

# MX-DaSH Modular Wire-to-Wire Connectors >

The MX-DaSH Modular Wire-to-Wire Connector System combines the MX-DaSH data-signal hybrid automotive interconnect system with a modular design that utilizes four versatile cartridges incorporated into a single housing. This design helps simplify wiring and harness architecture while improving flexibility, adaptability and scalability across multiple vehicle models and applications.

## ADVANTAGES AND FEATURES

### Enhances flexibility, adaptability and scalability

Modular cartridges enable various options for terminal mixes and groupings for easier adaptation to evolving requirements. This minimizes design time and component inventory requirements across multiple models.

### Mitigates supply chain risks

Localized manufacturing and compatibility with industry-standard terminals improve traceability and limit global supply chain challenges.

### Ensures exceptional reliability

Positive-locking features, blade stabilization and a vibration-resistant design help reduce failures and inadvertent disconnections in demanding automotive environments.

Power/Signal Terminals	0.50, 1.20, 2.80, 4.80, 6.30mm
Validation	USCAR2-Rev7
Modular Cartridge Layout	2 by 2
Circuit Counts	46 to 70 circuits, depending on configuration
Voltage	Up to 14V DC
Operating Temperatures	-40 to +100°C (T2)

### Shortens development timelines

Faster prototyping and quicker design processes enable quicker changeovers to new configurations.

### Optimizes harness weight and material costs

Consolidating multiple 0.50, 1.20, 2.80, 4.80 and 6.30mm terminals into a single housing helps reduce complexity in harness design.

### Maximizes manufacturing efficiency

Combining connections into a consolidated housing that supports automated assembly processes helps reduce assembly time.

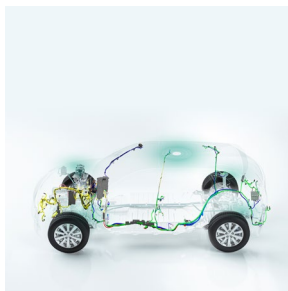


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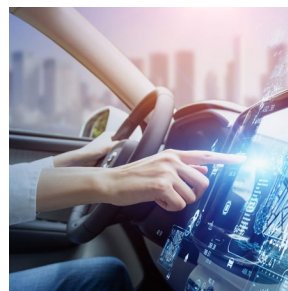
## MARKETS AND APPLICATIONS

### Automotive

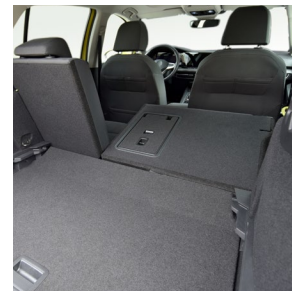
Electrical/electronic architecture components  
Zonal harnesses  
Instrument panel-to-body harness connections  
Seat power and signal connections



*Electrical/ Electronic  
Architecture Components*



*Instrument Panel-to-Body  
Harness Connections*



*Seat Power and  
Signal Connections*

## SPECIFICATIONS

### Reference Information

#### Packaging:

Blade connector—partitioned carton  
Receptacle—tray  
Modular connector—bulk pack

Designed in: Millimeters

Cartridge Layout: 2 by 2

Circuit Counts: 46/47/48, 56/58 or 68/70 circuits,  
depending on configuration

#### Power/Signal Cartridge Types:

CTX50—26 circuits, 0.19mm<sup>2</sup> copper-clad steel  
wire or 0.22 to 0.35mm<sup>2</sup> copper wire, 1.05  
to 1.40mm dia. insulation  
1.20mm—14 circuits, 0.25 to 1.50mm<sup>2</sup> wire, 0.52  
to 2.40mm dia. insulation  
2.80mm—4 circuits, 0.50 to 4.00mm<sup>2</sup> wire, 1.20  
to 3.70mm dia. insulation  
4.80, 6.30mm—3 circuits, 0.50 to 6.00mm<sup>2</sup> wire,  
1.40 to 4.30mm dia. insulation

Validation: USCAR2-Rev7

Sealing Classification: S1 (unsealed)

Vibration Classification: V1 (chassis profile)

RoHS: Yes

### Electrical

Voltage (max.): 14V DC

Current (max.): Refer to product specifications

Isolation Resistance Between Terminals (min.):  
100 Megohms

### Mechanical

Mating Force (max.): 75N

Unmating Force (max.): 75N

### Physical

Contact: Tin

Vibration Environment: V1

Operating Temperatures: -40 to +100°C

Non-Operating Temperatures: -40 to +85°C