

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0340832002

Status:

Active

Overview:

[mx150_sealed_connector_system](#)

Description:

MX150™ Female Cable Seal Terminal, Tin (Sn) Plating, 18-20 AWG, Right Reel Payoff, Contact Material Thickness 0.30mm (.012")

Documents:

[Drawing \(PDF\)](#)

[RoHS Certificate of Compliance \(PDF\)](#)

General

Product Family

Crimp Terminals

Series

34083

Comments

Right Reel Payoff|Cable Seal

Crimp Quality Equipment

Yes

MolexKits

Yes

Overview

[mx150_sealed_connector_system](#)

Product Name

MX150™

Physical

Gender

Female

Material - Metal

High Performance Alloy (HPA)

Material - Plating Mating

Tin

Material - Plating Termination

Tin

Packaging Type

Reel

Plating min: Mating (µin)

20.00

Plating min: Mating (µm)

0.500

Plating min: Termination (µin)

20.00

Plating min: Termination (µm)

0.50

Termination Interface: Style

Crimp or Compression

Wire Insulation Diameter

2.60mm (.102") max.

Wire Size AWG

18, 20

Wire Size mm²

0.75, 1.00

Electrical

Current - Maximum per Contact

22A

Voltage - Maximum

250V

Material Info

Reference - Drawing Numbers

Sales Drawing

SD-34083-002



image - Reference only

Series

EU RoHS

ELV and RoHS

Compliant

REACH SVHC

Contains SVHC: No

Halogen-Free

Status

China RoHS



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.

Search Parts in this Series

34083Series

Use With

[33471](#) Single Row Sealed Connector, [33472](#) Dual Row Sealed Connector, [33476](#) Dual Row Hybrid Sealed Connector, [34062](#) Single Row 2-Way Cable Sealed Connector, [34250](#) Single Row 3-Way Cable Sealed Connector

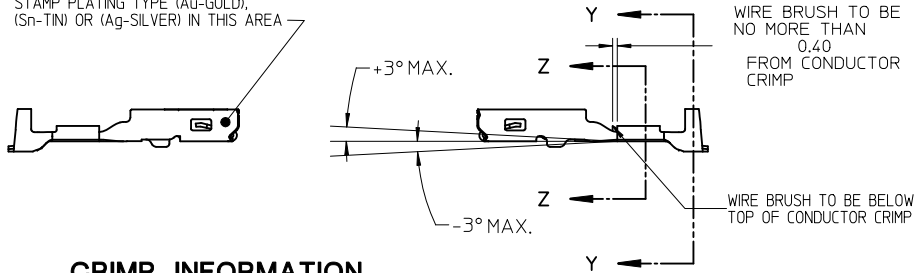
Application Tooling | FAQ

Tooling specifications and manuals are found by selecting the products below. Crimp Height Specifications are then contained in the Application Tooling Specification document.

Global	
Description	Product #
Manual Extraction Tool	0638131500

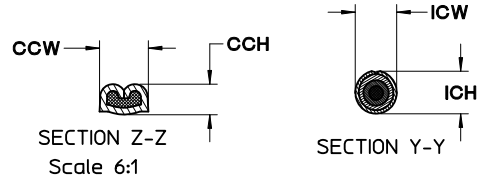
PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

STAMP PLATING TYPE (Au-GOLD),
(Sn-TIN) OR (Ag-SILVER) IN THIS AREA



CRIMP INFORMATION

SEE TABLE 1 ON SHEET 2



SILVER PLATING:
BASE LAYER:
ELECTRODEPOSITED DUCTILE SULFATE NICKEL
THICKNESS: 1.25 - 2.25 MICROMETERS

SILVER LAYER:
ZONE A1 AND ZONE A2
ELECTRODEPOSITED PURE SILVER (IMPURITIES 0.5% MAX)
FINISH: SEMI-BRIGHT
THICKNESS: 1.9 - 3.3 MICROMETERS

ANTI-TARNISH TREATMENT FOR SILVER PLATED TERMINALS:
EVABRITE WS

ZONE B:
TIN PLATING: PER MOLEX ES-88 REVISION: REL

THICKNESS 1 (1.25 - 2.25 MICROMETERS)
ELECTRODEPOSITED SULFAMATE DUCTILE NICKEL (BASE LAYER)

THICKNESS 2 (2.50 - 4.00 MICROMETERS) ELECTRODEPOSITED
TIN (100% TIN) MATTE FINISH

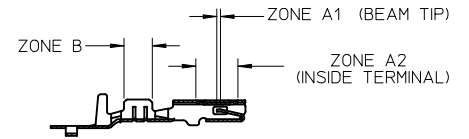
PLATING NOTES:

1. TIN PLATING: (ENTIRE TERMINAL)

THICKNESS 1 (0.25-1.00 MICROMETERS)
ELECTRODEPOSITED ADVANCED TIN BARRIER (BASE LAYER)

THICKNESS 2 (0.50-1.00 MICROMETERS)
ELECTRODEPOSITED REFLOW TIN (100% TIN, NO BRIGHTENERS)

PLATING INFORMATION



SECTION A-A

GOLD PLATING NOTES:

ZONE A1 AND ZONE A2:
PER MOLEX ES-88 REVISION:REL

THICKNESS 1 (1.25 - 2.25 MICROMETERS)
ELECTRODEPOSITED SULFAMATE DUCTILE NICKEL (BASE LAYER)

THICKNESS 2 (0.76 MICROMETERS MINIMUM)
ELECTRODEPOSITED GOLD CAP

ZONE B:
TIN PLATING: PER MOLEX ES-88 REVISION:REL

THICKNESS 1 (1.25-2.25 MICROMETERS)
ELECTRODEPOSITED SULFAMATE DUCTILE NICKEL (BASE LAYER)

THICKNESS 2 (2.50 - 4.00 MICROMETERS) ELECTRODEPOSITED
TIN (100% TIN) MATTE FINISH

NOTES: (UNLESS OTHERWISE SPECIFIED)

1. MATING TERMINAL SHOWN ON MOLEX DRAWING SD-34080-001

2. MATERIAL: ASTM B422, UNS C19025, HR04
THICKNESS: 0.30 mm ±0.01
TEMPER: FULL HARD (REF)
TENSILE: 496 MIN MPA
PLATING: SEE PLATING NOTES

3. MEETS PERFORMANCE SPECIFICATION FOR CABLE TO TERMINAL
ELECTRICAL CRIMPS PER SAE/USCAR-21 (8/2001)

4. MEETS PERFORMANCE STANDARD FOR AUTOMOTIVE ELECTRICAL
CONNECTOR SYSTEMS FOR SAE/USCAR-2, REV. 4 (TEMP CLASS 3)
(4/2001)

5. MEETS ELECTRICAL CONNECTION SYSTEM DESIGN SPECIFICATION
(SDS) REV.11 (5/2002)

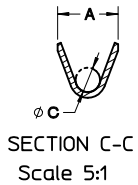
6. MEETS FIELD CORRELATED LIFE TEST (FCLT) PER
SAE/USCAR-20 (11/2001)

7. INSERTION FORCE WITH INLINE BLADE
AVG FROM PV TESTING = 3.5 N TIN (REFERENCE)
3.1 N GOLD (REFERENCE)

8. REFERENCE PK-31300-516 FOR REEL DIRECTION

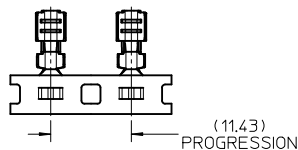
9. REFERENCE CS-34083-002 FOR ADDITIONAL
CRIMP INFORMATION

SECTION B-B Scale 5:1



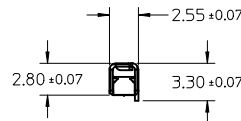
CARRIER BUMP DIRECTION
POINTS DOWN FOR TIN PLATED TERMINALS
POINTS UP FOR PRECIOUS PLATED TERMINALS

SECTION A-A



SCALE 2:1

SEE TABLE 2 ON SHEET 3
FOR CHARTED DIM.

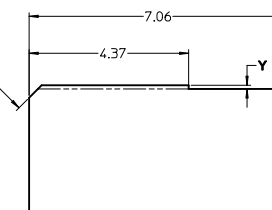


ENTER DESCRIPTION EC NO: UAU2010-0419 DRAWN:FERGUSON CHKD:A.DHIR APPR:BMOSER 2009/12/02 2009/12/02	DESCRIPTION	QUALITY SYMBOLS ▽=0 ◻=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 3:1	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION
				mm	INCH	DRAWN BY K.FERGUSON	DATE 4/14/2009	TITLE MX 150 RECEPTACLE CABLE SEAL	
			4 PLACES	± ---	± ---	CHECKED BY A. DHIR	DATE 4/14/2009		
			3 PLACES	± ---	± ---	APPROVED BY B. MOSER	DATE 4/14/2009		
			2 PLACES	± 0.10	± ---				
			1 PLACE	± 0.3	± ---				
			ANGULAR ± 3 °						
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MATERIAL NO. SEE TABLE		DOCUMENT NO. SD-34083-002	SHEET NO. 1 OF 3	
					THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				

TABLE 1 – TERMINAL CRIMP DIMENSION REFERENCE TABLE											
SUPPLIER PART NO.		PLATING	WIRE SIZE (awg)	WIRE SPECIFICATION	CONDUCTOR CCH (SEC Z-Z) ±0.05	CONDUCTOR CCW (SEC Z-Z) ±0.10	INSULATOR ICH (SEC Y-Y) ±0.10	INSULATOR ICW (SEC Y-Y) ±0.10	WIRE PULL FORCE (N)	OSR CABLE SEAL PART NO.	YAZAKI CABLE SEAL PART NO.
RIGHT PAYOFF	LEFT PAYOFF										
34083-2001	34083-3001	TIN	14	MIL-123A	1.65	2.45	3.95	3.65	268	-	7158-3033-40
			14	MIL-135A1	1.65	2.45	3.80	3.65	268	E-1644-02	-
			16	MIL-123A	1.35	2.45	3.80	3.65	222	E-1644-02	-
34083-2002	34083-3002	TIN	18	MIL-123A	1.25	2.15	3.70	3.55	157	E-1644-00	-
				SAE J1128 (GXL)	1.25	2.15	3.90	3.55	157	E-1644-02	-
			20	MIL-123A	1.15	2.15	3.60	3.55	128	E-1644-00	-
				SAE J1128 (GXL)	1.15	2.15	3.80	3.55	128	E-1644-02	-
34083-2003	34083-3003	TIN	22	MIL-123A	1.00	1.60	3.50	3.45	88	E-1644-01	-
34083-2001	34083-3001	TIN	2.00mm ²	JASO D 611AVSS	1.60	2.45	3.95	3.65	268	-	7158-3033-40
34083-2001	34083-3001	TIN	1.50mm ²	MIL-126A1	1.40	2.45	3.80	3.65	257	E-1644-02	-
34083-2002	34083-3002	TIN	1.0mm ²	MIL-126A1	1.30	2.15	3.70	3.55	211	E-1644-00	-
34083-2002	34083-3002	TIN	0.75mm ²	MIL-126A1	1.25	2.15	3.60	3.55	142	E-1644-00	-
34083-2003	34083-3003	TIN	0.50mm ²	MIL-126A1	1.10	1.60	3.50	3.45	111	E-1644-01	-
34083-2003	34083-3003	TIN	0.50mm ²	JASO D 611AVSS	1.10	1.60	3.50	3.45	111	E-1644-01	-
34081-2003	34081-3003	GOLD	14	MIL-123A	1.65	2.45	3.95	3.65	268	-	7158-3033-40
			14	MIL-135A1	1.65	2.45	3.80	3.65	268	E-1644-02	-
			16	MIL-123A	1.35	2.45	3.80	3.65	222	E-1644-02	-
34081-2004	34081-3004	GOLD	18	MIL-123A	1.25	2.15	3.70	3.55	157	E-1644-00	-
				SAE J1128 (GXL)	1.25	2.15	3.90	3.55	157	E-1644-02	-
			20	MIL-123A	1.15	2.15	3.60	3.55	128	E-1644-00	-
				SAE J1128 (GXL)	1.15	2.15	3.80	3.55	128	E-1644-02	-
34081-2005	34081-3005	GOLD	22	MIL-123A	1.00	1.60	3.50	3.45	88	E-1644-01	-
34081-2003	34081-3003	GOLD	2.00mm ²	JASO D 611AVSS	1.60	2.45	3.95	3.65	268	-	7158-3033-40
34081-2003	34081-3003	GOLD	1.50mm ²	MIL-126A1	1.40	2.45	3.80	3.65	257	E-1644-02	-
34081-2004	34081-3004	GOLD	1.0mm ²	MIL-126A1	1.30	2.15	3.70	3.55	211	E-1644-00	-
34081-2004	34081-3004	GOLD	0.75mm ²	MIL-126A1	1.25	2.15	3.60	3.55	142	E-1644-00	-
34081-2005	34081-3005	GOLD	0.50mm ²	MIL-126A1	1.10	1.60	3.50	3.45	111	E-1644-01	-
34081-2005	34081-3005	GOLD	0.50mm ²	JASO D 611AVSS	1.10	1.60	3.50	3.45	111	E-1644-01	-
34081-4001	34081-5001	SILVER	14	MIL-123A	1.65	2.45	3.95	3.65	268	-	7158-3033-40
			14	MIL-135A1	1.65	2.45	3.80	3.65	268	E-1644-02	-
			16	MIL-123A	1.35	2.45	3.80	3.65	222	E-1644-02	-
34081-4002	34081-5002	SILVER	18	MIL-123A	1.25	2.15	3.70	3.55	157	E-1644-00	-
				SAE J1128 (GXL)	1.25	2.15	3.90	3.55	157	E-1644-02	-
			20	MIL-123A	1.15	2.15	3.60	3.55	128	E-1644-00	-
				SAE J1128 (GXL)	1.15	2.15	3.80	3.55	128	E-1644-02	-
34081-4003	34081-5003	SILVER	22	MIL-123A	1.00	1.60	3.50	3.45	88	E-1644-01	-
34081-4001	34081-5001	SILVER	2.00mm ²	JASO D 611AVSS	1.60	2.45	3.95	3.65	268	-	7158-3033-40
34081-4001	34081-5001	SILVER	1.50mm ²	MIL-126A1	1.40	2.45	3.80	3.65	257	E-1644-02	-
34081-4002	34081-5002	SILVER	1.0mm ²	MIL-126A1	1.30	2.15	3.70	3.55	211	E-1644-00	-
34081-4002	34081-5002	SILVER	0.75mm ²	MIL-126A1	1.25	2.15	3.60	3.55	142	E-1644-00	-
34081-4003	34081-5003	SILVER	0.50mm ²	MIL-126A1	1.10	1.60	3.50	3.45	111	E-1644-01	-
34081-4003	34081-5003	SILVER	0.50mm ²	JASO D 611AVSS	1.10	1.60	3.50	3.45	111	E-1644-01	-

ENTER DESCRIPTION IEC NO. 0A02010-0419 DRAWN BY K. FERGUSON 2009/12/02 CHKD BY CHLOE DHR 2009/12/02 APPROVED BY B. MOSER 2009/12/02 REV A5	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
		4 PLACES ± ---	mm INCH	DRAWN BY K. FERGUSON	DATE 4/14/2009	TITLE MX 150 RECEPTACLE CABLE SEAL	MATERIAL NO. SD-34083-002			
		3 PLACES ± ---	mm INCH	CHECKED BY A. DHR	DATE 4/14/2009		SHEET NO. 2 OF 3			
		2 PLACES ± 0.10	mm INCH	APPROVED BY B. MOSER	DATE 4/14/2009					
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		ANGULAR ± 3 °		SEE TABLE		MOLEX INCORPORATED				
				SIZE D		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				

SEE TABLE 2 FOR TABLED DIMENSIONS



SUPPLIER PART NUMBER		PLATING (STAMPING)	WIRE APPLICATION		A	B	C	D	E	F	G	J	K	M	N	P	T	U	V	W	Y	AA	BB	CC	DD	E
RIGHT PAYOFF	LEFT PAYOFF		SAE (AWG)	METRIC (mm²)	+0.3	+0.20	+0.3	+0.15	+0.01	+0.005	+0.005	+0.05	+0.01	+0.005	+0.10	+0.005	+0.03	+0.005	+0.005	+0.10	+0.01	+0.10	+0.01	+0.01	+0.01	+0.10
34083-2001	34083-3001	TIN	14	2.0	3.6	5.00	1.7	2.90	12.82	0.600	1.194	6.86	0.90	1.778	6.73	2.438	0.12	3.429	1.575	6.11	0.10	1.13	6.34	5.79	4°	5.5
			16	1.5	3.6	5.00	1.7	2.90	12.82	0.600	1.194	6.86	0.90	1.778	6.73	2.438	0.12	3.429	1.575	6.11	0.10	1.13	6.34	5.79	4°	5.5
34083-2002	34083-3002	TIN	18	1.0	3.3	5.00	1.3	2.90	12.57	0.556	0.963	7.34	0.70	1.753	6.73	2.085	0.33	3.378	1.699	1.94	0.14	0.88	-	-	-	3.8
			20	0.75	3.3	5.00	1.3	2.90	12.57	0.556	0.963	7.34	0.70	1.753	6.73	2.085	0.33	3.378	1.699	1.94	0.14	0.88	-	-	-	3.8
34083-2003	34083-3003	TIN	22	0.5	2.5	4.85	0.9	2.90	11.92	0.414	0.714	6.27	0.55	1.737	7.06	1.576	0.26	3.327	1.524	2.00	0.07	1.08	-	-	-	3.8
34081-2003	34081-3003	GOLD	14	2.0	3.6	5.00	1.7	2.90	12.82	0.600	1.194	6.86	0.90	1.778	6.73	2.438	0.12	3.429	1.575	6.11	0.10	1.13	6.34	5.79	4°	5.5
			16	1.5	3.6	5.00	1.7	2.90	12.82	0.600	1.194	6.86	0.90	1.778	6.73	2.438	0.12	3.429	1.575	6.11	0.10	1.13	6.34	5.79	4°	5.5
34081-2004	34081-3004	GOLD	18	1.0	3.3	5.00	1.3	2.90	12.57	0.556	0.963	7.34	0.70	1.753	6.73	2.085	0.33	3.378	1.699	1.94	0.14	0.88	-	-	-	3.8
			20	0.75	3.3	5.00	1.3	2.90	12.57	0.556	0.963	7.34	0.70	1.753	6.73	2.085	0.33	3.378	1.699	1.94	0.14	0.88	-	-	-	3.8
34081-2005	34081-3005	GOLD	22	0.5	2.5	4.85	0.9	2.90	11.92	0.414	0.714	6.27	0.55	1.737	7.06	1.576	0.26	3.327	1.524	2.00	0.07	1.08	-	-	-	3.8
34081-4001	34081-5001	SILVER	14	2.0	3.6	5.00	1.7	2.90	12.82	0.600	1.194	6.86	0.90	1.778	6.73	2.438	0.12	3.429	1.575	6.11	0.10	1.13	6.34	5.79	4°	5.5
			16	1.5	3.6	5.00	1.7	2.90	12.82	0.600	1.194	6.86	0.90	1.778	6.73	2.438	0.12	3.429	1.575	6.11	0.10	1.13	6.34	5.79	4°	5.5
34081-4002	34081-5002	SILVER	18	1.0	3.3	5.00	1.3	2.90	12.57	0.556	0.963	7.34	0.70	1.753	6.73	2.085	0.33	3.378	1.699	1.94	0.14	0.88	-	-	-	3.8
			20	0.75	3.3	5.00	1.3	2.90	12.57	0.556	0.963	7.34	0.70	1.753	6.73	2.085	0.33	3.378	1.699	1.94	0.14	0.88	-	-	-	3.8
34081-4003	34081-5003	SILVER	22	0.5	2.5	4.85	0.9	2.90	11.92	0.414	0.714	6.27	0.55	1.737	7.06	1.576	0.26	3.327	1.524	2.00	0.07	1.08	-	-	-	3.8

ENTER DESCRIPTION EC NO: UAL2010-049 DRAWN BY: CHONG JHJR CHECKED BY: CHONG JHJR APPROVED BY: 2006/04/15	QUALITY SYMBOLS $\nabla=0$ $\nabla=0$	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 1:1	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION	
		mm	INCH	DRAWN BY K. PERGUSON	DATE 4/14/2009	TITLE MX 150 RECEPTACLE CABLE SEAL			
		4 PLACES $\pm$ --- 3 PLACES $\pm$ --- 2 PLACES $\pm$ 0.10 1 PLACE $\pm$ 0.3	4 PLACES $\pm$ --- 3 PLACES $\pm$ --- 2 PLACES $\pm$ 0.010 1 PLACE $\pm$ 0.03	DESIGNED BY A. DHIR	DATE 4/14/2009	 MOLEX CORPORATION			
		ANGULAR $\pm$ 3°		APPROVED BY B. MOSER	DATE 4/14/2009	MATERIAL NO.	DOCUMENT NO. SD-34083-002	SHEET NO. 3 OF 3	
REVISION A5	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			SEE TABLE		SD-34083-002			
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX CORPORATION AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					