



# PRODUCT SPECIFICATION

## 1.0 SCOPE

This Product Specification covers the transit requirements of Terminal Position Assurance (TPA) devices used in the automotive industry.

## 2.0 PRODUCT DESCRIPTION

### 2.1 TPA DEFINITION

The TPA is a device that detects the presence of a partially installed terminal and supports the primary locking feature when fully seated.

### 2.2 PRELOCK POSITION

The TPA is pre-assembled to the connector housing in a position that allows the terminal to be installed into the connector assembly.

### 2.3 FINAL POSITION

The TPA is seated from the pre-lock position into the connector housing where it is locked into place.

### 2.4 PRODUCT NAME AND SERIES NUMBER (S)

MX150 SINGLE ROW	33471, 33481, 31280
MX150 DUAL ROW	33472, 33482
MX150 GEN 2 DUAL ROW	160008, 160011
MX150 HYBRID	33476, 33486, 34985, 34986
MX150 1X4 Z02	34770
MX120 SINGLE ROW	34511
MX64 SEALED	31402, 31403, 31404, 34975, 34977
MX150 SINGLE ROW CABLE SEAL	34752
MX150 BULKHEAD CONNECTOR	34840
USCAR RECEPTACLE	31408, 31409, 31410
GLOBAL FUEL INJECTOR	34062
3 WAY RECEPTACLE	34250
3 WAY BLADE	34091
H-DAC 64 DUAL ROW	30700, 30968, 31389
H-DAC 64 SINGLE ROW	31067, 31068, 31072, 31073, 31100
38 WAY ABS	31187, 31380, 31381
12 WAY HYBRID	31034
6 WAY HYBRID	31066
NGPCM	30528
6.3MM SYSTEMS	30897
EPAS	33967
11 WAY AIRBAG	33985, 33990
2 WAY MALE CABLE SEAL	34675
10 WAY HYBRID	31372
B479 PDB 50 WAY	160044

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DOCUMENT NUMBER: <b>PS-34646-001</b>	CREATED / REVISED BY: <b>Fiona Chen</b>	CHECKED BY: <b>Jun Deng</b>	APPROVED BY: <b>Vijy Koshy</b>



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## 3.0 APPLICABLE DOCUMENTS AND SPECIFICATIONS

Reference USCAR-2 (miscellaneous component engage/disengage – method 5.4.5.4) for the applicable TPA functionality for pre-lock seating to final position. Products that do not meet the performance range of  $15N < X < 60 N$  are not covered by this specification.

## 4.0 PACKAGING

TPAs may become seated during transit. Occurrence rates of this condition will be evaluated using individual boxes versus palletized shipments. Packaging includes bulk, layer and partition styles.

## 5.0 SERVICING

TPAs that become seated will need to be pulled back from the final seat position to the pre-lock position as shipped. For servicing guidelines to restore the TPA to the correct position please refer to the connector user's manual. The manuals can be found at [www.molex.com](http://www.molex.com) by referencing part number or product name.

## 6.0 DAMAGE

Damage to the connector assembly occurred during shipment is not covered by this specification.


## 7.0 DISCLAIMER

The receiving company assumes responsibility for servicing the TPA.

  
Molex Incorporated

  
Ford Motor Company

Molex Incorporated and PSA PEUGEOT CITROEN Company representatives have endorsed this specification

  
Molex Incorporated

  
PSA PEUGEOT CITROEN

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