MX150 Hybrid Sealed Connector System offers multiple circuit sizes with a mix of 1.50, 2.80 and 6.30mm terminals for a range of automotive and commercial vehicle applications.

**Features and Advantages: Hybrid Connector**

- **New** 10-way hybrid receptacles
- **Previously Released**
  - 12- and 16-way hybrid receptacle and blade connectors
  - 8-way hybrid receptacles
  - 9-way receptacles
  - 8-, 9- and 10-way blade connectors
- Offers versatility to meet a range of applications

- **Flashover options (i.e., custom void patterns) available**
  - Provides design flexibility

- **Mat seal technology for M150 (1.50mm) Terminals**
  - Eliminates the need for individual cable seals which provides reduced package size and reduced cost

- **Grommet Cap**
  - Protects the mat seal & assures proper alignment of the terminals.

- **Pre-assembled terminal position assurance (TPA) housing**
  - Ensures crimped terminal leads are properly locked into connector

- **Connector position assurance (CPA) option available**
  - Assures connectors have been fully mated and prevents accidental disconnection

- **Meets GMW3191 & USCAR-2 specifications**
  - Ensures reliable performance. Mates with USCAR interfaces

- **4 key options available**
  - Facilitates quick visual installation

- **Hybrid 12-Way Connector System, Blade and Receptacle: Ten 1.50mm Circuits and Two 2.80mm**
  - Only MX150 HYB using Mat Seal on 2.80mm terminals.

- **8-, 9- and 10-Way Receptacles**
  - (8-way and 10-way currently available; 9-way coming soon)
**Markets and Applications**

Automotive and Commercial Vehicle
- Transmissions
- Head/tail lamps
- Body harnesses
- Wipers, washers, defoggers
- Speedometers
- A/C modules
- Turn signals
- Airbag harnesses
- Speakers
- Door connectors
- Brake modules
- Horns

**Specifications**

**REFERENCE INFORMATION**

- **Packaging:**
  - Housings – Bulk Pack
- **Mates With:**
  - Receptacle Connectors, Series 160111
  - Blade Connectors, Series 160112
- **Use With:**
  - MX150 Receptacle Terminals, Series 33012, 33001
  - MX150 Blade Terminals, Series 33000, 33011
  - Sumitomo Receptacle Terminal Part Numbers, 8240-0423, 8240-0424
  - Sumitomo Blade Terminal PN’s, 8230-5257, 8230-5258
- **Designed in:** Millimeters

**ELECTRICAL**

- **Voltage (max.):** 500V DC
- **Current (max.):** 22.0A (For MX150 Terminals)
- **Contact Resistance:** 8 milliohms max.
- **Dielectric Withstanding Voltage:** 1000V AC min.
- **Isolation Resistance:** 100 Megohms min.

**MECHANICAL/ELECTRICAL/SEALING**

- **Durability:** 8 milliohms max. at 10 cycles
- **Sealing:** USCAR-2 Sealing Class 2, IP67K

**PHYSICAL**

- **Housing:** Nylon 40% Glass Filled
- **TPA:** Nylon 40% Glass Filled
- **Wire Gauge:**
  - MX150 Terminals ISO Wire: 0.35 to 1.50mm², SAE
  - Wire: 22 to 14 AWG
- **Sumitomo 2.80mm Terminals:** 1.00 to 2.50mm²
- **Insulation Diameter:** 2.69 to 1.20mm (.106 to .047”)
- **Operating Temperature:** -40 to +125°C
Specifications

10W HYBRID RECEPTACLE CONNECTORS (SERIES 160076)

REFERENCE INFORMATION
Packaging:
Housings – Bulk Pack
Use With:
MX150 Receptacle Terminals, Series 33012, 33001
Apex 2.80mm Receptacle Terminal PN: 33351008, 33351002
Designed in: Millimeters

ELECTRICAL
Voltage (max.): 500V DC
Current (max.): 22.0A (For MX150 Terminals)
Contact Resistance: 8 milliohms max.
Dielectric Withstanding Voltage: 1000V AC min.
Isolation Resistance: 100 Megohms min.

MECHANICAL/ELECTRICAL/SEALING
Durability: 8 milliohms max. at 10 cycles
Sealing: USCAR-2 Sealing Class 2, IP67K

PHYSICAL
Housing: Nylon 40% Glass Filled
TPA: Nylon 40% Glass Filled
Wire Gauge:
MX150 Terminals ISO Wire: 0.35 to 1.50mm², SAE
Wire: 22 to 14 AWG
Unsealed FCI Apex 2.8mm Terminals: 1.00 to 3.00mm²
Operating Temperature: -40 to +125°C

8W HYBRID RECEPTACLE CONNECTORS (SERIES 160078)

REFERENCE INFORMATION
Packaging:
Housings – Bulk Pack
Use With:
MX150 Receptacle Terminals, Series 33012, 33001
Apex 6.3mm Receptacle Terminal PN: 33140138
Designed in: Millimeters

ELECTRICAL
Voltage (max.): 500V DC
Current (max.): 22.0A (For MX150 Terminals)
Contact Resistance: 8 milliohms max.
Dielectric Withstanding Voltage: 1000V AC min.
Isolation Resistance: 100 Megohms min.

MECHANICAL/ELECTRICAL/SEALING
Durability: 8 milliohms max. at 10 cycles
Sealing: USCAR-2 Sealing Class 2, IP67K

PHYSICAL
Housing: Nylon 40% Glass Filled
TPA: Nylon 40% Glass Filled
Wire Gauge:
MX150 Terminals ISO Wire: 0.35 to 1.50mm², SAE
Wire: 22 to 14 AWG
Unsealed FCI Apex 6.30mm Terminals: 6.00mm²
Operating Temperature: -40 to +125°C

www.molex.com/link/mx150.html

Molex is a registered trademark of Molex, LLC in the United States of America and may be registered in other countries; all other trademarks listed herein belong to their respective owners.