



The MX150™ high-performance Sealed Connector System offers a reduced package size, meets or exceeds USCAR-2 Class 3 requirements and is ideal for SAE and ISO-style wire in single and dual-row configurations up to 22.0A, supporting low-level signal and power applications for on-engine automotive to off-road construction equipment

The MX150™ Sealed Connector System consists of matte- and cable-sealed blade and receptacle connectors, providing customers flexibility to choose the best solution based on manufacturing costs. This system is based upon the 1.50mm ISO blade-type terminal system, available in tin, gold or silver contact finishes, therefore eliminating the need to purchase, handle and crimp individual wire seals to lower applied cost.

This design has a single silicone-based seal with individual wire openings and a seal cap to protect, securely retain and provide strain relief to the seal, and features an all-in-one plug and receptacle housings.

Integral terminal position assurance (TPA) and optional connector position assurance (CPA) components eliminate time-consuming and costly assembly operations.

MX150™ Sealed Headers meet the demand for rugged, environmentally sealed connector systems for use in high-temperature automotive and other transportation applications. Molex's sealing interface has been optimized to meet IP6K7 and IP6K9K sealing requirements. Designed for under-hood and on-chassis vehicle environments, the MX150 sealed headers complement the widely used and industry-recognized MX150 female receptacle connectors (series 33471 and 33472).

MX150 sealed headers are designed to be attached with adhesives to an aluminum casting or molded plastic module housing to offer increased sealing capability for the most demanding environments. For previous wire-to-board applications, customers were required to tool the USCAR-specified interface directly into their end products. Today, MX150 headers simplify customer device tooling by incorporating the interface geometry directly into the sealed headers. Customers no longer need to maintain the stringent USCAR dimensional requirements in their tooling to meet USCAR footprint requirements.

MX150™ Panel-Mount Connectors ensure simplified and reliable mating and assembly while providing superior sealing and electrical performance in rugged automotive and non-automotive applications.

This wire-to-wire connection system requires no curing to seal the blade connector to the case and provides flexibility in printed circuit board location and orientation.

It also has integrated screw holes for mounting the connector to the case. MX150 Panel-Mount Connectors are ideal for high-temperature environments and employ gasket-seal technology to meet industry-standard sealing requirements.

MX150™ Twist-Lock Sealed Bulkhead Connectors simplify connector assembly by eliminating the need for additional fasteners. These connectors employ ring-seal technology to meet industry-standard sealing requirements.

MX150™ Backshells provide added protection from road debris and other contaminants. Harness wires are exposed to dust, moisture and dirt; the backshells cover the wire harnesses and help prevent electrical issues in a vehicle. The backshells are designed to feature encased wires to address engine beautification trends.

MX150™ Standard and M3 Grip Terminals are designed to support 0.35 and 0.50mm² wire sizes. The terminals are a temperature Class 3 (-40 to +125°C). Designed for automotive applications, the terminals feature a reduced package that size is ideal for ISO wires.

MX150™ Sealed Connector System 3.50mm (.138") Pitch

Standard MX150 System

- 33471** Single-Row Receptacle Connectors
- 33472** Dual-Row Receptacle Connectors
- 33481** Single-Row Blade Connectors
- 33482** Dual-Row Blade Connectors
- 33476** Hybrid Receptacle Connectors
- 34986** Hybrid Blade Connectors
- 34345** Cavity Plugs

Sealed Headers

- 34829** Dual-Row, Right Angle, Solder Tail
- 34830** Dual-Row, Right Angle, Compliant Pin

Panel-Mount Connectors

- 47725** Panel-Mount Connectors

Twist-Lock Sealed Bulkhead Connectors

- 34840** Twist-lock Connectors

Backshells

- 34949** Receptacles, 1-by-2
- 34951** Receptacles, 2-by-3, 2-by-6
- 34948** Blades, 1-by-2
- 34950** Blades, 2-by-3, 2-by-6

Standard and M3 Grip Terminals

- 33000** Tin, Male Blades
- 33001** Silver and Gold, Female Receptacles
- 33011** Silver and Gold, Male Blades
- 33012** Tin, Female Receptacles



MX150™ Sealed Connector System 3.50mm (.138") Pitch



MX150™ Sealed Connector System
Product Family



MX150™ M3 Grip Terminals
(Series 33000, 33001, 33011, 33012)



MX150™ Backshells
Left: closed; Right: open
(Series 34939, 34951, 34948, 34950)



MX150™ Panel-Mount Connector
(Series 47725)



MX150™ Sealed Headers
(Series 34829, 34830)



MX150™ Twist-Lock Dual-Row Sealed
Bulkhead Connectors (Series 34840)
Left to right: 2-by-3, 2-by-4

Features and Benefits

Standard Connector System

Reduced 3.50mm (.138") pitch housing design	Supports single-row configurations for 2, 3, 4, 5 and 6 circuits and dual-row configurations for 4, 6, 8, 12, 16, 20 and 16 circuit hybrid
Pre-assembled housing, seal, TPA components and matte-seal connector shipped as single assembly	Offers applied labor and cost savings
Protective matte-seal cap	Protects, securely retains and provides strain relief to wire seal interface
Unused circuits can be blocked using plastic seal plugs	Facilitate flexibility of sealing unused circuits without adding complexity to part numbers and customer inventory
Simple crimp, poke and plug design	Removes the need to crimp individual wire seals
Easy terminal extraction and insertion	Enables quick, low-cost field repairs using common screw driver, needle nose pliers and terminal extraction tool
High connector and terminal retention forces	Exceed USCAR-2 Rev 4 specifications. Offer high reliability under extreme conditions
Integral Terminal Position Assurance (TPA)	Assures that crimped terminal leads are properly locked into connector (TPA will not seat into final locked position and connector system will not latch if terminal is not locked properly into position)
Integral locking latch with secondary, pre-loaded connector position assurance (CPA) option	Confirms positive mating of connector and proper latching (CPA will not move to final locked position if connector is not latched)
Audible clicks and tactile feedback on insertion, extraction and mating	Facilitates reliable mating and terminal loading and removal
Superior electrical and mechanical performance capabilities	Surpass performance of most mature competitive products in the market
Conforms to USCAR-20 (FCLT) / USCAR-2 Rev 4 / USCAR-21	Supports use in on-engine, high-vibration, under-hood and under-chassis applications at Class 3 temperatures (-40 to +125°C)
Integral, matte and interfacial seals designed and tested to IEC IP6K7 and IP6K9K and SAE USCAR-2 Rev 4 standards	Exceed "waterproof" demands as a true sealed connector system tested under submersed conditions in various fluids

Specifications

Standard Connectors and Receptacles

Reference Information

Packaging:

- Housings – Bulk Pack
- Terminals – Reel

Mates With:

- Receptacle Connector Series:
33471, 33472, 33476

- Blade Connector Series:
33481, 33482, 34986

Use With:

- Terminals:
Receptacle (Series 33001, 33012)
Blade (Series 33000, 33011)

Accessories:

- Backshells
(Series 34948, 34949, 34950, 34951)
- Cavity Plug for unused cavities
(Series 34345)

Designed in: Millimeters

Electrical

Voltage (max.): 500V

Current (max.): 22.0A

Contact Resistance: 10 milliohms max.

Dielectric Withstanding Voltage:

1500V AC min.

Isolation Resistance: 20 Megohms min.

Physical

Housing:

20% SPS/ Nylon Blend, UL 94-HB

TPA:

20% Glass Filled SPS/Nylon Alloy

Contact: Copper (Cu) Alloy

Plating:

Contact Area —

Tin (Sn), Gold (Au) or Silver (Ag)

Underplating — Nickel

Wire Gauge:

ISO Wire: 0.35mm² to 2.00mm²

SAE Wire: 14 to 22 AWG

Insulation Diameter:

2.70 to 1.50mm (.106 to .059")

Operating Temperature:

-40 to +125°C

Mechanical/Electrical/Sealing

Mating Force:

Less than 75N (16.86 lb) max.

Unmating Force:

Less than 75N (16.86 lb) max.

Connector Retention (Primary latch):

255N (57.33 lb) avg.
(exceeds 110N (24.73 lb) min.
USCAR requirement)

Contact Retention to Housing:

210N (47.21 lb) avg.
(exceeds 90N (20.23 lb) min.
USCAR requirement)

Contact Insertion Force Into Housing:

30N (6.74 lb) max.

Contact Insertion Force:

4.4N (1.0 lb) max.

Connector Audible Feedback:

7dB over ambient

Polarization Feature Effectiveness:

220N (49.46 lb) min.

FCLT (Class 3):

20 milliohms max.

Durability: 10 milliohms max.

Tin (Sn) Plating – 25 Cycles

Silver (Ag) Plating – 100 Cycles

Gold (Au) Plating – 100 Cycles

Thermal Shock (class 3, 100 cycles):

10 milliohms max.

High Temperature Exposure:

Pressure/Vacuum Immersion –

28 kPa (4psi) 30 minutes

Isolation resistance –

20 Megohms @ 500V DC min.

Vibration:

(USCAR-2 Rev 4) 10 milliohms max.

Random "On-Engine" Profile:

118.7 mps² rms, 60 to 1,200 Hz

Mechanical Shock:

343 mps², half-sine wave,

10 msec Pulse

Vibration:

(GMW 3191) 10 milliohms max.

Random "On-Engine" Profile:

170 mps² rms, 10 to 1,500Hz

Sine "On-Engine" Profile:

280 mps² Pk, 100-440 Hz

Mechanical Shock:

245 mps², half-sine wave,

10 msec pulse

Sealing: (USCAR-2 Rev 4) (GMW3191)

Heat Soak Submersion:

+125°C and submersion depth of
40.00cm (15.75") water

Pressure/Vacuum Immersion:

48 kPa (7 psi) IEC 529, IP6K7,
IP6K9K

Isolation Resistance:

20 Megohms @ 500V DC min.

MX150™ Sealed Connector System 3.50mm (.138") Pitch



MX150™ Standard Connectors and Receptacles
(Series 33471, 33472, 33481, 33482, 33476, 34986, 34345)

Features and Benefits

Sealed Headers

High-temperature thermoplastic housing	Withstands wave soldering processing and tin/lead infrared (IR)-reflow soldering. Withstands Class 3 (-40 to +125°C) operating environments
Solder-tail and compliant-pin electrical interfaces	Provides module design flexibility. Compliant-pin headers can be utilized for lead-free, IR reflow applications
Header retention design	Protects adhesive joints during connector mating and unmating
Sealing geometry	Incorporates a spray shield necessary to meet IP6K7 and IP6K9K sealing performance requirements
Board-alignment and retention features	Simplify header PCB placement and retain header to PCB during soldering operation(s)

Specifications

Sealed Headers

Reference Information

Packaging:
Headers – Trays
Mates With:
Receptacle connectors, Series 33472
Designed in: Millimeters

Physical

Housing: 30% Glass Filled PBT
Terminal: Copper (Cu) Alloy
Size: 1.20 X 0.80 mm
Plating:
Tin (Sn) (Silver (Ag) coming soon)
Underplating: Nickel (Ni)
PCB Interface:
Solder tail or Compliant pin
Module attachment type: Adhesive
Operating Temperature: -40 to +125°C

Electrical

Voltage (max.): 500V DC
Current (max.): 22.0A
Contact Resistance (max.):
10 milliohms
Dielectric Withstanding Voltage: 1000V
Isolation Resistance (min.):
20 Megohms min.

Mechanical / Electrical / Sealing

Durability (max.):
10 milliohms at 10 cycles
Physical Sealing: (GMW3191) and IP67K



MX150™ Sealed Headers
(Series 34829, 34830)

Features and Benefits

Panel-Mount Connectors

Gasket seal	Meets IP6K7 and IP6K9K sealing requirements
High-temperature thermoplastic housing	Withstands Class 3 (-40 to +125°C) operating environments
Terminal insertion, extraction and connector mating provides audible and tactile feedback	Facilitates reliable mating and terminal loading upon assembly
Easy terminal extraction and insertion	Provides simple serviceability
Pre-assembled Terminal Positioning Assurance (TPA)	Offers cost savings
Mounts from the inside-out of the module	Allows the operator quicker installation
Conforms to USCAR-2 color pallet (black and three shades of gray)	Maintains visual polarization effects
Housing can be molded into plastic or die-cast materials	Supports design flexibility
Mates to existing MX150 connectors	Eliminates the need for additional components

Specifications

Panel-Mount Connectors

Reference Information

Packaging:

Housings – Packed in trays

Mates With:

Receptacles Series 33472

Use With:

Terminals:

Female Series: 33001, 33012

Blade terminal series: 33000, 33011

MX150 Sealed Plug

Cavity Plug (for unused cavity):

Series 34345

Designed in: Millimeters

Electrical

Voltage (max.): 500V DC

Current (max.): 22.0A

Contact Resistance: 8 milliohms max.

Dielectric Withstanding Voltage:

1000V AC min.

Isolation Resistance:

100 Megohms min.

Physical

Housing:

20% Glass Filled SPS/ Nylon,

UL 94-HB

TPA: 20% Glass Filled SPS/Nylon

Wire Gauge:

ISO Wire: 0.35 to 2.00mm²

SAE Wire: 14 to 22 AWG

Insulation Diameter:

2.69 to 1.20mm (.106 to .047")

Operating Temperature: -40 to +125°C

Mechanical / Electrical / Sealing

Durability:

8 milliohms max. at 10 cycles

Sealing: (GMW3191)



MX150™ Panel-Mount Connectors (Series 47725) (available in four polarization colors)

Features and Benefits

Twist-Lock Sealed Bulkhead Connectors

Twist-lock latching design with audible, tactile and visual feedback	Ensures reliable mating and locking upon assembly. Eliminates the need for additional fasteners
Integral ring seal	Meets industry-standard sealing requirements, using proven interfacial seal technology to facilitate reliable sealing
Outside-in mounting design with a 42.00mm pass-through hole	Eliminates the potential to push the bulkhead connector back into the module. Improves high-pressure spray capability. Allows for easy access inside and outside of the module
High-temperature thermoplastic housing	Withstands Class 3 (-40 to +125°C) operating environments
Sealing geometry	Incorporates a spray shield necessary to meet IP6K7 and IP6K9K sealing performance requirements
Terminal Positioning Assurance (TPA)	Ensures terminals are fully seated and will not back out during mating
Terminal Positioning Assurance (TPA) probe hole	Allows for simple terminal serviceability
Four discrete mechanical and visual polarization options	Meet the new, USCAR-approved color pallet (black and three shades of gray)



MX150™ Twist-Lock Sealed Bulkhead Connector (Series 34840)

Specifications

Twist-Lock Sealed Bulkhead Connectors

Reference Information

Packaging:
Housings – Packed in trays
Mates With:
Receptacle Connector Series: 33472
Use With:
Terminals Series 33000, 33011
Designed in: Millimeters

Electrical

Voltage (max.): 14V DC
Current (max.): 22.0A
Contact Resistance (max.): 8 milliohms
Dielectric Withstanding Voltage: 1000V
Isolation Resistance (min.):
100 Megohms min.

Mechanical / Electrical / Sealing

Durability:
8 milliohms max. at 10 cycles
Sealing: (GMW3191) and IP67K

Physical

Housing:
20% Glass Filled SPS/ Nylon, UL 94-HB
TPA: 20% Glass Filled SPS/Nylon
Wire Gauge:
ISO Wire: 0.35 to 2.00 mm²
SAE Wire: 14 to 22 AWG
Operating Temperature: -40 to +105°C

Features and Benefits

Backshells

Single-piece hinge design	Protects the connector from dust, moisture and other contaminants. Easy-to-use and close backshell at harness makers plants. Secure sealing class IP6K7, IP6K9K
Encased wires and connector	Addresses the new OEM trend for engine beautification



MX150™ Backshells (Series 34949, 34951, 34948, 34950)

Specifications

Backshells

Reference Information

Packaging: Bulk Pack
Use With:
Receptacle Connector Series 33471, 33472
Blade Connector Series 33481, 33482



Features and Benefits

Standard and M3 Grip Terminals

High-temperature thermoplastic housing	Withstands Class 3 (-40 to +125°C) operating environments
Two ISO-wire sizes available, 0.35 and 0.50mm ²	Provide optimum sealing performance and contribute less weight in the vehicle
Plating available in silver or tin	Provides high-performance connection options. Tin terminals provide a lower-cost option
Use with existing MX150 female and male connectors and blade connectors	Eliminates the need for additional components

MX150™ Sealed Connector System 3.50mm (.138") Pitch



MX150™ Standard and M3 Grip Terminals (Series 33000, 33001, 33011, 33012)

Specifications

Standard and M3 Grip Terminals

Reference Information

Packaging:

Reel and loose piece (terminals are not packaged with connectors)

Use With:

Receptacles Series

33471, 33472, 33476

Connectors Series

33481, 33482, 34986

Designed in: Millimeters

Electrical

Voltage (max.): 500V

Current (max.): 12.5A

Physical

Contact: Copper (Cu) Alloy

Plating:

Contact Area — Tin (Sn) or Silver (Ag)

Underplating — Nickel

Wire Gauge:

ISO Wire: 0.35 to 2.00mm²

SAE Wire: 14 to 22 AWG

0.35 to 0.50mm² for M3 Grip Terminals

Operating Temperature:

-40 to +125°C — Tin (Sn)

Operating Temperature:

-40 to +155°C — Silver (Ag)



Applications

Automotive and non-automotive

- Commercial vehicles
- Recreational vehicles
- Industrial vehicles and equipment
- Construction equipment
- Marine equipment

Panel-Mount Connectors only

- Headlamp modules
- Hybrid, electric battery cases
- Firewall harnesses
- Tail lamps
- Power control modules
- Bulkhead applications
- Speedometers



Hybrid Electric Battery Case

MX150™ Sealed Connector System
3.50mm (.138") Pitch



Boat



Automotive and Commercial Vehicle Markets

Ordering Information

Standard Receptacle Connectors

Order No.	Rows	Circuit Size	Clip Slot
<u>33471-020</u>	1-by-2	2	Not Available
33471-030*	1-by-3	3	Not Available
33471-040*	1-by-4	4	Not Available
33471-050	1-by-5	5	Not Available
33471-060*	1-by-6	6	Not Available
<u>33472-040*</u>	2-by-2	4	Not Available
33472-060*	2-by-3	6	Not Available
33472-070*	2-by-3	6	Standard
33472-080*	2-by-4	8	Not Available
33472-090*	2-by-4	8	Standard
33472-120*	2-by-6	12	Not Available
33472-130*	2-by-6	12	Standard
33472-160*	2-by-8	16	Not Available
33472-200*	2-by-10	20	Not Available
33476-160*	2-by-8 Hybrid	16	Not Available
33476-1841	2-by-8 Hybrid	16	Standard

* Denotes polarization, housing color and CPA information:

1 = A, Black, no CPA; 2 = B, Light Gray, no CPA; 3 = C, Brown, no CPA; 4 = D, Green, no CPA; 6 = A, Black, CPA; 7 = B, Light Gray, CPA; 8 = C, Brown, CPA; 9 = D, Green, CPA



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Ordering Information

Standard Blade Connectors

Order No.	Rows	Circuit Size	Clip Slot
<u>33481-020*</u>	1-by-2	2	Standard
<u>33481-030*</u>	1-by-3	3	
<u>33481-040*</u>	1-by-4	4	
<u>33481-050*</u>	1-by-5	5	
<u>33481-060*</u>	1-by-6	6	
<u>33482-040*</u>	2-by-2	4	
<u>33482-060*</u>	2-by-3	6	
<u>33482-080*</u>	2-by-4	8	
<u>33482-120*</u>	2-by-6	12	
<u>33482-160*</u>	2-by-8	16	
<u>33482-200*</u>	2-by-10	20	
<u>34986-160*</u>	2-by-8 Hybrid	16	

* Denotes polarization and housing color: 1 = A, Black; 2 = B, Light Gray; 3 = C, Brown; 4 = D, Green

Sealed Headers

Order No.	Terminal Interface	Configuration	Circuit Size	Polarization	Color	Mating Connector Order No. without CPA	Mating Connector Order No. with CPA
<u>34830-0801</u>	Solder Tail	2-by-4	8	A	Black	<u>33472-0801</u>	33472-0806
<u>34830-0802</u>				B	Gray	33472-0802	33472-0807
<u>34830-0803</u>				C	Dark Gray	33472-0879	33472-0881
<u>34830-0804</u>				D	Stone Gray	33472-0880	33472-0882
<u>34829-0801</u>	Compliant Pin			A	Black	33472-0801	33472-0806
<u>34829-0802</u>				B	Gray	33472-0802	33472-0807
<u>34829-0803</u>				C	Dark Gray	33472-0879	33472-0881
<u>34829-0804</u>				D	Stone Gray	33472-0880	33472-0882
<u>34830-2001</u>	Solder Tail	2-by-10	20	A	Black	33472-2001	33472-2006
<u>34830-2002</u>				B	Gray	33472-2002	33472-2007
<u>34830-2003</u>				C	Dark Gray	33472-2060	33472-2062
<u>34830-2004</u>				D	Stone Gray	33472-2061	33472-2063
<u>34829-2001</u>	Compliant Pin			A	Black	33472-2001	33472-2006
<u>34829-2002</u>				B	Gray	33472-2002	33472-2007
<u>34829-2003</u>				C	Dark Gray	33472-2060	33472-2062
<u>34829-2004</u>				D	Stone Gray	33472-2061	33472-2063

Panel-Mount Connectors

Order No.	Rows	Circuit Size	Polarization	Color
<u>47725-2010</u>	2-by-6	12	A	Black
<u>47725-2020</u>			B	Gray
<u>47725-2030</u>			C	Dark Gray
<u>47725-2040</u>			D	Stone Gray



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Ordering Information

Twist-Lock Sealed Bulkhead Connectors

Order No.	Configuration	Circuit Size	Polarization	Color	Mating Receptacle Connector Order No. without CPA	Mating Receptacle Connector Order No. with CPA
34840-3010	2-by-3	6	A	Black	33472-0601	33472-0606
34840-3020			B	Light Gray	33472-0602	33472-0607
34840-3030			C	Dark Gray	33472-0668	33472-0670
34840-3040			D	Stone Gray	33472-0669	33472-0671
34840-4010	2-by-4	8	A	Black	33472-0801	33472-0806
34840-4020			B	Light Gray	33472-0802	33472-0807
34840-4030			C	Dark Gray	33472-0879	33472-0881
34840-4040			D	Stone Gray	33472-0880	33472-0882
34840-6010	2-by-6	12	A	Black	33472-1201	33472-1206
34840-6020			B	Light Gray	33472-1202	33472-1207
34840-6030			C	Dark Gray	33472-1253	33472-1259
34840-6040			D	Stone Gray	33472-1254	33472-1260
34840-8010	2-by-8	16	A	Black	33472-1601	33472-1606
34840-8020			B	Light Gray	33472-1602	33472-1607
34840-8030			C	Dark Gray	33472-1767	33472-1769
34840-8040			D	Stone Gray	33472-1768	33472-1770

Backshells

Order No. With Ribs	Order No. Without Ribs	Component	Configuration	Use with Connector Order No.
34949-0210	34949-0220	Receptacle Connector	1-by-2	33471-0206
34951-0610	34951-0620		2-by-3	33472-0606
34951-1210	34951-1220		2-by-6	33472-1206
34948-0210	34948-0220	Blade Connector	1-by-2	33481-0201
34950-0610	34950-0620		2-by-3	33482-0601
34950-1210	34950-1220		2-by-6	33482-1201

Standard and M3 Grip Receptacle Terminals

Order No.		Plating	Grip Code	Wire Application	
Right Payout, B Wound	Left Payout, D Wound			SAE (AWG)	ISO (mm ²)
33012-2001	33012-3001	Tin	14	14 to 16	2.00 to 1.50
33012-2002	33012-3002		18	18 to 20	1.00 to 0.75
33012-2003	33012-3003		22	22	0.35 to 0.50
33012-2004	33012-3004		M3	Not Applicable	
33001-4001	33001-5001	Silver	14	14 to 16	2.00 to 1.50
33001-4002	33001-5002		18	18 to 20	1.00 to 0.75
33001-4003	33001-5003		22	22	0.35 to 0.50
33001-4005	33001-5005		M3	Not Applicable	
33001-2003	33001-3003	Gold	14	14 to 16	2.00 to 1.50
33001-2004	33001-3004		18	18 to 20	1.00 to 0.75
33001-2005	33001-3005		22	22	0.35 to 0.50
33001-2006	33001-3006		M3	Not Applicable	

B wound parts are maintained in sample plant only.



**MX150™ Sealed
Connector System
3.50mm (.138")
Pitch**

Ordering Information

Standard and M3 Grip Blade Terminals

Order No.		Plating	Grip Code	Wire Application	
Right Payout, B Wound	Left Payout, D Wound			SAE (AWG)	ISO (mm ²)
33000-0001	33000-1001	Tin	14	14 to 16	2.00 to 1.50
33000-0002	33000-1002		18	18 to 20	1.00 to 0.75
33000-0003	33000-1003		22	22	0.35 to 0.50
33000-0004	33000-1004		M3	Not Applicable	
33011-2001	33011-3001	Silver	14	14 to 16	2.00 to 1.50
33011-2002	33011-3002		18	18 to 20	1.00 to 0.75
33011-2003	33011-3003		22	22	0.35 to 0.50
33011-2004	33011-3004		M3	Not Applicable	
33011-1002	33011-0002	Gold	14	14 to 16	2.00 to 1.50
33011-1004	33011-0004		18	18 to 20	1.00 to 0.75
33011-1006	33011-0006		22	22	0.35 to 0.50
33011-0007	33011-1007		M3	Not Applicable	

B wound parts are maintained in sample plant only.

Cavity Plug - for unused cavity

Order No.	Plating
34345-0001	Male / Female (interchangeable)