

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

50147/50148

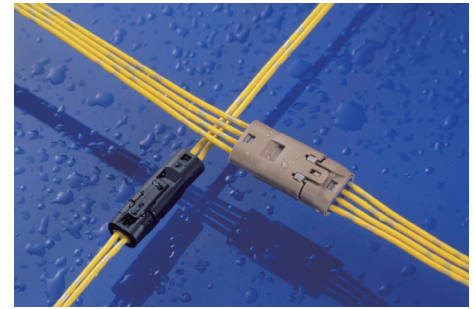
52266/52213 (Mini Type)

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.

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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

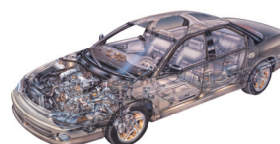
- Mirror Harness
- Lamp harness
- Air Conditioning System
- Powered Rear View Mirrors
- LED Street Lights
- Vending Machines
- Heated Toilet Seat



Mirror Harness



Vending Machines



Automotive



Motorbike

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Specifications

ELECTRICAL

Contact Resistance: 10 milliohms max.

Dielectric Withstanding Voltage: 500V AC/1 min.



Insulation Resistance: 250 Megohms min.

PHYSICAL

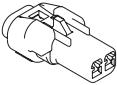
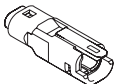
Operating Temperature: -40 to +105 °C

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	50148-8000	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
		50148-8100	Bag							
	Male	50147-8000	Reel							
		50147-8100	bag							

Crimp Housings

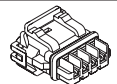
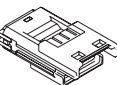
Image	Type	Part Number	Circuit Size	Voltage	Current	Housing Material	Housing Color	Packaging
	Receptacle	52213-0211	2	250V max.	4.0A max.	Glass-filled PBT	Black	Tray
		52213-0311	3					
		52213-0411	4					
		52213-0417	4					
	Plug	52266-0211	2	250V max.	4.0A max.	Glass-filled PBT	Black	Tray
		52266-0311	3					
		52266-0411	4					
		52266-0417	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	50039-8000	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
		50039-8100	Bag							
	Male	50038-8000	Reel							
		50038-8100	bag							

Crimp Housings

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