

Molex's Mizu-P25™ miniature wire-to-wire connectors provide 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.

Ideal for applications such as motorcycles or air conditioners that continue to pack more complicated electronics into smaller spaces, the Mizu-P25™ system provides assurance that dust or water will not interfere with signal integrity.

The Mizu-P25™ family includes two sub-families: the 52213/52266 type, which is rated up to 125 volts; and the 52116/52117 type, rated up to 250 volts. Both systems offer features such as integral sealing and secure positive locks. In addition, both versions provide some of the smallest mated diameters of any similar system.

FEATURES AND BENEFITS

勝 特 力 材 料 886-3-5753170 胜特力电子(上海) 86-21-34970699 胜特力电子(深圳) 86-755-83298787 Http://www. 100y. com. tw

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

50147/50148 52266/52213 125 Volts Type 50038/50039 52116/52117 250 Volts Type

50147/50148/52266/52213 Series



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



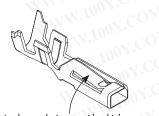
Raised body design provides polarization



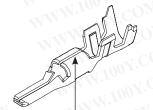
Low Voltage Type



50038/50039/52116/52117 Ser



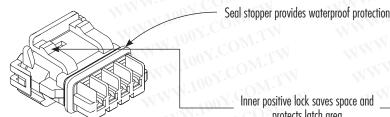
Unique spring-beam design provides high pressure and small deflection for high vibration applications



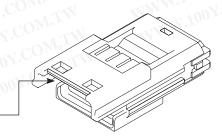
Raised body design provides polarization



High Voltage Type



Inner positive lock saves space and protects latch area



SPECIFICATIONS

Electrical

• Contact Resistance: 10 milliohms max.

• Insulation Resistance: 250 Megohms min.

• Operating Temperature: -40 to +105 °C

Mizu-P25™ (125 Volts type) Crimp Terminals

Image	Туре	Part Number	Packaging	Voltage	Current	Wire Range	Insulation Range	Strip Length	Material	Plating	Application Tooling
	Female	50148-8000	Reel	125 Volts	3.0A	AVSS/CAVS 0.30 sq. (22 AWG)	1.40 ~ 1.70mm	2.00 ~ 2.50mm	Phosphor Bronze	Tin	See molex.com
		50148-8100	Bag								
ENT.	N	50147-8000	Reel	max.	DAM	AVSS/CAVS					
	Male	50147-8100	Bag	001.0	4.0A	0.50 sq. (20 AWG)	WWW.10	ON.CO	M.I.	N	

Crimp Housings

Image	Туре	Part Number	Circuit Size	Voltage	Current	Housing Material	Housing Color	Packaging
MVI NV CO	M. TW	52213-0211	2 Y.C	OMITW	7	WW.100Y.	Black	
	Receptacle	52213-0311	3	COM.TY	1		Black	7
	COM.TV	52213-0417	4100	125 Volts max.	4.0 max.	Glass-filled PBT	Brown	Tray
	COM.T	52266-0211	2/10/				Black	
	Plug	52266-0311	3	ON.COM			Black	TW
	WY.COM	52266-0417	4	100 Y.CO	WIT		Brown	WTN

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

Mizu-P25™ (250 Volts type) Crimp Terminals

Image	Туре	Part Number	Packaging	Voltage	Current	Wire Range	Insulation Range	Strip Length	Material	Plating	Application Tooling
Wan W	radil	50039-8000	Reel	Ñ	MA	100Y.	COMITY	-7	WW	N.100	Y.COM.
W. W.	Female	50039-8100	Bag	250 Volts	2.04	AVS 0.30 sq.	1.80 ~	2.00 ~	Phosphor	Ú.10	OX.COM
Charles and the contract of th	-411	50038-8000	Reel	max.	3.0A	(20-22 AWG)	1.90mm	2.50mm	Bronze	Tin	See molex.com
	Male	50038-8100	Bag	TAN			OX.COM	TW		WW	

Crimp Housings

Image	Туре	Part Number	Circuit Size	Voltage	Current	Housing Material	Packaging
	MMM	52117-024x	2	250 Volts	3.0 max.		M.M.M.100 M.M.M.1002 M.M.N.1002
	Receptacle	52117-034x	3				
	W	52117-041x	OM-4				
	V	52116-024x	2	max.	3.0 max.	Glass-filled PBT	Tray
	Plug	52116-034x	CO 3	W	1 100 X	COMITY	
		52116-041x	4	N W	WW. 1007	COM	

^{*}Note: Replace x with: 0 = White color, 1 = Black color, 2 = Red color (red is available in 2 and 3 circuits only). †These 52116/52117 series have a version which accepts thinner and lighter AVSS 0.30 square wire (-0243 order number), and a two-circuit version contained in a wider four-circuit body size (-0413 order number). ‡Cap-fitting tool needed for final assembly of housing. Contact Molex for details.

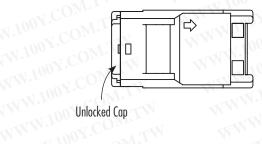


APPLICATION INFORMATION



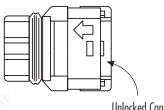
How the Mizu-P25™ System Works (52116/52117 Type Shown Below)



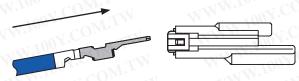


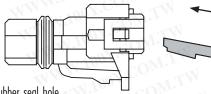
Make sure connector cap is in unlocked position



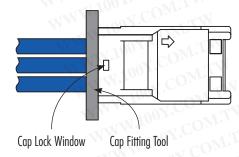


Unlocked Cap



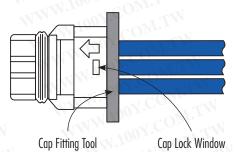


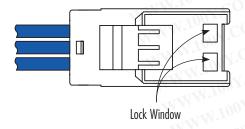
Insert crimped terminal into wire-end rubber seal hole and push the terminal in until you hear it click



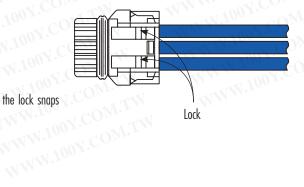
Tug on the wire to confirm proper insertion of the terminal. Use "Cap Fitting Tool" to seat the cap into the plug and receptacle

Check and confirm that you can see more than half of cap lock through cap lock window





Match direction of lock and insert until the lock snaps in place



Note: Cap-fitting tool needed for final assembly of housing. Contact Molex for details. WWW.100Y.C

MARKETS AND APPLICATIONS

- Mirror harness
- Lamp harness
- Air conditioning system
- Powered rear view mirrors
- LED street lights
- Vending machines
- Heated toilet seat



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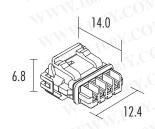


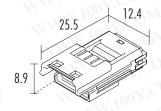




DIMENSIONAL COMPARISON

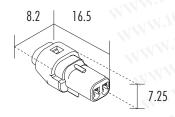
52117/52116 Series - 2 and 3 circuits

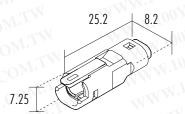






52213/52266 Series - 2 circuits





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