

# Mizu-P25™ 2.50mm (.098") Pitch Miniature Waterproof Connector Systems

50147/50148

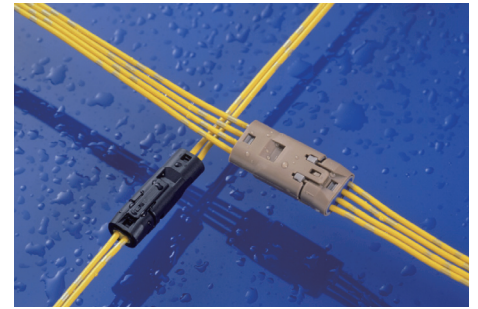
52266/52213 (Mini Type)

50038/50039

52116/52117 (Standard Type)

**Molex's Mizu-P25™ wire-to-wire connector system provides the smallest size and highest level of dustproof and waterproof protection of any similar system in the market today. The system is IP67 rated, which ensures connector integrity when submerged in up to one meter of water.**

**molex®**



Mini Type



Standard Type

## Features and Benefits

Meets IP67 rating	Ensures complete dustproof and waterproof protection
Compact size	Space savings for tight-packaging applications
Positive locks	Provide secure mating retention
Integral seal stopper feature	Assures waterproof protection (located on receptacle side for standard type to meet wire-to-device application needs)
Spring-beam terminal design	Provides high pressure and small deflection for high-vibration applications
Raised-body male terminal design	Provides polarization to prevent mismatching

## Markets and Applications

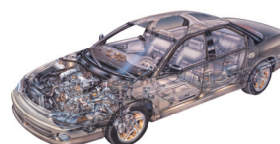
- Mirror Harness
- Lamp harness
- Air Conditioning System
- Powered Rear View Mirrors
- LED Street Lights
- Vending Machines
- Heated Toilet Seat



Mirror Harness



Vending Machines



Automotive



Motorbike

# Mizu-P25™ 2.50mm (.098") Pitch Miniature Waterproof Connector Systems

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## Specifications

### ELECTRICAL

Contact Resistance: 10 milliohms max.

Dielectric Withstanding Voltage: 500V AC/1 min.



Insulation Resistance: 250 Megohms min.

### PHYSICAL

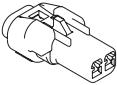
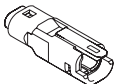
Operating Temperature: -40 to +105 °C

## Ordering Information

### Mizu-P25™ (Mini Type) Crimp Terminals



Image	Type	Part Number	Packaging	Voltage	Current and Wire Range	Insulation Range	Strip Length	Material	Plating	Application Tooling
	Female	<a href="#">50148-8000</a>	Reel	250V max.	3.0A: AVSS/CAVS 0.30 sq. (22 AWG) ISO FLYR 0.35 4.0A: AVSS/CAVS 0.50 sq. (20 AWG) ISO FLYR 0.5	1.40 to 1.90mm	2.00 to 2.50mm	Phosphor Bronze	Tin	See molex.com
		<a href="#">50148-8100</a>	Bag							
	Male	<a href="#">50147-8000</a>	Reel							
		<a href="#">50147-8100</a>	bag							

### Crimp Housings

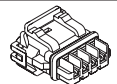
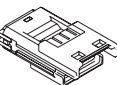
Image	Type	Part Number	Circuit Size	Voltage	Current	Housing Material	Housing Color	Packaging
	Receptacle	<a href="#">52213-0211</a>	2	250V max.	4.0A max.	Glass-filled PBT	Black	Tray
		<a href="#">52213-0311</a>	3					
		<a href="#">52213-0411</a>	4					
		<a href="#">52213-0417</a>	4					
	Plug	<a href="#">52266-0211</a>	2	250V max.	4.0A max.	Glass-filled PBT	Black	Tray
		<a href="#">52266-0311</a>	3					
		<a href="#">52266-0411</a>	4					
		<a href="#">52266-0417</a>	4					

Note: Cap-fitting tool needed for final assembly of housing. Contact Molex for details.

### Mizu-P25™ (Standard Type) Crimp Terminals

Image	Type	Part Number	Packaging	Voltage	Current and Wire Range	Insulation Range	Strip Length	Material	Plating	Application Tooling
	Female	<a href="#">50039-8000</a>	Reel	250V max.	3.0A: AVSS/CAVS 0.30 sq. (22 AWG) AVSS/CAVS 0.50 sq. (20 AWG) ISO FLYR 0.5	1.40 to 1.90mm	2.00 to 2.50mm	Phosphor Bronze	Tin	See molex.com
		<a href="#">50039-8100</a>	Bag							
	Male	<a href="#">50038-8000</a>	Reel							
		<a href="#">50038-8100</a>	bag							

### Crimp Housings

Image	Type	Part Number	Circuit Size	Voltage	Current	Housing Material	Packaging
	Receptacle	<a href="#">52117-024x</a>	2	250V max.	3.0A max.	Glass-filled PBT	Tray
		<a href="#">52117-034x</a>	3				
		<a href="#">52117-041x</a>	4				
	Plug	<a href="#">52116-024x</a>	2	250V max.	3.0A max.	Glass-filled PBT	Tray
		<a href="#">52116-034x</a>	3				
		<a href="#">52116-041x</a>	4				

Note:

\*Replace x with: 0 = White color, 1 = Black color, 2 = Red color (red is available in 2 and 3 circuits only).

†Cap-fitting tool needed for final assembly of housing. Contact Molex for details.

[www.molex.com/link/mizup25.html](http://www.molex.com/link/mizup25.html)