socket Sealed Terminal

## 35465 Earth



**Features and Benefits**

- Positive locking terminal
- Available for sealed or unsealed systems

**Reference Information**

Product Specification: PS-35842-001  
Packaging: Reel  
Use With: 35842 and 35843  
Designed In: Millimeters

**Electrical**  
Voltage: 14V  
Current: 7.0A max.  
Contact Resistance: 10 milliohms max.  
Dielectric Withstanding Voltage: 1000V AC  
Insulation Resistance: 100 Megohms min.

**Physical**  
Contact: Phosphor Bronze  
Plating: Contact Area—Unplated  
Insulation Diameter: 1.90mm (.075") max.  
Strip Length: 2.60 to 3.60mm (.102 to .142")  
Operating Temperature: -40 to +105°C

## Bulb Socket

**35843**

**Sealed, Single**



### Features and Benefits

- Used with: 21/5W for double bulb 21W for single bulb
- High temperature material
- Compact size provides space saving
- Easy insertion "push-to-seat" terminal design provides cost savings
- Bottom flange enables easy assembly with lamp
- Simplified lamp design by standardization of light center length
- Silicone wire seal provides good sealing

### Reference Information

Product Specification: PS-35842-001  
 Packaging: Bag  
 Mates With: Lamp  
 Use With: 35464 and 35465  
 Designed In: Millimeters

### Electrical

Voltage: 14V  
 Current: 7.0A max.  
 Contact Resistance: 10 milliohms max.  
 Dielectric Withstanding Voltage: 1000V AC  
 Insulation Resistance: 100 Megohms min.

### Mechanical

Contact Insertion Force: 1.5 kgf max.  
 Contact Retention Force: 8.0 kgf min.  
 Wire Pull-Out Force: 58.3N (13.23 lb) min.  
 Durability: 50 cycles

### Physical

Housing: High-temperature Polyamide, UL 94V-2  
 Operating Temperature: -40 to +105°C

Order No.	Type
<a href="#">35843-1205</a>	A type
<a href="#">35843-1215</a>	B type
<a href="#">35843-1225</a>	C type
<a href="#">35843-1245</a>	D type
<a href="#">35843-1235</a>	EC type

[www.molex.com/customer.html?seriesNumber=35843](http://www.molex.com/customer.html?seriesNumber=35843)

## Bulb Socket

**35842**

**Sealed, Double**



### Features and Benefits

- Used with: 21/5W for double bulb 21W for single bulb
- High temperature material
- Compact size provides space saving
- Easy insertion "push-to-seat" terminal design provides cost savings
- Bottom flange enables easy assembly with lamp
- Simplified lamp design by standardization of light center length
- Silicone wire seal provides good sealing

### Reference Information

Product Specification: PS-35842-001  
 Packaging: Bag  
 Mates With: Lamp  
 Use With: 35464 and 35465  
 Designed In: Millimeters

### Electrical

Voltage: 14V  
 Current: 7.0A max.  
 Contact Resistance: 10 milliohms max.  
 Dielectric Withstanding Voltage: 1000V AC  
 Insulation Resistance: 100 Megohms min.

### Mechanical

Contact Insertion Force: 1.5 kgf max.  
 Contact Retention Force: 8.0 kgf min.  
 Wire Pull-Out Force: 58.3N (13.23 lb) min.  
 Durability: 50 cycles

### Physical

Housing: High-temperature Polyamide, UL 94V-2  
 Operating Temperature: -40 to +105°C

Order No.	Type	Gasket (O-Ring)
<a href="#">35842-0305</a>	A type	No
<a href="#">35842-1305</a>		Yes
<a href="#">35842-0315</a>	B type	No
<a href="#">35842-1315</a>		Yes

[www.molex.com/customer.html?seriesNumber=35842](http://www.molex.com/customer.html?seriesNumber=35842)

