This document was generated on 05/27/2010

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Part Number: 0330012021
Status: Active
Overview: mx150_sealed_connector_system
Description: MX150™ Female Terminal, Select Gold (Au) Plating, 14-16 AWG, Right Reel Payoff, Large Polarization Rib, Contact Material Thickness 0.30mm (.012")



Series image - Reference only

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

General

Product Family	Crimp Terminals
Series	33001
Comments	Right Reel Payoff, Large Polarization Rib
Crimp Quality Equipment	Yes
Overview	mx150_sealed_connector_system
Product Name	MX150™

Physical

Gender	Female
Material - Metal	High Performance Alloy (HPA)
Material - Plating Mating	Gold
Material - Plating Termination	Tin
Packaging Type	Reel
Plating min: Mating (µin)	30.4
Plating min: Mating (µm)	0.76
Plating min: Termination (µin)	100
Plating min: Termination (µm)	2.5
Termination Interface: Style	Crimp or Compression
Wire Insulation Diameter	2.60mm (.102") max.
Wire Size AWG	14, 16
Wire Size mm²	1.5

Electrical

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

Material Info

Reference - Drawing Numbers

Sales Drawing	SD-33012-002

EU RoHS
ELV and RoHS Compliant
REACH SVHC
Contains SVHC: No
Halogen-Free Status
Not Reviewed

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
33001Series

Use With
33472 Dual Row Housing. 33476 Hybrid Housing. 33471 Single Row Housing

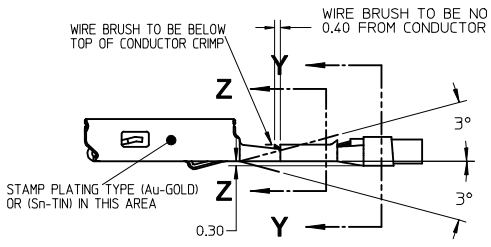
Application Tooling | **FAQ**
Tooling specifications and manuals are found by selecting the products below. Crimp Height Specifications are then contained in the Application Tooling Specification document.

Global

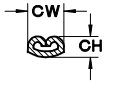
Description	Product #
Manual Extraction Tool	0638131500
Hand Crimp Tool, 14-16AWG	0638115900
Hand Crimp Tool, Metric 1.00 and 1.50	0638116100

This document was generated on 05/27/2010

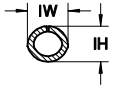
PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION



0.30mm GRIP STEP
ALL TERMINALS
EXCEPT 22GA TERMINAL
SCALE 4:1



SECTION Z-Z
SCALE 5:1



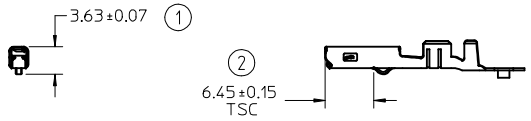
SECTION Y-Y
SCALE 5:1



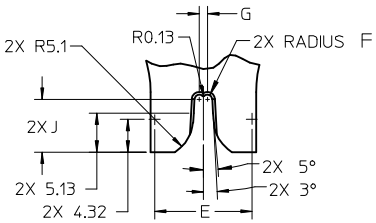
0.00mm GRIP STEP
22GA./0.50mm²/0.35mm²
SCALE 5:1

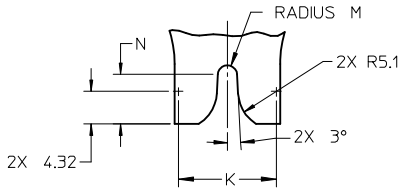
CRIMP INFORMATION

SEE NOTE 14



DIMENSIONS FOR LARGE POLARIZATION RIB TERMINAL ONLY

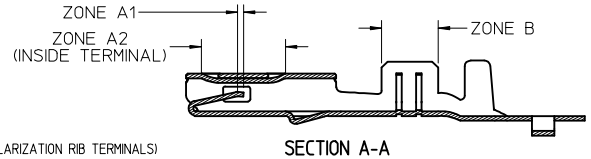




CRIMP TOOL INFORMATION

SEE TABLE 2 FOR TABLED DIMENSIONS

PLATING INFORMATION



SECTION A-A

PLATING NOTES: (FOR SMALL AND LARGE POLARIZATION RIB TERMINALS)

1. PRECIOUS METAL PLATING:

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

BASE LAYER: ELECTRODEPOSITED DUCTILE SULFAMATE NICKEL
THICKNESS: 1.25 - 2.25 MICROMETERS

PRECIOUS LAYER: GOLD OR SILVER

GOLD: ELECTRODEPOSITED GOLD
THICKNESS: 0.76 MICROMETERS MINIMUM

SILVER: ELECTRODEPOSITED PURE SILVER (0.5% MAX IMPURITIES)
THICKNESS: 1.9 - 3.3 MICROMETERS
FINISH: SEMI-BRIGHT
ANTI-TARNISH TREATMENT FOR SILVER PLATING
EVABRITE WS

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

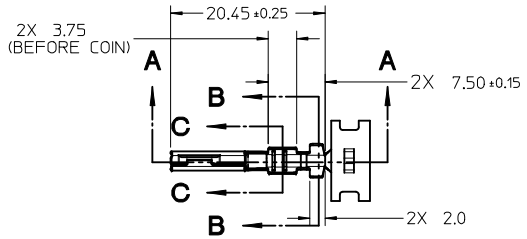
BASE LAYER: ELECTRODEPOSITED DUCTILE SULFAMATE NICKEL
THICKNESS: 1.25-2.25 MICROMETERS

TIN LAYER: ELECTRODEPOSITED 100% TIN MATTE FINISH
THICKNESS: 2.50 - 4.00 MICROMETERS

2. TIN PLATING: (ENTIRE TERMINAL)

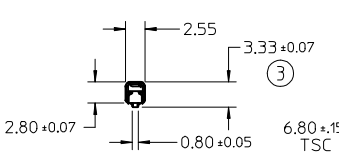
BASE LAYER: ELECTRODEPOSITED ADVANCED TIN BARRIER
THICKNESS: 0.25-1.00 MICROMETERS

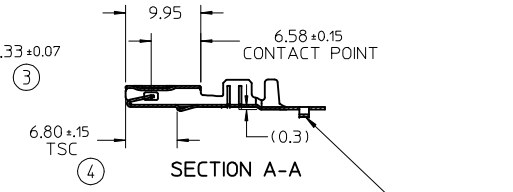
TIN LAYER: ELECTRODEPOSITED REFLOW TIN, 100% TIN
NO BRIGHTENERS
THICKNESS: 0.50-1.00 MICROMETERS





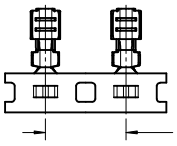
SCALE 1:1

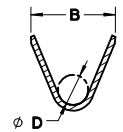




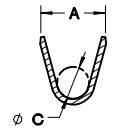
SECTION A-A

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





SECTION B-B
SCALE 5:1



SECTION C-C
SCALE 5:1

NOTES: (UNLESS OTHERWISE SPECIFIED)

1. MATING TERMINAL SHOWN ON SD-33000-001
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 ABOVE
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. MEETS WIRING COMPONENT DESIGN GUIDLINES SAE/USCAR-12 REV 2 (12/2001)
8. TSC ON A DIMENSION TO BE INTERPRETED AS DISTANCE TO A THEORETICAL SHARP CORNER AS IF THE RADIUS WERE NOT PRESENT
9. DRAWING CONFORMS TO AVP-(T401/T406)-001 REVISION A DATED 2/16/99
10. REFERENCE 97BG-14474-AAB FOR LARGE POLARIZATION RIB CAVITY SPECIFICATION
11. INSERTION FORCE (TIN) AVG. FROM PV TESTING =
    3.8N LARGE POLARIZATION RIB
    3.9N SMALL POLARIZATION RIB
    (REFERENCE)
12. ALL DIMENSIONS EXCEPT ①②③&④ ARE COMMON TO BOTH SMALL AND LARGE POLARIZATION RIB TERMINALS
13. REFERENCE PK-31300-516 FOR REEL DIRECTION
14. REFERENCE CS-33012-002 FOR ADDITIONAL CRIMP INFORMATION

ENTER DESCRIPTION
EC NO: UAU2010-0107
DRWN:KFERGUSON 2009/08/19
CHKD:A. DHIR
APPR:BMOSER 2009/08/20
DESCRIPTION
B1
REV

QUALITY SYMBOLS
▼=0
▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± 0.005	± ---
2 PLACES	± 0.10	± ---
1 PLACE	± 0.3	± ---
ANGULAR ± 3 °		

DIMENSION STYLE: MM ONLY
SCALE: 2:1
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY	L. PULLIAM
DATE	2005/06/21
CHECKED BY	A. DHIR
DATE	2005/06/21
APPROVED BY	B. MOSER
DATE	2005/06/22
MATERIAL NO.	SEE TABLE

TITLE: MX150 RECEPTACLE TERMINAL

MOLEX INCORPORATED

DOCUMENT NO.: SD-33012-002
SHEET NO.: 1 OF 5

SIZE: C

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

TABLE 1 - TERMINAL CRIMP DIM. REFERENCE TABLE

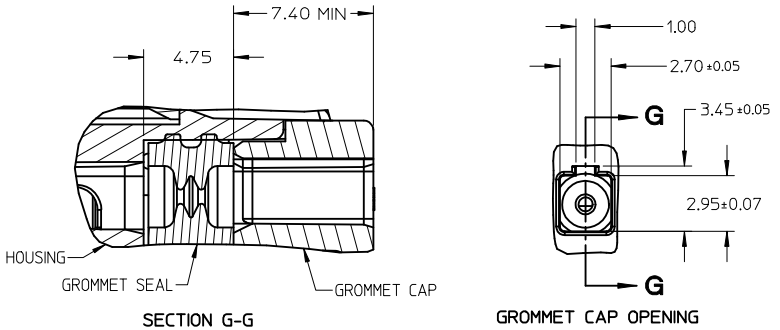
SUPPLIER PART NO.		FORD PART NO.	PLATING	WIRE SIZE (awg)	WIRE SPECIFICATION	CONDUCTOR CH (SEC Z-Z) ±0.05 mm	CONDUCTOR CW (SEC Z-Z) ±0.10 mm	INSULATOR IH (SEC Y-Y) ±0.10 mm	INSULATOR IW (SEC Y-Y) ±0.10 mm	WIRE PULL FORCE (N)
SMALL POLARIZATION RIB										
RIGHT PAYOFF	LEFT PAYOFF									
33012-2001	33012-3001	7C3T-14474-EA	TIN	14	MIL-123A	1.65	2.45	2.90	2.75	268
					MIL-135A1	1.65	2.45	2.70	2.60	268
				16	MIL-123A	1.35	2.45	2.40	2.60	222
33012-2002	33012-3002	7C3T-14474-DA	TIN	18	MIL-123A	1.25	2.15	2.00	2.30	157
					SAE J1128 (GXL)	1.25	2.15	2.40	2.60	158
				20	MIL-123A	1.15	2.15	1.90	2.10	128
					HIFLON WIRE[1]	1.15	2.15	1.90	2.10	135
					SAE J1128 (GXL)	1.15	2.15	2.00	2.30	105
33012-2003	33012-3003	7C3T-14474-CA	TIN	22	MIL-123A	1.00	1.60	1.85	1.90	88
33012-2001	33012-3001	7C3T-14474-EA	TIN	2.00mm²	JASO D 611 (AVSS)	1.60	2.45	2.90	2.75	231
				1.50mm²	MIL-126A1	1.40	2.45	2.60	2.60	257
33012-2002	33012-3002	7C3T-14474-DA	TIN	1.00mm²	MIL-126A1	1.30	2.15	2.00	2.30	211
				0.75mm²	MIL-126A1	1.25	2.15	1.95	2.10	142
33012-2003	33012-3003	7C3T-14474-CA	TIN	0.50mm²	MIL-126A1	1.10	1.60	1.80	1.90	111
					JASO D 611 (AVSS)	1.10	1.60	1.85	1.90	125
33012-2003*	33012-3003*	7C3T-14474-CA*	TIN	0.35mm²	WSK-1A348-A2	0.95	1.60	1.70	1.90	50
33001-2003	33001-3003	7C3T-14474-HA	GOLD	14	MIL-123A	1.65	2.45	2.90	2.75	268
					MIL-135A1	1.65	2.45	2.70	2.60	268
				16	MIL-123A	1.35	2.45	2.40	2.60	222
33001-2004	33001-3004	7C3T-14474-GA	GOLD	18	MIL-123A	1.25	2.15	2.00	2.30	157
					SAE J1128 (GXL)	1.25	2.15	2.40	2.60	158
				20	MIL-123A	1.15	2.15	1.90	2.10	128
					HIFLON WIRE[1]	1.15	2.15	1.90	2.10	135
					SAE J1128 (GXL)	1.15	2.15	2.00	2.30	105
33001-2005	33001-3005	7C3T-14474-FA	GOLD	22	MIL-123A	1.00	1.60	1.85	1.90	88
33001-2003	33001-3003	7C3T-14474-HA	GOLD	2.00mm²	JASO D 611 (AVSS)	1.60	2.45	2.90	2.75	231
				1.50mm²	MIL-126A1	1.40	2.45	2.60	2.60	257
33001-2004	33001-3004	7C3T-14474-GA	GOLD	1.00mm²	MIL-126A1	1.30	2.15	2.00	2.30	211
				0.75mm²	MIL-126A1	1.25	2.15	1.95	2.10	142
33001-2005	33001-3005	7C3T-14474-FA	GOLD	0.50mm²	MIL-126A1	1.10	1.60	1.80	1.90	111
					JASO D 611 (AVSS)	1.10	1.60	1.85	1.90	125
33001-2005*	33001-3005*	7C3T-14474-FA*	GOLD	0.35mm²	WSK-1A348-A2	0.95	1.60	1.70	1.90	50
33001-4001	33001-5001	7U5T-14474-UA	SILVER**	14	MIL-123A	1.65	2.45	2.90	2.75	268
					MIL-135A1	1.65	2.45	2.70	2.60	268
				16	MIL-123A	1.35	2.45	2.40	2.60	222
33001-4002	33001-5002	7U5T-14474-TA	SILVER**	18	MIL-123A	1.25	2.15	2.00	2.30	157
					SAE J1128 (GXL)	1.25	2.15	2.40	2.60	158
				20	MIL-123A	1.15	2.15	1.90	2.10	128
					HIFLON WIRE[1]	1.15	2.15	1.90	2.10	135
					SAE J1128 (GXL)	1.15	2.15	2.00	2.30	105
33001-4003	33001-5003	7U5T-14474-SA	SILVER**	22	MIL-123A	1.00	1.60	1.85	1.90	88
33001-4001	33001-5001	7U5T-14474-UA	SILVER**	2.00mm²	JASO D 611 (AVSS)	1.60	2.45	2.90	2.75	231
				1.50mm²	MIL-126A1	1.40	2.45	2.60	2.60	257
33001-4002	33001-5002	7U5T-14474-TA	SILVER**	1.00mm²	MIL-126A1	1.30	2.15	2.00	2.30	211
				0.75mm²	MIL-126A1	1.25	2.15	1.95	2.10	142
33001-4003	33001-5003	7U5T-14474-SA	SILVER**	0.50mm²	MIL-126A1	1.10	1.60	1.80	1.90	111
					JASO D 611 (AVSS)	1.10	1.60	1.85	1.90	125
33001-4003*	33001-5003*	7U5T-14474-SA*	SILVER**	0.35mm²	WSK-1A348-A2	0.95	1.60	1.70	1.90	50
LARGE POLARIZATION RIB										
33012-2021	33012-3021	7C3T-14474-LA	TIN	14	MIL-123A	1.65	2.45	2.90	2.75	268
					MIL-135A1	1.65	2.45	2.70	2.60	268
				16	MIL-123A	1.35	2.45	2.40	2.60	222
33012-2022	33012-3022	7C3T-14474-KA	TIN	18	MIL-123A	1.25	2.15	2.00	2.30	157
					SAE J1128 (GXL)	1.25	2.15	2.40	2.60	158
				20	MIL-123A	1.15	2.15	1.90	2.10	128
					HIFLON WIRE[1]	1.15	2.15	1.90	2.10	135
					SAE J1128 (GXL)	1.15	2.15	2.00	2.30	105
33012-2023	33012-3023	7C3T-14474-JA	TIN	22	MIL-123A	1.00	1.60	1.85	1.90	88
33012-2021	33012-3021	7C3T-14474-LA	TIN	2.00mm²	JASO D 611 (AVSS)	1.60	2.45	2.90	2.75	231
				1.50mm²	MIL-126A1	1.40	2.45	2.60	2.60	257
33012-2022	33012-3022	7C3T-14474-KA	TIN	1.00mm²	MIL-126A1	1.30	2.15	2.00	2.30	211
				0.75mm²	MIL-126A1	1.25	2.15	1.95	2.10	142
33012-2023	33012-3023	7C3T-14474-JA	TIN	0.50mm²	MIL-126A1	1.10	1.60	1.80	1.90	111
					JASO D 611 (AVSS)	1.10	1.60	1.85	1.90	125
33012-2023*	33012-3023*	7C3T-14474-JA*	TIN	0.35mm²	WSK-1A348-A2	0.95	1.60	1.70	1.90	50
33001-2021	33001-3021	7C3T-14474-PA	GOLD	14	MIL-123A	1.65	2.45	2.90	2.75	268
					MIL-135A1	1.65	2.45	2.70	2.60	268
				16	MIL-123A	1.35	2.45	2.40	2.60	222
33001-2022	33001-3022	7C3T-14474-NA	GOLD	18	MIL-123A	1.25	2.15	2.00	2.30	157
					SAE J1128 (GXL)	1.25	2.15	2.40	2.60	158
				20	MIL-123A	1.15	2.15	1.90	2.10	128
					HIFLON WIRE[1]	1.15	2.15	1.90	2.10	135
					SAE J1128 (GXL)	1.15	2.15	2.00	2.30	105
33001-2023	33001-3023	7C3T-14474-MA	GOLD	22	MIL-123A	1.00	1.60	1.85	1.90	88
33001-2021	33001-3021	7C3T-14474-PA	GOLD	2.00mm²	JASO D 611 (AVSS)	1.60	2.45	2.90	2.75	231
				1.50mm²	MIL-126A1	1.40	2.45	2.60	2.60	257
33001-2022	33001-3022	7C3T-14474-NA	GOLD	1.00mm²	MIL-126A1	1.30	2.15	2.00	2.30	211
				0.75mm²	MIL-126A1	1.25	2.15	1.95	2.10	142
33001-2023	33001-3023	7C3T-14474-MA	GOLD	0.50mm²	MIL-126A1	1.10	1.60	1.80	1.90	111
					JASO D 611 (AVSS)	1.10	1.60	1.85	1.90	125
33001-2023*	33001-3023*	7C3T-14474-MA*	GOLD	0.35mm²	WSK-1A348-A2	0.95	1.60	1.70	1.90	50
33001-4021	33001-5021	7U5T-14474-RA	SILVER**	14	MIL-123A	1.65	2.45	2.90	2.75	268
					MIL-135A1	1.65	2.45	2.70	2.60	268
				16	MIL-123A	1.35	2.45	2.40	2.60	222
33001-4022	33001-5022	7U5T-14474-PA	SILVER**	18	MIL-123A	1.25	2.15	2.00	2.30	157
					SAE J1128 (GXL)	1.25	2.15	2.40	2.60	158
				20	MIL-123A	1.15	2.15	1.90	2.10	128
					HIFLON WIRE[1]	1.15	2.15	1.90	2.10	135
					SAE J1128 (GXL)	1.15	2.15	2.00	2.30	105
33001-4023	33001-5023	7U5T-14474-NA	SILVER**	22	MIL-123A	1.00	1.60	1.85	1.90	88
33001-4021	33001-5021	7U5T-14474-RA	SILVER**	2.00mm²	JASO D 611 (AVSS)	1.60	2.45	2.90	2.75	231
				1.50mm²	MIL-126A1	1.40	2.45	2.60	2.60	257
33001-4022	33001-5022	7U5T-14474-PA	SILVER**	1.00mm²	MIL-126A1	1.30	2.15	2.00	2.30	211
				0.75mm²	MIL-126A1	1.25	2.15	1.95	2.10	142

LARGE POLARIZATION RIB										
RIGHT PAYOFF	LEFT PAYOFF									
33001-4023	33001-5023	7U5T-14474-NA	SILVER**	0.50mm²	MIL-126A1	1.10	1.60	1.80	1.90	111
					JASO D 611 (AVSS)	1.10	1.60	1.85	1.90	125
33001-4023*	33001-5023*	7U5T-14474-NA*	SILVER**	0.35mm²	WSK-1A348-A2	0.95	1.60	1.70	1.90	50

[1] HIFLON WIRE:
CORE WIRE: STAINLESS STEEL, SUS Ø0.14, 7 STRANDS
SURROUNDING WIRE: NICKEL (Ni) PLATED COPPER (Cu) Ø0.14, 30 STRANDS
INSULATOR: PTFE

* 0.35mm² WIRE MUST NOT BE USED IN MX150 SEALED CONNECTOR SYSTEMS

** SILVER PLATED TERMINALS NOT TO BE USED IN CONNECTOR SYSTEMS WITH CIRCUIT COUNTS HIGHER THAN 8 DUE TO HIGHER CONNECTOR MATE/UNMATE FORCE



GROMMET SEAL / CAP CONFIGURATION TO MODIFY LARGE POLARIZATION RIB CAVITY TO ACCEPT SMALL POLARIZATION RIB APPLICATIONS

ENTER DESCRIPTION
EC NO: UAU2010-0107 2009/08/18
DRWN:KFERGUSON 2009/08/19
CH'KD:A. DHIR 2009/08/20
APPR:BMOSER
DESCRIPTION
B1
REV

QUALITY SYMBOLS
▼=0
▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± 0.005	± ---
2 PLACES	± 0.10	± ---
1 PLACE	± 0.3	± ---
ANGULAR ± 3 °		

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

DRAWN BY: L. PULLIAM DATE: 2005/06/21
CHECKED BY: A. DHIR DATE: 2005/06/21
APPROVED BY: B. MOSER DATE: 2005/06/22

TITLE: MX150 RECEPTACLE TERMINAL

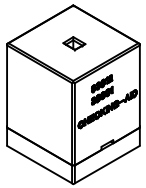
MOLEX INCORPORATED

MATERIAL NO.: SEE TABLE
DOCUMENT NO.: SD-33012-002
SHEET NO.: 2 OF 5

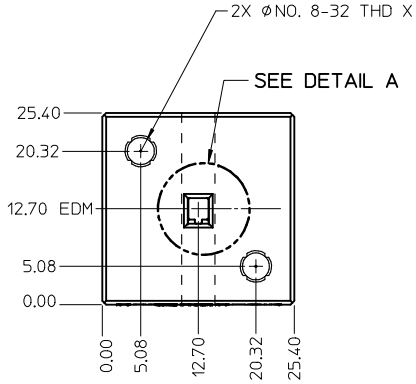
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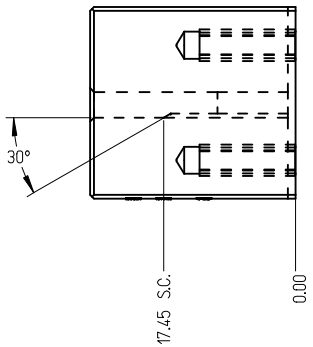
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

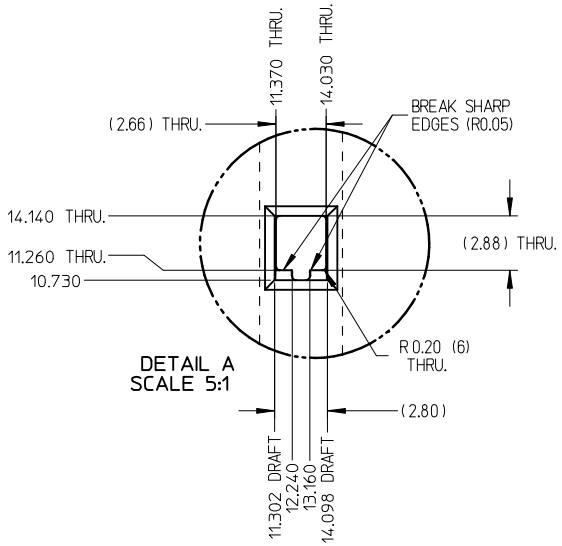
THIS CHECKING - AID IS FOR SMALL POLARIZATION RIB TERMINALS ONLY



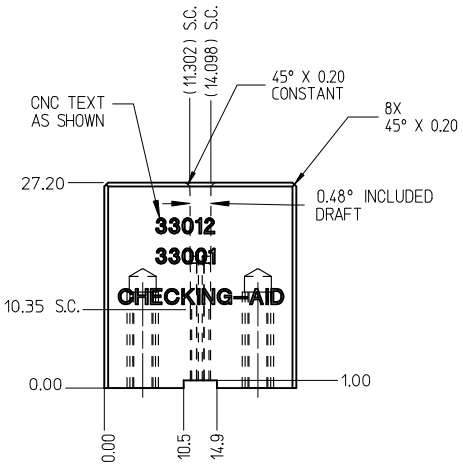
CHECKING - AID ASSEMBLY
SCALE 1:1



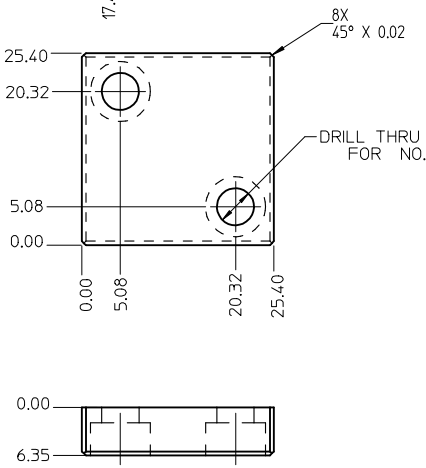




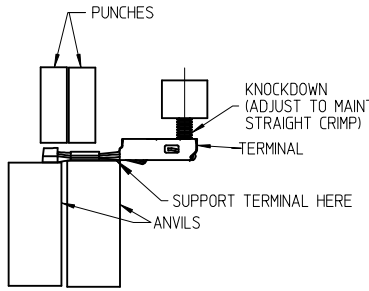
DETAIL A
SCALE 5:1



CHECKING - AID
UPPER



CHECKING - AID
LOWER



CRIMP REQUIREMENTS:

1. CRIMP STRAIGHTNESS MUST BE MAINTAINED
   USE A KNOCKDOWN TOOL LOCATED AS SHOWN
   TERMINAL BOX MUST NOT BE DEFORMED

2. AFTER CRIMPING, THE CRIMPED TERMINAL (AND UP TO 5 mm OF WIRE PAST THE INSULATOR CUTOFF TAB) MUST FIT FREELY INTO THE CHECKING-AID SHOWN ON THIS PAGE

3. FOR OTHER MECHANICAL REQUIREMENTS ON CRIMPED TERMINALS, REFER TO SAE/USCAR-21 (5-13-02) SECTIONS 4.2 (VISUAL INSPECTION), 4.2 (CROSS SECTION ANALYSIS) AND 4.4 (CONDUCTOR CRIMP PULLOUT FORCE)

UPPER & LOWER
CHECKING-AID
A2 TOOL STEEL
HARDEN & GRIND
ROCKWELL "C" 56-58

ENTER DESCRIPTION
EC NO: UAU2010-0107 2009/08/18
DRWN:KFERGUSON 2009/08/19
CH'KD:A.DHIR 2009/08/20
APPR:BMOSER
DESCRIPTION
B1
REV

QUALITY SYMBOLS
▼=0
▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± 0.005	± ---
2 PLACES	± 0.10	± ---
1 PLACE	± 0.3	± ---
ANGULAR ± 3 °		

DIMENSION STYLE: MM ONLY
SCALE: 2:1
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

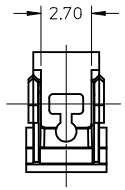
DRAWN BY	L. PULLIAM	DATE 2005/06/21
CHECKED BY	A. DHIR	DATE 2005/06/21
APPROVED BY	B. MOSER	DATE 2005/06/22

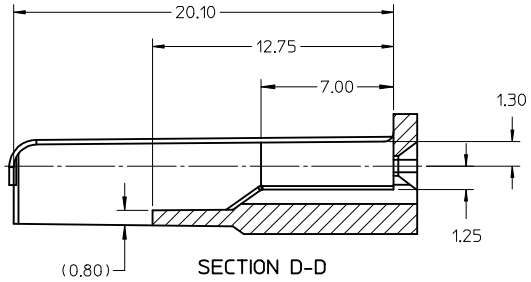
TITLE: MX150 RECEPTACLE TERMINAL

MOLEX INCORPORATED

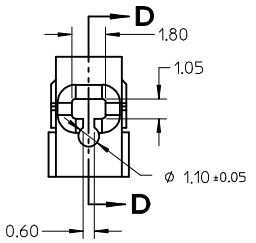
MATERIAL NO.: SEE TABLE
DOCUMENT NO.: SD-33012-002
SHEET NO.: 3 OF 5
SIZE: C

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



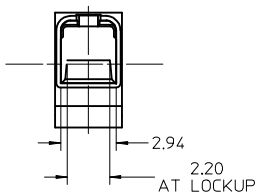


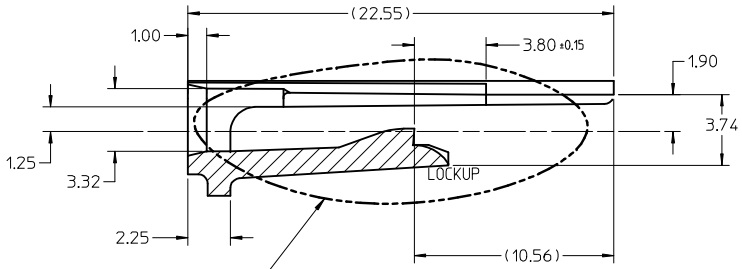
SECTION D-D



NOTES: UNLESS OTHERWISE SPECIFIED

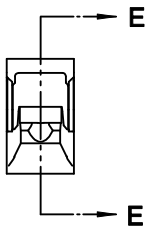
1. TOLERANCES: LINEAR ±0.10
   ANGULAR ±3°
2. ALL DRAFT WITHIN TOLERANCE.
3. MAX RADII ON ALL CORNERS SHOWN SHARP: 0.10
4. MAX FLASH PERMISSIBLE: 0.1
5. EJECTOR PIN MARKS PERMISSIBLE IF FLUSH TO 0.25 BELOW SURFACE.
6. MATERIAL: HOUSING/FINGER SPECIFICATION ENGINEERED FOR MATERIAL WITH THE FOLLOWING PROPERTIES:
   A. FLEXURAL MODULUS = 4,500 TO 9,400 MPa PER ASTM TEST D790
   B. ELONGATION AT YIELD = 2.3% OR BETTER PER ASTM TEST D638 TYPE V
7. CAVITY SPEC FOR USE ONLY WITH MOLEX RECEPTACLE TERMINAL PART NUMBERS SPECIFIED ELSEWHERE ON THIS DRAWING

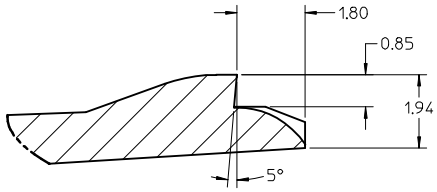




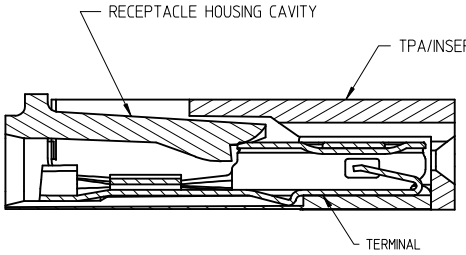
SEE DETAIL Z

SECTION E-E



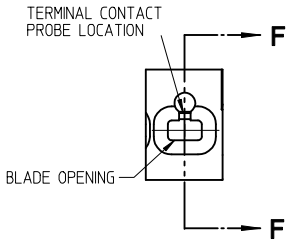


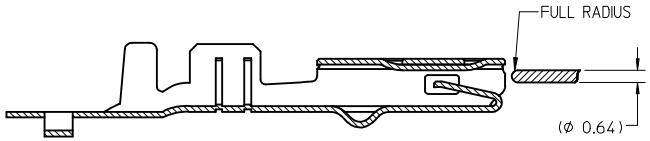
DETAIL Z
SCALE 20:1

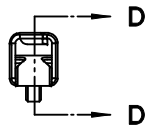


SECTION F-F

RECEPTACLE CAVITY ASSEMBLED VIEWS
FOR SMALL POLARIZATION RIB APPLICATIONS
FIG. 1







SECTION D-D
FOR LARGE POLARIZATION RIB APPLICATIONS
FIG. 2

PROBING DOWN THE
THROAT MUST USE
THIS TERMINAL PROBE

PROBE PIN DETAILS:
MANUFACTURER: LONE STAR INDUSTRIAL
PART NUMBER: LS054R-403-N-4.6
PIN DIAMETER: 0.025 IN (0.64mm)
TIP SHAPE: SPHERICAL
TEL: 915-779-7255

PREFERRED PROBING LOCATION
IS NOT ON SPRING MEMBER

IF ELECTRICAL CONTINUITY PROBE
TOUCHES SPRING MEMBER USE
PROBING AS SHOWN IN FIG. 2

ENTER DESCRIPTION
EC NO: UAU2010-0107 2009/08/18
DRWN:KFERGUSON 2009/08/19
CHKD:A.DHIR 2009/08/20
APPR:BMOSER
DESCRIPTION
B1
REV

QUALITY SYMBOLS
▼=0
▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± 0.005	± ---
2 PLACES	± 0.10	± ---
1 PLACE	± 0.3	± ---
ANGULAR ± 3 °		

DIMENSION STYLE: MM ONLY
SCALE: 5:1
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY	L. PULLIAM	DATE 2005/06/21
CHECKED BY	A. DHIR	DATE 2005/06/21
APPROVED BY	B. MOSER	DATE 2005/06/22

TITLE: MX150 RECEPTACLE TERMINAL

MOLEX INCORPORATED

MATERIAL NO.: SEE TABLE
DOCUMENT NO.: SD-33012-002
SHEET NO.: 4 OF 5

SIZE C

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

TABLE 2 - TERMINAL GRIP/CRIMP TOOL DIM. REFERENCE TABLE

SUPPLIER PART NO.		FORD PART NO.	PLATING (STAMPING)	WIRE APPLICATION		WIRE SPECIFICATION	A±0.30	B±0.30	C±0.30	D±0.30	E±0.005	F±0.005	G±0.005	J±0.005	K±0.005	M±0.005	N±0.005	P±0.005	R±0.005	U±0.005	V±0.005
SMALL POLARIZATION RIB				SAE	METRIC																
RIGHT PAYOFF	LEFT PAYOFF																				
33012-2001	33012-3001	7C3T-14474-EA	TIN	14	2.0	M1L-123A JASO D 611 (AVSS)	3.9	4.4	1.7	1.6	12.82	0.6	1.19	7.05	13.12	1.35	6.91	2.44	6.11	2.72	1.40
				14	-	M1L-135A1	3.9	4.4	1.7	1.6	12.82	0.6	1.19	7.05	12.96	1.28	6.51	2.44	6.11	2.52	1.30
				16	1.5	M1L-123A/M1L-126A1	3.9	4.4	1.7	1.6	12.82	0.6	1.19	7.05	12.96	1.28	6.51	2.44	6.11	2.52	1.30
33012-2002	33012-3002	7C3T-14474-DA	TIN	18	1.0	M1L-123A/M1L-126A1	3.3	3.1	1.3	1.4	12.46	0.57	0.99	6.52	12.65	1.13	6.46	2.14	1.93	2.23	1.15
				18	-	SAE J1128 (GXL)	3.3	3.1	1.3	1.4	12.46	0.57	0.99	6.52	12.96	1.28	6.51	2.14	1.93	2.52	1.30
				20	0.75	M1L-123A/M1L-126A1	3.3	3.1	1.3	1.4	12.46	0.57	0.99	6.52	12.42	1.03	6.36	2.14	1.93	2.04	1.05
				20	-	SAE J1128 (GXL)	3.3	3.1	1.3	1.4	12.46	0.57	0.99	6.52	12.65	1.13	6.46	2.14	1.93	2.23	1.15
33012-2003	33012-3003	7C3T-14474-CA	TIN	22	0.5	M1L-123A/M1L-126A1 JASO D 611 (AVSS)	2.5	2.6	0.9	1.0	11.97	0.42	0.72	6.57	12.24	0.93	6.31	1.60	1.44	1.84	0.95
33012-2003*	33012-3003*	7C3T-14474-CA*	TIN	-	0.35	WSK-1A34B-A2	2.5	2.6	0.9	1.0	11.97	0.42	0.72	6.57	12.24	0.93	6.31	1.60	1.44	1.84	0.95
33001-2003	33001-3003	7C3T-14474-HA	GOLD	14	2.0	M1L-123A JASO D 611 (AVSS)	3.9	4.4	1.7	1.6	12.82	0.6	1.19	7.05	13.12	1.35	6.91	2.44	6.11	2.72	1.40
				14	-	M1L-135A1	3.9	4.4	1.7	1.6	12.82	0.6	1.19	7.05	12.96	1.28	6.51	2.44	6.11	2.52	1.30
				16	1.5	M1L-123A/M1L-126A1	3.9	4.4	1.7	1.6	12.82	0.6	1.19	7.05	12.96	1.28	6.51	2.44	6.11	2.52	1.30
33001-2004	33001-3004	7C3T-14474-GA	GOLD	18	1.0	M1L-123A/M1L-126A1	3.3	3.1	1.3	1.4	12.46	0.57	0.99	6.52	12.65	1.13	6.46	2.14	1.93	2.23	1.15
				18	-	SAE J1128 (GXL)	3.3	3.1	1.3	1.4	12.46	0.57	0.99	6.52	12.96	1.28	6.51	2.14	1.93	2.52	1.30
				20	0.75	M1L-123A/M1L-126A1	3.3	3.1	1.3	1.4	12.46	0.57	0.99	6.52	12.42	1.03	6.36	2.14	1.93	2.04	1.05
				20	-	SAE J1128 (GXL)	3.3	3.1	1.3	1.4	12.46	0.57	0.99	6.52	12.65	1.13	6.46	2.14	1.93	2.23	1.15
33001-2005	33001-3005	7C3T-14474-FA	GOLD	22	0.5	M1L-123A/M1L-126A1 JASO D 611 (AVSS)	2.5	2.6	0.9	1.0	11.97	0.42	0.72	6.57	12.24	0.93	6.31	1.60	1.44	1.84	0.95
33001-2005*	33001-3005*	7C3T-14474-FA*	GOLD	-	0.35	WSK-1A34B-A2	2.5	2.6	0.9	1.0	11.97	0.42	0.72	6.57	12.24	0.93	6.31	1.60	1.44	1.84	0.95
33001-4001	33001-5001	7U5T-14474-UA	SILVER	14	2.0	M1L-123A JASO D 611 (AVSS)	3.9	4.4	1.7	1.6	12.82	0.6	1.19	7.05	13.12	1.35	6.91	2.44	6.11	2.72	1.40
				14	-	M1L-135A1	3.9	4.4	1.7	1.6	12.82	0.6	1.19	7.05	12.96	1.28	6.51	2.44	6.11	2.52	1.30
				16	1.5	M1L-123A/M1L-126A1	3.9	4.4	1.7	1.6	12.82	0.6	1.19	7.05	12.96	1.28	6.51	2.44	6.11	2.52	1.30
33001-4002	33001-5002	7U5T-14474-TA	SILVER	18	1.0	M1L-123A/M1L-126A1	3.3	3.1	1.3	1.4	12.46	0.57	0.99	6.52	12.65	1.13	6.46	2.14	1.93	2.23	1.15
				18	-	SAE J1128 (GXL)	3.3	3.1	1.3	1.4	12.46	0.57	0.99	6.52	12.96	1.28	6.51	2.14	1.93	2.52	1.30
				20	0.75	M1L-123A/M1L-126A1	3.3	3.1	1.3	1.4	12.46	0.57	0.99	6.52	12.42	1.03	6.36	2.14	1.93	2.04	1.05
				20	-	SAE J1128 (GXL)	3.3	3.1	1.3	1.4	12.46	0.57	0.99	6.52	12.65	1.13	6.46	2.14	1.93	2.23	1.15
33001-4003	33001-5003	7U5T-14474-SA	SILVER	22	0.5	M1L-123A/M1L-126A1 JASO D 611 (AVSS)	2.5	2.6	0.9	1.0	11.97	0.42	0.72	6.57	12.24	0.93	6.31	1.60	1.44	1.84	0.95
33001-4003*	33001-5003*	7U5T-14474-SA*	SILVER	-	0.35	WSK-1A34B-A2	2.5	2.6	0.9	1.0	11.97	0.42	0.72	6.57	12.24	0.93	6.31	1.60	1.44	1.84	0.95
LARGE POLARIZATION RIB																					
33012-2021	33012-3021	7C3T-14474-LA	TIN	14	2.0	M1L-123A JASO D 611 (AVSS)	3.9	4.4	1.7	1.6	12.82	0.6	1.19	7.05	13.12	1.35	6.91	2.44	6.11	2.72	1.40
				14	-	M1L-135A1	3.9	4.4	1.7	1.6	12.82	0.6	1.19	7.05	12.96	1.28	6.51	2.44	6.11	2.52	1.30
				16	1.5	M1L-123A/M1L-126A1	3.9	4.4	1.7	1.6	12.82	0.6	1.19	7.05	12.96	1.28	6.51	2.44	6.11	2.52	1.30
33012-2022	33012-3022	7C3T-14474-KA	TIN	18	1.0	M1L-123A/M1L-126A1	3.3	3.1	1.3	1.4	12.46	0.57	0.99	6.52	12.65	1.13	6.46	2.14	1.93	2.23	1.15
				18	-	SAE J1128 (GXL)	3.3	3.1	1.3	1.4	12.46	0.57	0.99	6.52	12.96	1.28	6.51	2.14	1.93	2.52	1.30
				20	0.75	M1L-123A/M1L-126A1	3.3	3.1	1.3	1.4	12.46	0.57	0.99	6.52	12.42	1.03	6.36	2.14	1.93	2.04	1.05
				20	-	SAE J1128 (GXL)	3.3	3.1	1.3	1.4	12.46	0.57	0.99	6.52	12.65	1.13	6.46	2.14	1.93	2.23	1.15
33012-2023	33012-3023	7C3T-14474-JA	TIN	22	0.5	M1L-123A/M1L-126A1 JASO D 611 (AVSS)	2.5	2.6	0.9	1.0	11.97	0.42	0.72	6.57	12.24	0.93	6.31	1.60	1.44	1.84	0.95
33012-2023*	33012-3023*	7C3T-14474-JA*	TIN	-	0.35	WSK-1A34B-A2	2.5	2.6	0.9	1.0	11.97	0.42	0.72	6.57	12.24	0.93	6.31	1.60	1.44	1.84	0.95
33001-2021	33001-3021	7C3T-14474-PA	GOLD	14	2.0	M1L-123A JASO D 611 (AVSS)	3.9	4.4	1.7	1.6	12.82	0.6	1.19	7.05	13.12	1.35	6.91	2.44	6.11	2.72	1.40
				14	-	M1L-135A1	3.9	4.4	1.7	1.6	12.82	0.6	1.19	7.05	12.96	1.28	6.51	2.44	6.11	2.52	1.30
				16	1.5	M1L-123A/M1L-126A1	3.9	4.4	1.7	1.6	12.82	0.6	1.19	7.05	12.96	1.28	6.51	2.44	6.11	2.52	1.30
33001-2022	33001-3022	7C3T-14474-NA	GOLD	18	1.0	M1L-123A/M1L-126A1	3.3	3.1	1.3	1.4	12.46	0.57	0.99	6.52	12.65	1.13	6.46	2.14	1.93	2.23	1.15
				18	-	SAE J1128 (GXL)	3.3	3.1	1.3	1.4	12.46	0.57	0.99	6.52	12.96	1.28	6.51	2.14	1.93	2.52	1.30
				20	0.75	M1L-123A/M1L-126A1	3.3	3.1	1.3	1.4	12.46	0.57	0.99	6.52	12.42	1.03	6.36	2.14	1.93	2.04	1.05
				20	-	SAE J1128 (GXL)	3.3	3.1	1.3	1.4	12.46	0.57	0.99	6.52	12.65	1.13	6.46	2.14	1.93	2.23	1.15
33001-2023	33001-3023	7C3T-14474-MA	GOLD	22	0.5	M1L-123A/M1L-126A1 JASO D 611 (AVSS)	2.5	2.6	0.9	1.0	11.97	0.42	0.72	6.57	12.24	0.93	6.31	1.60	1.44	1.84	0.95
33001-2023*	33001-3023*	7C3T-14474-MA*	GOLD	-	0.35	WSK-1A34B-A2	2.5	2.6	0.9	1.0	11.97	0.42	0.72	6.57	12.24	0.93	6.31	1.60	1.44	1.84	0.95
33001-4021	33001-5021	7U5T-14474-RA	SILVER	14	2.0	M1L-123A JASO D 611 (AVSS)	3.9	4.4	1.7	1.6	12.82	0.6	1.19	7.05	13.12	1.35	6.91	2.44	6.11	2.72	1.40
				14	-	M1L-135A1	3.9	4.4	1.7	1.6	12.82	0.6	1.19	7.05	12.96	1.28	6.51	2.44	6.11	2.52	1.30
				16	1.5	M1L-123A/M1L-126A1	3.9	4.4	1.7	1.6	12.82	0.6	1.19	7.05	12.96	1.28	6.51	2.44	6.11	2.52	1.30
33001-4022	33001-5022	7U5T-14474-PA	SILVER	18	1.0	M1L-123A/M1L-126A1	3.3	3.1	1.3	1.4	12.46	0.57	0.99	6.52	12.65	1.13	6.46	2.14	1.93	2.23	1.15
				18	-	SAE J1128 (GXL)	3.3	3.1	1.3	1.4	12.46	0.57	0.99	6.52	12.96	1.28	6.51	2.14	1.93	2.52	1.30
				20	0.75	M1L-123A/M1L-126A1	3.3	3.1	1.3	1.4	12.46	0.57	0.99	6.52	12.42	1.03	6.36	2.14	1.93	2.04	1.05
				20	-	SAE J1128 (GXL)	3.3	3.1	1.3	1.4	12.46	0.57	0.99	6.52	12.65	1.13	6.46	2.14	1.93	2.23	1.15
33001-4023	33001-5023	7U5T-14474-NA	SILVER	22	0.5	M1L-123A/M1L-126A1 JASO D 611 (AVSS)	2.5	2.6	0.9	1.0	11.97	0.42	0.72	6.57	12.24	0.93	6.31	1.60	1.44	1.84	0.95
33001-4023*	33001-5023*	7U5T-14474-NA*	SILVER	-	0.35	WSK-1A34B-A2	2.5	2.6	0.9	1.0	11.97	0.42	0.72	6.57	12.24	0.93	6.31	1.60	1.44	1.84	0.95

* 0.35mm² WIRE MUST NOT BE USED IN MX150 SEALED CONNECTOR SYSTEMS

ENTER DESCRIPTION
EC NO: UAU2010-0107 2009/08/18
DRWN:KFERGUSON 2009/08/19
CHKD:A. DHIR 2009/08/20
APPR:BMOSER 2009/08/20
DESCRIPTION
B1
REV

QUALITY SYMBOLS
▼=0
Ⓒ▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± 0.005	± ---
2 PLACES	± 0.10	± ---
1 PLACE	± 0.3	± ---
ANGULAR ± 3 °		

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

DRAWN BY: L. PULLIAM DATE: 2005/06/21
CHECKED BY: A. DHIR DATE: 2005/06/21
APPROVED BY: B. MOSER DATE: 2005/06/22

TITLE: MX150 RECEPTACLE TERMINAL

MOLEX INCORPORATED

MATERIAL NO.: SEE TABLE
DOCUMENT NO.: SD-33012-002
SHEET NO.: 5 OF 5

SIZE C

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