

# CMX Sealed Connectors

## 55- and 65-Circuit 2.50mm, 3.70mm Pitch

**molex**

**High-density CMX Sealed Connectors are designed to meet the low- and medium-current requirements of space-constrained electronic control units and other wire-to-board transportation applications**

### Features and Benefits

5-row connector design with fine pitch of 2.50 and 3.70mm

Requires reduced space on customer printed circuit boards (PCBs) or engine compartments

Hybrid connection system uses 2 different, high-conductivity, copper-alloy terminal sizes: CTX 064 (0.64mm) and CTX 150 (1.50mm)

Supports low and medium current applications from 2.5A up to 6.0A. Copper alloy allows excellent stress relaxation and current-carrying properties

CTX 064 and CTX 150 terminals are one-piece, clean-body type

Lower cost than two-piece CP terminals

Connectors feature matte-seal (also known as grommet seal) technology for CTX 064 and CTX 150 terminals

Ultimate sealing protection for terminals; connectors can perform in sealed applications where IPx9K rating and 500mbar water-tightness are required

Actuating the connector lever engages the interfacial-seal protector. Sophisticated design of the interfacial-seal protector surrounds the CMX connector whilst also protecting the interfacial (also known as perimeter) seal

Ensures that connector remains fully sealed before mating and during mating and unmating operations; meets quality demands from harness makers

CMX system offers several colour codings and mechanical polarization. High-density, space-saving system

Reduces cycle-time during harness assembly due to easy visual installation. Avoids mis-mating of the headers and connectors



CMX 55-Circuit



CMX 65-Circuit

### Applications

#### Wire-to-board applications:

##### Powertrain

- Electronic Control Unit (ECU)
- Gear box
- Suspension controller
- Electronic parking brake

##### Body Electronics

- Junction/fuse box
- Lighting control system
- Electric doors

#### Automotive and Commercial Vehicles:

- Cars
- Motorcycles
- 3-wheelers
- 4-wheelers, Golf carts
- Light Goods Vehicles
- Boats, Jet Skis



Motorcycle



4-wheelers



Automotive

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### Specifications

#### REFERENCE INFORMATION

Packaging: Carton box  
 Mates With: Please contact Product Manager; currently no mating standard CMX header available  
 Use With:  
 Terminals:  
 Series 34803 CTX 064  
 Series 34805 CTX 150  
 Blind plugs:  
 For CTX 064 cavity: 64325-1010  
 For CTX 150 cavity: 64325-1023  
 (Use blind plugs only if rear seal-cover is not molded with breakable dummy-plugs)  
 Wire Caps:  
 55-Circuit: 502730-5501  
 65-Circuit: 502730-6501  
 Designed In: mm  
 RoHS: Yes  
 Halogen Free: Yes

#### PHYSICAL

Housing: PBT GF 20%  
 Operating Temperature: -40 to +120°C  
 Connector loading:  
 65-Circuit CMX Connector:  
 0.64mm cavity × 55  
 1.50mm cavity × 10  
 55-Circuit CMX Connector:  
 0.64mm cavity × 35  
 1.50mm cavity × 20

#### MECHANICAL

Contact Retention to Housing:  
 CTX 064 terminal: 60N  
 CTX 150 terminal: 98N  
 Mating Force: 60N max.  
 Unmating Force: 60N max.  
 Durability (max.): 20 cycles

#### ELECTRICAL

Current (max.):  
 CTX 064 terminal: 2.0A (0.85mm<sup>2</sup> wire)  
 CTX 150 terminal: 7.5A (0.85mm<sup>2</sup> wire)  
 Contact Resistance: (100mA 50mV)  
 CTX 064 terminal : 30m ohms max..  
 CTX 150 terminal : 10m ohms max.  
 Dielectric Withstanding Voltage:  
 1000V AC for 1 minute  
 Insulation Resistance: 100 Megohms min.

### Ordering Information

#### Connector

Order No.	No. of Circuits	Colour Coding	Wire Output	Wire Cap
34885-5511	55	Black	Right	502730-5501
34885-5512			Left	502730-5501
34885-5521		Brown	Right	502730-5501
34885-5522			Left	502730-5501
34885-6511	65	Black	Right	502730-5501
34885-6512			Left	502730-5501
34885-6521		Brown	Right	502730-5501
34885-6522			Left	502730-5501

#### CTX Terminals

Order No.	Terminal Type	Plating	Wire Size in mm <sup>2</sup>	Blind Plugs	
34803-3211	CTX 064	Tin	0.22 - 0.35	64325-1010	
34803-3212			0.50 - 0.85	64325-1010	
D-Wind (Left Payoff)	B-Wind (Right Payoff)	Terminal Type	Plating	Wire Size in mm <sup>2</sup>	Blind Plugs
34805-0111	34805-0211	CX150	Tin	0.30 - 0.50	64325-1023
34805-0112	34805-0212			0.75 - 1.25	64325-1023
34805-0113	34805-0213			1.25 - 2.00	64325-1023

[www.molex.com/link/cm.html](http://www.molex.com/link/cm.html)

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