



## UNSEALED 36 & 48 POSITION MONOBLOCK CONNECTORS

FOR INDUSTRIAL AND COMMERCIAL TRANSPORTATION

TE Connectivity's Unsealed Interconnection System for Industrial & Commercial Transportation is the ideal solution for customers in search of unsealed, rugged and flexible connectors - specifically designed for inside-cabin, bulkhead and control-unit applications of on- and off-road vehicles.

Expanding the interconnection family, the Unsealed 36 and 48 Position Monoblock Connectors feature a robust, compact and high-density design - with an improvement of the well-established lever system reducing the mating force and improving the assembly process. The connectors also offer integrated secondary locking features to enhance contact alignment, as well as adopt the popular AMP MCP 1.5K and MCON 1.2 contact systems. The all-in-one mono housing composition improves strength and the overall application experience, while the four color-codes help to reduce mismatching. All 36 and 48 position connectors also fit inside existing bulkhead cut-outs to eliminate the demand for further design changes - and complete the unsealed portfolio.

### Benefits

#### FLEXIBLE

- Expand the unsealed family, with a range of 1 - 48 position connectors now available
- Fit into existing bulkhead cut-outs to eliminate demand for design changes

#### DEPENDABLE

- Increase durability with high density single pocket configuration
- Ensure high reliability for long-term use with vibration resistance for cabin

#### EASY TO ASSEMBLE

- Reduce mating force with an improvement of the well-established lever system
- Improve contact alignment with integrated secondary locking features
- Help prevent mismatch with up to 4-polarization and color key mating configurations

### Key Industries

The Unsealed Interconnection System can be utilized in trucks and buses, as well as construction, agriculture, and two-, three- and four-wheel ATV/UTV vehicles.



Truck



Agriculture



Bus



Construction



ATV/UTV

### Applications

The Unsealed Interconnection System operates in wire-to-wire, wire-to-board, control unit, bulkhead, in-cabin, and fuse and relay box applications.



Wire-to-Wire



Wire-to-Board



Control Unit



Bulkhead



In-Cabin



Fuse and Relay Boxes

## Technical Information

### UNSEALED AMP MCP 1.5K 36 POSITION MONOBLOCK CONNECTOR

Contact System:	AMP MCP 1.5K
Housing Material:	PBT GF20
Wire Size Range:	0.5 mm <sup>2</sup> - 1.5 mm <sup>2</sup>
Temperature:	-40°C to +105°C
Protection:	IP 30
Flammability:	UL 94 HB
Current Rating:	20A@23°C

### UNSEALED MCON 1.2 48 POSITION MONOBLOCK CONNECTOR

Contact System:	MCON 1.2
Housing Material:	PBT GF20
Wire Size Range:	0.5 mm <sup>2</sup> - 1.5 mm <sup>2</sup>
Temperature:	-40°C to +105°C
Protection:	IP 30
Flammability:	UL 94 HB
Current Rating:	17A@23°C

## Design Features

**Lever Mechanical Assist**  
With an improvement of the well-established lever system

**Integrated Secondary Lock**  
For easy use

**Design Changed from Carrier + Insert Type to Mono Housing Type**  
For improved HSG strength and application experience

**Tab Connector Ergonomically Improved**  
To reduce the risk of unlocking by mistake

**Higher Density**  
With single pocket configuration extending to 48 position

**Wire-to-Board Connection**  
With both 180° and 90° wire-to-board connections available

## Ordering Information

### Unsealed AMP MCP 1.5K 36 Position Monoblock Connector

No. of Positions	Keying Options	Housing Color	Part Number		
			Plug Housing	Mating Tab Housing	Mating Tab 90° Housing
36	A	Brown	2377780-1	2377783-1	1-2236715-1
	B	Purple	2377780-2	2377783-2	1-2236715-2
	C	Green	2377780-3	2377783-3	-
	D	Blue	2377780-4	2377783-4	-

### Unsealed MCON 1.2 48 Position Monoblock Connector

No. of Positions	Keying Options	Housing Color	Part Number	
			Plug Housing	Mating Tab Housing
48	A	Black	2366036-1	2366066-1
	B	Grey	2366036-2	2366066-2
	C	Green	2366036-3	2366066-3
	D	Blue	2366036-4	2366066-4

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