This document was generated on 05/19/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: 0340833003
Status: Active
Overview: mx150_sealed_connector_system
Description: MX150™ Female Cable Seal Terminal, Tin (Sn) Plating, 22 AWG, Left Reel Payoff, Contact Material Thickness 0.30mm (.012")

image - Reference only

Series

Documents:
Drawing (PDF)
RoHS Certificate of Compliance (PDF)

General

Product Family	Crimp Terminals
Series	34083
Comments	Left Reel Payoff|Cable Seal
Crimp Quality Equipment	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	22
Wire Size mm²	0.5

Electrical

Current - Maximum per Contact	22A
Voltage - Maximum	250V

Material Info

Reference - Drawing Numbers

Sales Drawing	SD-34083-002

EU RoHS
ELV and RoHS Compliant
REACH SVHC
Contains SVHC: No
Halogen-Free Status
Halogen-Free

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.

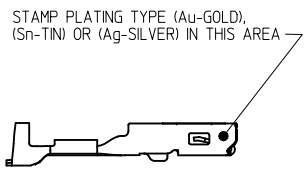
Global

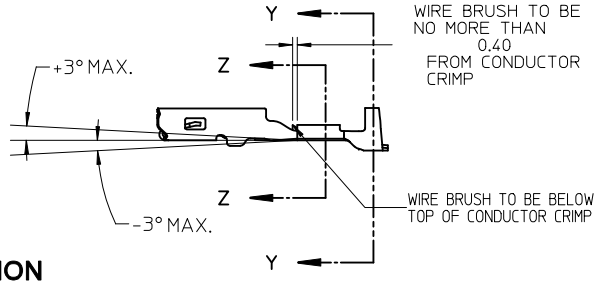
Description	Product #
Manual Extraction Tool	0638131500
Hand Crimp Tool For MX150 Cable Seal Crimp Terminals	0638199300

Fine Adjust Applicator for MX150™ Cable Seal Crimp Terminals	0639018200

This document was generated on 05/19/2010

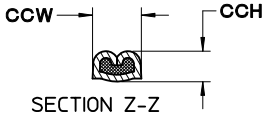
PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION



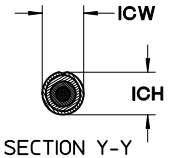


CRIMP INFORMATION

SEE TABLE 1 ON SHEET 2



SECTION Z-Z
Scale 6:1



SECTION Y-Y

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

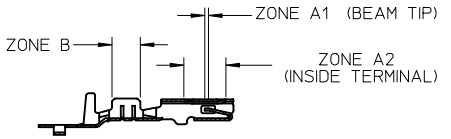
PLATING NOTES:

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

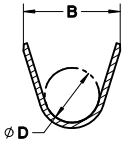
THICKNESS 1 (1.25 - 2.25 MICROMETERS)
ELECTRODEPOSITED SULFAMATE DUCTILE NICKEL (BASE LAYER)

THICKNESS 2 (0.76 MICROMETERS MINIMUM)
ELECTRODEPOSITED GOLD CAP

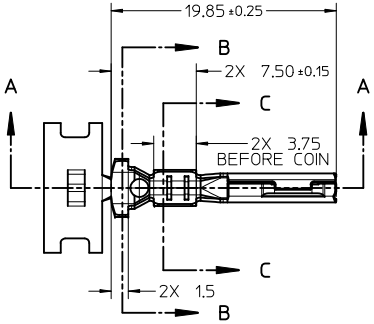
ZONE B:
TIN PLATING: PER MOLEX ES-88 REVISION:REL

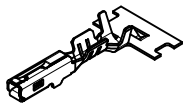
THICKNESS 1 (1.25-2.25 MICROMETERS)
ELECTRODEPOSITED SULFAMATE DUCTILE NICKEL (BASE LAYER)

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



SECTION B-B
Scale 5:1



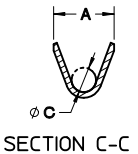


SCALE 2:1

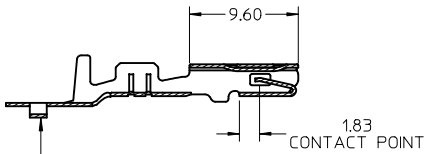
NOTES: (UNLESS OTHERWISE SPECIFIED)

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. REFRENCE PK-31300-516 FOR REEL DIRECTION
9. REFRENCE CS-34083-002 FOR ADDITIONAL CRIMP INFORMATION

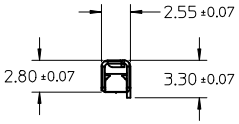
SEE TABLE 2 ON SHEET 3
FOR CHARTED DIM.



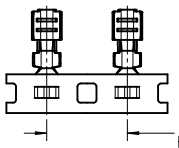
SECTION C-C
Scale 5:1



SECTION A-A



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



ENTER DESCRIPTION
EC NO: UAU2010-0419 2009/12/02
DRWN:KFERGUSON 2009/12/02
CH'KD:A. DHIR
APPR:BMOSER
DESCRIPTION
A5
REV

QUALITY SYMBOLS
▼=0
▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± 0.10	± ---
1 PLACE	± 0.3	± ---
ANGULAR ± 3 °		

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE	MM ONLY
SCALE	3:1
DESIGN UNITS	METRIC
	THIRD ANGLE PROJECTION
DRAWN BY / DATE	K.FERGUSON 4/14/2009
CHECKED BY / DATE	A. DHIR 4/14/2009
APPROVED BY / DATE	B. MOSER 4/14/2009
MATERIAL NO.	SEE TABLE
TITLE	MX 150 RECEPTACLE CABLE SEAL
	MOLEX INCORPORATED
DOCUMENT NO.	SD-34083-002
SHEET NO.	1 OF 3
SIZE	C

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)	QSR CABLE SEAL PART NO.	YAZAKI CABLE SEAL PART NO.
RIGHT PAYOFF	LEFT PAYOFF										
34083-2001	34083-3001	TIN	14	M1L-123A	1.65	2.45	3.95	3.65	268	-	7158-3033-40
			14	M1L-135A1	1.65	2.45	3.80	3.65	268	E-1644-02	-
			16	M1L-123A	1.35	2.45	3.80	3.65	222	E-1644-02	-
34083-2002	34083-3002	TIN	18	M1L-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	M1L-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	M1L-123A	1.00	1.60	3.50	3.45	88	E-1644-01	-
34083-2001	34083-3001	TIN	2.00mm ^{2}	JASO D 611(AVSS)	1.60	2.45	3.95	3.65	268	-	7158-3033-40
34083-2001	34083-3001	TIN	1.50mm ^{2}	M1L-126A1	1.40	2.45	3.80	3.65	257	E-1644-02	-
34083-2002	34083-3002	TIN	1.0mm ^{2}	M1L-126A1	1.30	2.15	3.70	3.55	211	E-1644-00	-
			0.75mm ^{2}	M1L-126A1	1.25	2.15	3.60	3.55	142	E-1644-00	-
34083-2003	34083-3003	TIN	0.50mm ^{2}	M1L-126A1	1.10	1.60	3.50	3.45	111	E-1644-01	-
				JASO D 611(AVSS)	1.10	1.60	3.50	3.45	111	E-1644-01	-
34081-2003	34081-3003	GOLD	14	M1L-123A	1.65	2.45	3.95	3.65	268	-	7158-3033-40
			14	M1L-135A1	1.65	2.45	3.80	3.65	268	E-1644-02	-
			16	M1L-123A	1.35	2.45	3.80	3.65	222	E-1644-02	-
34081-2004	34081-3004	GOLD	18	M1L-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	M1L-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	M1L-123A	1.00	1.60	3.50	3.45	88	E-1644-01	-
34081-2003	34081-3003	GOLD	2.00mm ^{2}	JASO D 611(AVSS)	1.60	2.45	3.95	3.65	268	-	7158-3033-40
34081-2003	34081-3003	GOLD	1.50mm ^{2}	M1L-126A1	1.40	2.45	3.80	3.65	257	E-1644-02	-
34081-2004	34081-3004	GOLD	1.0mm ^{2}	M1L-126A1	1.30	2.15	3.70	3.55	211	E-1644-00	-
			0.75mm ^{2}	M1L-126A1	1.25	2.15	3.60	3.55	142	E-1644-00	-
34081-2005	34081-3005	GOLD	0.50mm ^{2}	M1L-126A1	1.10	1.60	3.50	3.45	111	E-1644-01	-
				JASO D 611(AVSS)	1.10	1.60	3.50	3.45	111	E-1644-01	-
34081-4001	34081-5001	SILVER	14	M1L-123A	1.65	2.45	3.95	3.65	268	-	7158-3033-40
			14	M1L-135A1	1.65	2.45	3.80	3.65	268	E-1644-02	-
			16	M1L-123A	1.35	2.45	3.80	3.65	222	E-1644-02	-
34081-4002	34081-5002	SILVER	18	M1L-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	M1L-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	M1L-123A	1.00	1.60	3.50	3.45	88	E-1644-01	-
34081-4001	34081-5001	SILVER	2.00mm ^{2}	JASO D 611(AVSS)	1.60	2.45	3.95	3.65	268	-	7158-3033-40
34081-4001	34081-5001	SILVER	1.50mm ^{2}	M1L-126A1	1.40	2.45	3.80	3.65	257	E-1644-02	-
34081-4002	34081-5002	SILVER	1.0mm ^{2}	M1L-126A1	1.30	2.15	3.70	3.55	211	E-1644-00	-
			0.75mm ^{2}	M1L-126A1	1.25	2.15	3.60	3.55	142	E-1644-00	-
34081-4003	34081-5003	SILVER	0.50mm ^{2}	M1L-126A1	1.10	1.60	3.50	3.45	111	E-1644-01	-
				JASO D 611(AVSS)	1.10	1.60	3.50	3.45	111	E-1644-01	-

ENTER DESCRIPTION
EC NO: UAU2010-0419 2009/12/02
DRWN:KFERGUSON 2009/12/02
CHK:DA.DHIR 2009/12/02
APPR:BMOSER 2009/12/02
DESCRIPTION
REV
A5

QUALITY SYMBOLS
▼=0
▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± 0.10	± ---
1 PLACE	± 0.3	± ---
ANGULAR ± 3 °		

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: MM ONLY
SCALE
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY: K.FERGUSON DATE: 4/14/2009
CHECKED BY: A. DHIR DATE: 4/14/2009
APPROVED BY: B. MOSER DATE: 4/14/2009

TITLE: MX 150 RECEPTACLE CABLE SEAL

MOLEX INCORPORATED

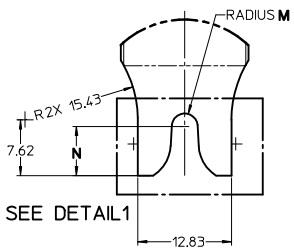
MATERIAL NO.: SEE TABLE
DOCUMENT NO.: SD-34083-002
SHEET NO.: 2 OF 3
SIZE: D

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

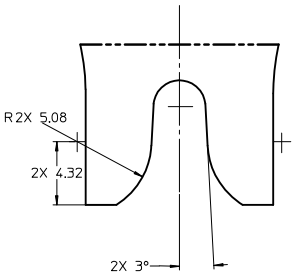
CRIMP TOOL INFORMATION

SEE TABLE 2 FOR TABLED DIMENSIONS

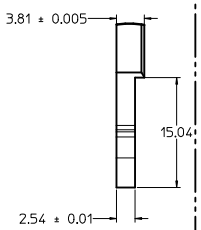
INSULATOR PUNCH
SCALE 4:1



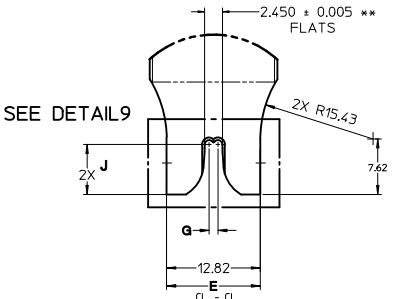
DETAIL1
SCALE 8:1



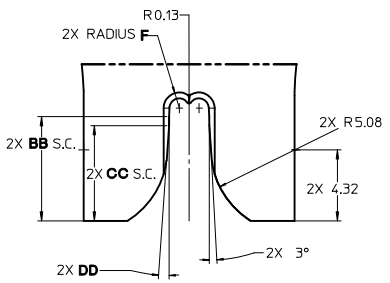
RIGHT VIEW



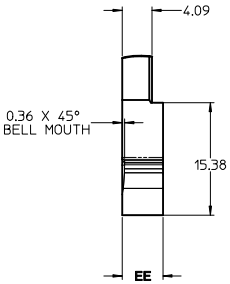
CONDUCTOR PUNCH
SCALE 4:1



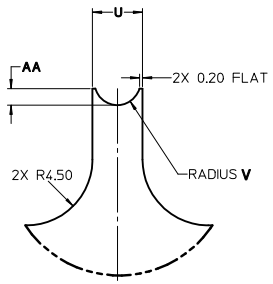
DETAIL9
SCALE 9:1



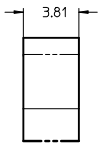
RIGHT VIEW



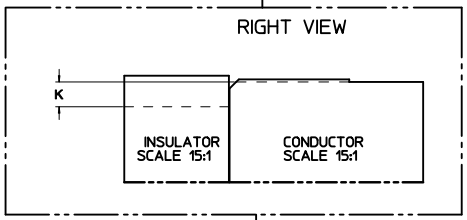
INSULATOR ANVIL



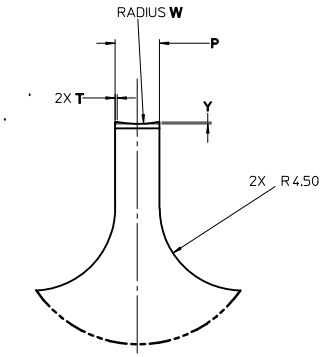
RIGHT VIEW



RIGHT VIEW



CONDUCTOR ANVIL



** 14-16 AWG, 1.50mm2
& 2.0mm2 ONLY

PARTIAL1

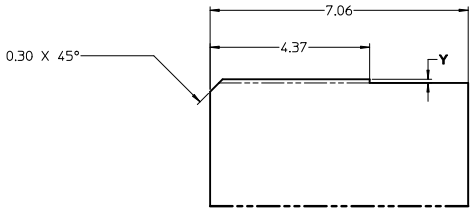


TABLE 2 – TERMINAL GRIP/CRIMP TOOL DIMENSION REFERENCE TABLE

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	EE
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	$\pm\frac{1}{4}°$	±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°	5.59
			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°	5.59
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	–	–	–	3.81
			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	–	–	–	3.81
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	–	–	–	3.81
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°	5.59
			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°	5.59
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	–	–	–	3.81
			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	–	–	–	3.81
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	–	–	–	3.81
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°	5.59
			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°	5.59
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	–	–	–	3.81
			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	–	–	–	3.81
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	–	–	–	3.81

ENTER DESCRIPTION
EC NO: UAU2010-0419 2009/12/02
DRWN:KFERGUSON 2009/04/15
CHKD:A.DHIR 2009/04/15
APPR:BMOSER
DESCRIPTION REV

QUALITY SYMBOLS
▼=0
▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± 0.10	± ---
1 PLACE	± 0.3	± ---
ANGULAR	± 3 °	

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: MM ONLY
SCALE: 1:1
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY: K.FERGUSON DATE: 4/14/2009
CHECKED BY: A. DHIR DATE: 4/14/2009
APPROVED BY: B. MOSER DATE: 4/14/2009

TITLE: MX 150 RECEPTACLE CABLE SEAL

MOLEX INCORPORATED

MATERIAL NO.: SEE TABLE
DOCUMENT NO.: SD-34083-002
SHEET NO.: 3 OF 3
SIZE: E

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2009/12/02
2009/12/02