

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: [0334861603](#)
Status: **Active**
Overview: [mx150_sealed_connector_system](#)
Description: 3.50mm (.138") Pitch MX150™ Hybrid Sealed Male Connector, Dual Row, 16 Circuits, Polarization C, without Connector Position Assurance, Brown

Documents:

3D Model	Product Specification PS-33476-000 (PDF)
Application Specification (PDF)	RoHS Certificate of Compliance (PDF)
Drawing (PDF)	

General

Product Family	Crimp Housings
Series	33486
Comments	No Connector Position Assurance (CPA), Hybrid
More Detailed Tech Information	http://ewcap.uscarteams.org
Overview	mx150_sealed_connector_system
Product Name	MX150™

Physical

Circuits (maximum)	16
Circuits Detail	16
Color - Resin	Black, Brown, Natural
Gender	Male
Glow-Wire Compliant	No
Keying to Mating Part	Yes
Lock to Mating Part	Yes
Material - Resin	Modified Polystyrene Alloy
Number of Rows	2
Packaging Type	Bag
Panel Mount	No
Pitch - Mating Interface (in)	0.138 In
Pitch - Mating Interface (mm)	3.50 mm
Polarized to Mating Part	Yes
Stackable	No
Temperature Range - Operating	-40°C to +125°C

Electrical

Current - Maximum per Contact	22A
-------------------------------	-----

Material Info

Reference - Drawing Numbers

Application Specification	AS-33472-100
Packaging Specification	PK-31300-514
Product Specification	PS-33476-000
Sales Drawing	SD-33486-161



Series

image - Reference only

EU RoHS

**ELV and RoHS
Compliant**

REACH SVHC

**Contains SVHC: No
Halogen-Free
Status**

**Need more information on product
environmental compliance?**

Email productcompliance@molex.com
For a multiple part number RoHS Certificate of
Compliance, [click here](#)

Please visit the [Contact Us](#) section for any
non-product compliance questions.

China RoHS



Search Parts in this Series

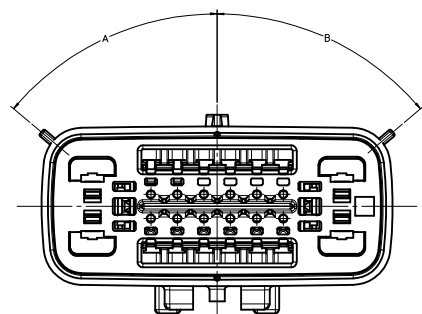
[33486Series](#)

Mates With

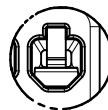
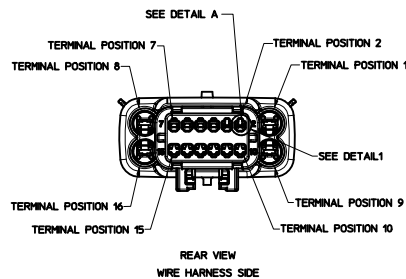
[33476](#) Female Dual Row Hybrid Sealed
Connector

Use With

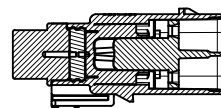
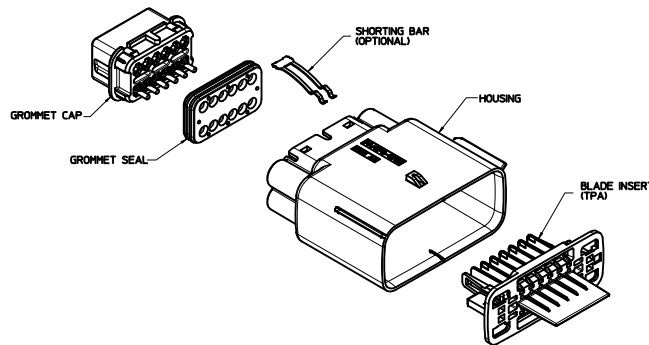
[33000](#) MX150™ Tin (Sn) Male Terminal,
[33011](#) Gold (Au) Male Terminal



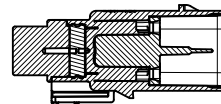
KEYING OPTION
SEE TABLE
SCALE 4:1



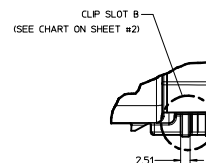
DETAIL 1
SCALE 10:1
USE ONLY BLADE TERMINAL P/N 31296-0008
FOR ALL SHORTING BAR APPLICATIONS
INSERT SHORTING BAR BLADE TERMINALS INTO
GROMMET CAP OPENINGS AS SHOWN ABOVE



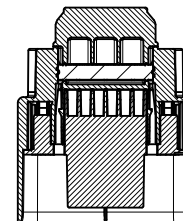
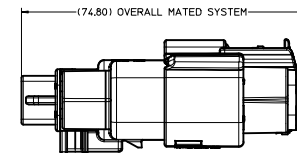
SECTION B-B
INSERT SHOWN IN PRE-LOCK POSITION
SEE NOTE 2



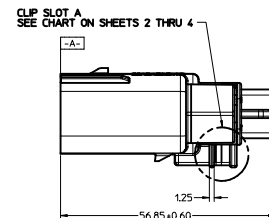
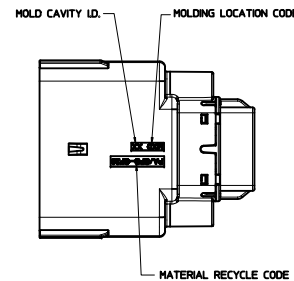
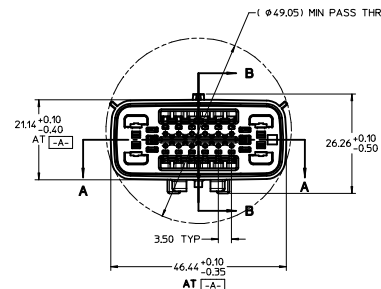
SECTION B-B
INSERT SHOWN IN FINAL LOCK POSITION
SEE NOTE 2



CLIP SLOT B
(SEE CHART ON SHEET #2)
2.51
APPLIES TO 33486-1721 THRU 1729,
33486-1761, 33486-1764, AND 33486-1765 ONLY
SCALE 2:1



SECTION A-A



NOTES: UNLESS OTHERWISE STATED

- DESIGNED TO MATE WITH RECEPTACLE HOUSING ASSEMBLY SPECIFIED IN DRAWING SD-33476-161.
- ASSEMBLY SHIPPED WITH BLADE INSERT IN PRE-LOCKED POSITION (SEE SECTION B-B PRE-LOCK). UPON FULL TERMINAL ASSEMBLY, EACH BLADE INSERT MUST BE SNAPPED INTO ITS FINAL-LOCK POSITION. FORCE TO MOVE TPA FROM FINAL LOCK TO PRE-LOCK POSITION: 75 N MAX.
- FOR 15mm BLADE TERMINALS TO BE USED WITH THIS ASSEMBLY SEE MOLEX DRAWING SD-33000-001. FOR 2.8mm RECEPTACLE TERMINALS SEE TABLE.
- SYSTEM TO BE USED WITH WIRE WITHIN RANGE OF 1.5mm TO 2.5mm.
- MATERIAL: SPS/NYLON BLEND, 20% GLASS FILLED.
- FOR ASSEMBLIES W/SHORTING BARS, ASSEMBLE SHORTING BARS PER SPECIFICATION E-33546-001.
- SHORTING BAR TERMINAL CRIMP ANGLE MUST BE BETWEEN -14 DEG. AND +3.5 DEG. AFTER INSTALLATION INTO THE CONNECTOR ASSEMBLY. REFER TO MOLEX DRAWING SD-31296-001 FOR DETAILS.
- SHALL CONFORM TO PACKAGING SPECIFICATION PK-31300-514.
- SHALL CONFORM TO PRODUCT SPECIFICATION PS-33476-000.
- ASSEMBLY CONFORMS TO SAE/J1939-2 REV. 4 WITH THE FOLLOWING EXCEPTIONS:
14 AWG TERMINAL INSERTION FORCES SHALL NOT EXCEED 42 NEWTONS.

TYO0 2.8mm CABLE SEAL TERMINAL		
FORD PIN	MALE	GRIP
BLADE		SIZE
SP2T-14421-GA	12	
IFT-14421-JA	14	
IFT-14421-HA	16	
IFT-14421-GA	18	
IFT-14421-FA	20	
IFT-14421-EA	22	



SCALE 1:1

ENTER DESCRIPTION EC NO. UAU200-001 DRAWN BY THIS 2010/04/06 CHECKED BY THIS 2010/04/06 APPROVED BY THIS 2010/04/06		QUALITY SYMBOLS		GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE		DESIGN UNITS		THIRD ANGLE PROJECTION	
				mm		MM ONLY		2:1		METRIC			
				4 PLACES ± 0.10		DRAWN BY JMWESLEY 06-16-02		DATE		15MM/2.8MM HYBRID			
				3 PLACES ± 0.20		CHECKED BY DGR1FFITHS 07-09-02		DATE		CONNECTOR, BLADE 2 ROW			
				2 PLACES ± 0.30		APPROVED BY VKOSHY 2010/04/06		DATE		HOUSING, SEALED, 16 WAY			
				1 PLACE ± 0.50		MATERIAL NO. SD-33486-161		DOCUMENT NO.		MOLEX INCORPORATED			
				ANGULAR $\pm 3^\circ$		SEE CHART		DATE		1 OF 4			
				DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS									

ENTER DESCRIPTION REC NO: 04/20/2010-1801 DRAWN/ISSUED BY: 2010/06/14 CHECKED BY: 2010/06/14 APPROVED BY: 2010/06/14 BUT	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED) <table><thead><tr><th></th><th>mm</th><th>INCH</th></tr></thead><tbody><tr><td>4 PLACES ±</td><td>± .125</td><td>± .005</td></tr><tr><td>2 PLACES ±</td><td>± .030</td><td>± .001</td></tr><tr><td>1 PLACE ±</td><td>± .013</td><td>± .0005</td></tr></tbody></table> ANGULAR ± 3 °		mm	INCH	4 PLACES ±	± .125	± .005	2 PLACES ±	± .030	± .001	1 PLACE ±	± .013	± .0005	DIMENSION STYLE MM ONLY DRAWN BY: JWC/SLY DATE: 06-16-02 CHECKED BY: DGR/FFI DATE: 07-09-02 APPROVED BY: WKOSH DATE: 2010/04/06 MATERIAL: NO	SCALE 2:1 DESIGN TYPES METRIC THIRD ANGLE PROJECTION TITLE 15MM/2.8MM HYBRID CONNECTOR, BLADE 2 ROW HOUSING, SEALED, 16 WAY MOLEX INCORPORATED DOCUMENT NO: SD-33486-161	SHEET NO: 3 OF 3
		mm	INCH														
	4 PLACES ±	± .125	± .005														
	2 PLACES ±	± .030	± .001														
1 PLACE ±	± .013	± .0005															
SEE CHART																	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS																	
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION																	

ENTER DESCRIPTION REC NO. 04/2019-0001 CHKNGDGRFFTHS 2010-09-01 APPROV 2010-06-04		QUALITY SYMBOLS = 0 = 0 = 0 = 0		GENERAL TOLERANCES (UNLESS SPECIFIED) mm INCH 4 PLACES $\pm .005$ $\pm .0005$ 3 PLACES $\pm .005$ $\pm .0005$ 2 PLACES ± 0.10 $\pm .005$ 1 PLACE ± 0.3 $\pm .005$ ANGULAR $\pm 3^\circ$		DIMENSION STYLE MM ONLY DRAWN BY JKS-101 CHECKED BY JKS-101 DGRFFTHS APPROVED BY VKOUSHY DATE 06-16-02 DATE 07-09-02 DATE 2010/04/06		SCALE 1:1 DESIGN TYPES METRIC THIRD ANGLE PROJECTION 15MM/2.8MM HYBRID CONNECTOR, BLADE 2 ROW HOUSING, SEALED, 16 WAY MOLEX INCORPORATED		SHEET NO. 1 SD-33486-161	
BUI		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE CHART SIZE 1 THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION							