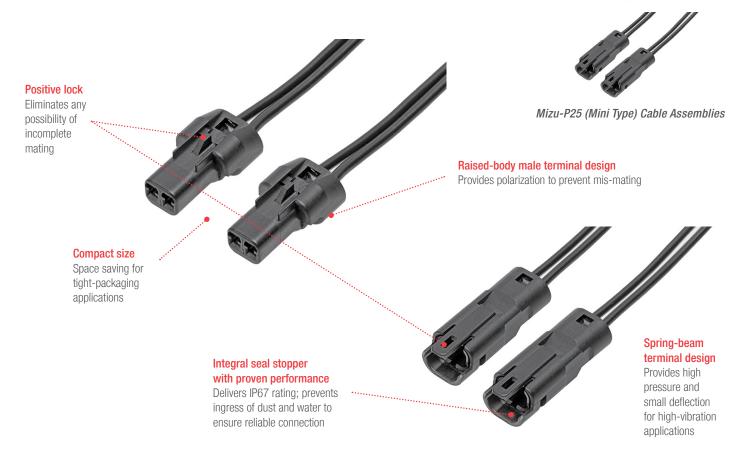
Off-The-Shelf Mizu-P25 (Mini Type) Cable Assemblies

molex

Off-The-Shelf Mizu-P25 (Mini Type) Cable Assemblies feature 2.50mm pitch, up to 4.0A current and an IP67 rating with a variety of cable lengths

Features and Advantages



Markets and Applications

Automotive Consumer

Door electronics Washing machines
Lamp mirrors Vending machines
Mirror harnesses Water heaters
Parking sensors Air conditioners

Powered rear-view mirrors

Switches Industrial / Industrial Automation

Wipers LED lighting

Steering controls







Consumer Appliances

Off-The-Shelf Mizu-P25 (Mini Type) Cable Assemblies



Specifications*

REFERENCE INFORMATION

Packaging: See product specs UL File No.: E29179

Mates With: Mizu-P25 receptacle/plug Terminals Used: Series 50147 and 50148

Designed In: millimeters

RoHS: Yes Halogen-Free: No V-O: Yes

Glow wire Compliant: No

*Information is based on Mizu-P25 connector specifications

ELECTRICAL

Voltage (max.): Upto 60V Current (max.): Upto 4.0A Contact Resistance: 10 milliohms Dielectric Withstanding Voltage:

500V AC for 1 minute between adjacent terminals

Insulation Resistance (min.): 250 Megohms

MECHANICAL

Contact Insertion Force (max): 58.8N Contact Retention to Housing (min): 29.4N Mating Force: 49.0 N to 58.8N (depending on number of circuits) Unmating Force: 14.7 N to 49.0N (depending on number of circuits)

PHYSICAL

Pitch: 2.50mm Wire Gauge: 0.5 sq.mm Housing: Polyester Contact: Phosphor Bronze

Plating: Tin

Operating Temperatures: -40 to +105°C

Ordering Information

Series	Component	Circuits	Lengths (mm)
<u>215310</u>			
<u>215311</u>	NE POS ANTITE NO LLA LIV	2, 3 and 4	150, 300 and 600
<u>215312</u>	Mizu-P25 (Mini Type) Cable Assemblies		
<u>215313</u>			

Custom product	Description
Contact Molex	Mizu-P25 (Mini Type) Custom Cable Assemblies

www.molex.com/link/otscableassemblies.html

Off-the-Shelf MX150 Cable Assemblies

molex

Off-the-Shelf MX150 Cable Assemblies deliver a 22.0A current rating and offer a variety of cable lengths for automotive and commercial vehicle applications

Features and Advantages

Mat seal technology for MX150 (1.50mm) terminals

Eliminates the need for individual cable seals, which affords reduced package size and reduced cost

Connector position assurance (CPA) option available

Assures connectors have been fully mated and prevents accidental disconnection



MX150 Cable Assemblies

1-piece 3.50mm-pitch housing

Eliminates unnecessary and costly assembly Operations; offers a compact connector

Preassembled terminal position assurance (TPA) housing

Ensures crimped terminal leads are properly locked into connector



Temperature class 4 (-40 to +125°C) and 22.0A current rating

Delivers superior performance

Grommet cap

Protects the mat seal and assures proper alignment of the terminals

4 polarization and color options

Facilitates quick visual installation

V0 versions available (UL1977 certified)

Meets stringent safety requirements

Flashover options (custom void patterns) available

Provides design flexibility

USCAR interface

Has a released and approved interface for major North America OEMs

Conforms to USCAR-2/ USCAR-21/GMW3191

Is for use in on-engine, highvibration, under-hood and under-chassis environments at temperature class 4

Off-the-Shelf MX150 Cable Assemblies

molex

Markets and Applications

Automotive and Commercial Vehicles

Transmissions

Head/tail lamps

Body harnesses

Wipers, washers, defoggers

Speedometers

A/C modules

Turn signals

Airbag harnesses

Speakers

Door connectors

Brake modules

Horns

Marine equipment

Consumer/Home Appliances

White goods

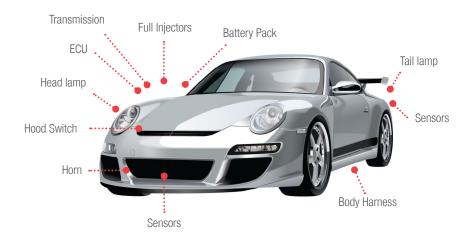
LED lightings

Industrial

Automation equipment

Process control equipment

Construction equipment





Off-the-Shelf MX150 Cable Assemblies



Specifications

REFERENCE INFORMATION

Packaging: Bulk (connectors); reels (terminals)

UL File No.: N/A CSA File No.: N/A Use With: 14 AWG Insulation Diameter: 2.5mm Designed In: Millimeters

RoHS: Yes Halogen-Free: No Glow Wire Compliant: No IP Rating: IP67

*Information is based on MX150 connector specifications

ELECTRICAL

Voltage (max.): 14V DC Current (max.): Up to 22.0A

Contact Resistance (max.): 10 milliohms
Dielectric Withstanding Voltage: 1000V AC (unmate connectors for 1 minute between adjacent terminals and between terminals to ground)
Insulation Resistance (min.): 20 Megohms

MECHANICAL

Terminal Insertion Force (max): 30N Terminal Retention to Housing (min): 90N

Mating Force (max.): 75N Unmating Force (min.): 110N Durability (max.): 25 cycles

PHYSICAL

Housing: SPS/nylon Contact: Copper Alloy

Plating:

Contact Area – Tin Underplating – Tin

Operating Temperatures: -40 to +125°C

Ordering Information

	Component	Circuits	Lengths (mm)
216280			
216281	Off-the-Shelf MX150 Cable Assemblies	2.2.4 and 6	150, 200 and 600
216282			
216283			
216285	OIT-tile-Shell MATOU Cable Assemblies	2,3, 4 and 6	150, 300 and 600
216286			
216287			
216288			

Custom product	Description
Contact Molex	Off-the-Shelf MX150 Custom Cable Assemblies

www.molex.com/link/otscableassemblies.html



Off-the-Shelf (OTS) Squba Discrete Wire Cable Assemblies

OTS Squba Discrete Wire Cable Assemblies offer a 1.80mm pitch and an IP68 NEMA rating, and they are available in a variety of cable lengths to facilitate both prototyping and global production

FEATURES AND ADVANTAGES

Sealed components with proven performance

Provides IP68 NEMA rating. Prevents ingress of dust and water to ensure reliable connection

UL 1061 discrete wires for cable assemblies

Ready to use in electronic appliance applications. Provide ease of design, prototyping and production

Meets 2011/65/EU RoHS Compliance

Decreases engineering time and resources

OTS Squba Discrete Wire Cable Assemblies deliver 5.0A per circuit with a 1.80mm pitch

Delivers reliable power for a wide range of space constrained applications







Squba Cable Assembly Family

Assembled in ISO/TS16949certified facilities

Ensures high quality. Meets current automotive industry standards

Pin-to-pin mapping from receptacle to PCB header

Provides ready-to-use, plug-and-play connections

Custom assemblies for production also available

Meets design needs after prototyping is complete. Molex's extensive design and manufacturing expertise can meet the unique challenges of the most demanding applications

APPLICATIONS

Consumer

HVAC

Landscaping equipment Liquid dispensing equipment Outdoor lighting Security systems

Commercial Vehicle

ATVs Buses **Forklifts** Marine: Under-dash wiring, liahtina Recreational vehicles Trucks

Industrial Automation

Food processing equipment Industrial controls Industrial machines and motors Robotics



ATV



Outdoor Lighting



Security Systems



HVAC



Bus

Industrial Automation



Off-the-Shelf (OTS) Squba Discrete Wire Cable Assemblies

SPECIFICATIONS

REFERENCE INFORMATION

Receptacle Packaging: Tray Plug Packaging: Bulk

Crimp Terminal Packaging: Reels

UL File No.: TBD CSA File No.: TBD

Use With: 22 AWG 1016 wire Designed In: Millimeters

RoHS: Yes Halogen Free: No

Glow Wire Compliant: TBD

IP Rating: IP68

ELECTRICAL

Voltage (max.): 125V Current (max.): 5.0A

Contact Resistance: 10 milliohms

Dielectric Withstanding Voltage: Leakage < 5mA Insulation Resistance (min.): 100 Megohms

MECHANICAL

Terminal Insertion Force (max.): 5N Terminal Retention to Housing (min.): 30N

Mating Force (max.): 45N Un-mating Force (max.): 35N Durability (max.): 10 Cycles

PHYSICAL

Housing: Plastic Contact: Copper Alloy

Plating: Overall — Tin

Under-plating — Nickel

Operating Temperature: -40 to +105 C

ORDERING INFORMATION

Series No.	Component	Circuit Count	Lengths	
<u>45145</u>	Receptacles	2, 4, 6, 8, 10	150.00mm, 300.00mm, 1.0m	
<u>45146</u>	Plugs	2, 4, 6, 8, 10		

Custom Product	Description	
Contact Molex	Squba Discrete Wire Cable Assemblies Custom Lengths and Other Options	

www.molex.com/link/otscableassemblies.html



Off-the-Shelf Squba 3.60mm-Pitch Sealed Wire-to-Wire Connector System>

Off-the-Shelf Squba 3.60mm-Pitch Sealed Wire-to-Wire Connector System is a patent-pending design that offers an IP68 NEMA rating and carries 14.0A of current to deliver reliable power in a wide range of space-constrained applications

FEATURES AND ADVANTAGES

Protected, low-profile

Prevents wire from getting caught on latch and damaging it. Minimizes latch size to prevent latch from adding to connector's package size



Delivers IP68 NEMA rating. Prevents ingress of dust and water to ensure reliable connection

Wraparound insulation crimp

Provides security against seal punctures

Primary lock enables 40N terminal retention

Delivers a reliable connection. Withstands vibration







Squba 3.60mm-Pitch cable Assemblies

Miniature size (3.60mm pitch)

Alleviates space constraints

Seal caps

Protect seals from damage during shipping, handling and use. Align terminals to prevent seal from being punctured during assembly

Seal cap's protective terminal channels

Align terminals during insertion to prevent punctures to seal during connector assembly







Off-the-Shelf Squba 3.60mm-Pitch Sealed Wire-to-Wire Connector System >

APPLICATIONS

Consumer

Liquid dispensing equipment Hvac equipment Security systems Outdoor lighting Landscaping equipment

Commercial Vehicle

ATV

Marine: under-dash wiring, lighting

Forklifts
Trucks
Buses
Aviation
Recreational vehicles

Industrial

Robotics Industrial machines and motors Food processing equipments/plants Industrial controls

Equipment

Liquid dispensers



Security Systems



Robotic Arm



IVAC



ATV

SPECIFICATIONS

REFERENCE INFORMATION

Packaging: Bulk (Connectors); Reels (Terminals) UL File No.: E29179 CSA File No.: N/A

Use With: 16 AWG

Insulation Diameter: 1.90 to 2.40mm

Designed In: millimeters

RoHS: Yes Halogen Free: No Glow Wire Compliant: Yes IP Rating: IP68

ELECTRICAL

Voltage (max.): 600V
Current (max.): up to 14.0A
Contact Resistance: 10 milliohms
Dielectric Withstanding Voltage: 2200 VAC
(Unmate connectors for 1 minute between adjacent terminals and between terminals to ground)
Insulation Resistance: 1000 Megohms

MECHANICAL

Terminal Insertion Force (max.): 15N Terminal Retention to Housing: 40N Mating Force: 50N Unmating Force: 10N Durability (max.): 25 Cycles

PHYSICAL

Housing: Nylon Contact: Copper Alloy Plating: Contact Area — Tin Underplating — Tin

Operating Temperatures: -40 to +105 C

^{*}Information is based on Squba 3.60mm-Pitch connector specifications



Off-the-Shelf Squba 3.60mm-Pitch Sealed Wire-to-Wire Connector System >

ORDERING INFORMATION

Series	Component	Circuits	Lengths (mm)
216620	Squba 3.60mm-Pitch Cable Assemblies		
216621		2.2 4.4	150, 200 and 600
216622		2, 3 and 4	150, 300 and 600
<u>216623</u>			

Custom product	Description	
Contact Molex	Squba 3.60mm-Pitch Custom Cable Assemblies	