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PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: 0340801002
Status: Active
Overview: mx150_sealed_connector_system
Description: MX150™ Male Cable Seal Terminal, Tin (Sn) Plating, 18-20 AWG, Left Reel Payoff, Contact Material Thickness 0.30mm (.012")

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



Series image - Reference only

General

Product Family	Crimp Terminals
Series	34080
Comments	Left Reel Payoff
Crimp Quality Equipment	Yes
Overview	mx150_sealed_connector_system
Product Name	MX150™

Physical

Gender	Male
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	2.90mm (.114") 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	AU5T-14421-AA, SD-34080-001

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
34080Series

Mates With
34083 MX150™ Female Cable Seal Terminal

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 #**

Hand Crimp Tool For MX150 Cable Seal Crimp Terminals	0638199200
Fine Adjust Applicator for MX150™ Cable Seal Crimp Terminals	0639017300

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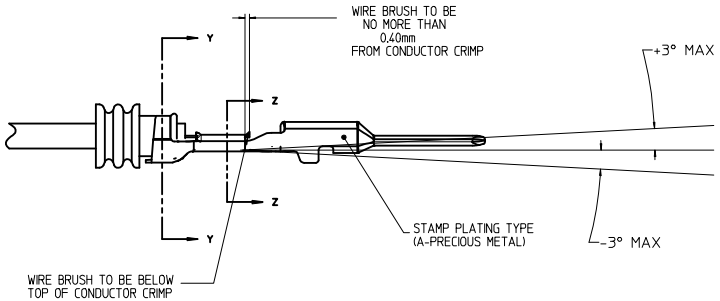
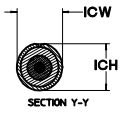
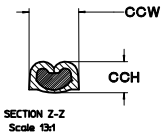
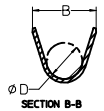


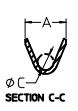
CRIMP INFORMATION

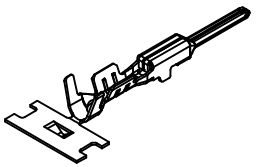
SEE TABLE 1 SHEET 2

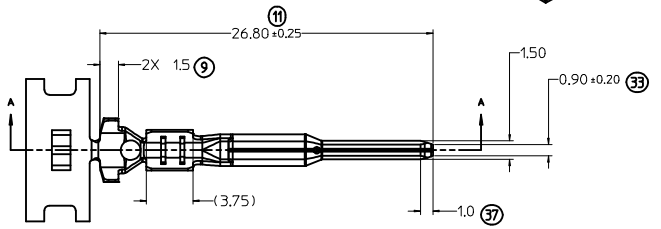


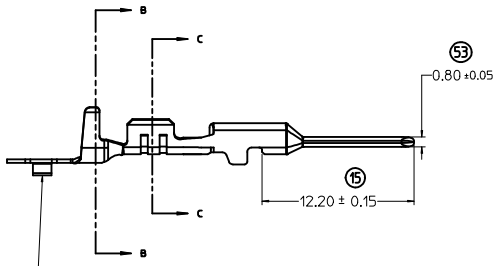




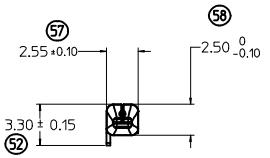




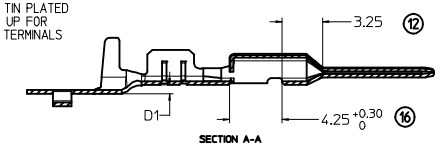


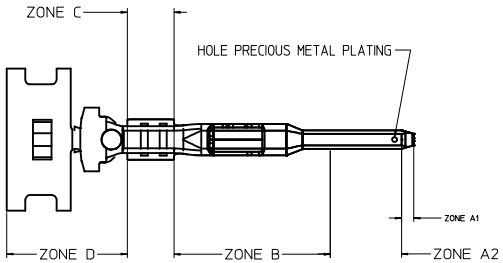


CARRIER BUMP DIRECTION
POINTS DOWN FOR TIN PLATED
TERMINALS POINTS UP FOR
PRECIOUS PLATED TERMINALS

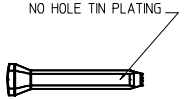


SEE TABLE 2 ON SHEET 3 FOR
CHARTED DIM.

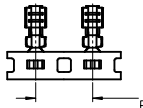




PRECIOUS METAL PLATED BLADE



TIN PLATED BLADE



B3

NOTES: (UNLESS OTHERWISE SPECIFIED)

1. MATING TERMINAL SHOWN ON SD-34083-002
2. MATERIAL: ASTM B422, UNS C19025, HR04
   THICKNESS: 0.30 mm ±0.01
   TEMPER: FULL HARD (REF)
   TENSILE: 496 MIN MPA
3. MEETS PERFORMANCE SPECIFICATION FOR CABLE TO TERMINAL ELECTRICAL CRIMPS PER SAE/USCAR-21 (2/2004)
4. MEETS PERFORMANCE STANDARD FOR AUTOMOTIVE ELECTRICAL CONNECTOR SYSTEMS FOR SAE/USCAR-2, REV. 4 (TEMP CLASS 3) (5/2004)
5. MEETS ELECTRICAL CONNECTION SYSTEM DESIGN SPECIFICATION (SDS) REV.14 (01/2007)
6. MEETS FIELD CORRELATED LIFE TEST (FCLT) PER SAE/USCAR-20 (6/2004)
7. REFERENCE FORD CAVITY SPECIFICATON 97BG-14421-ADA,REV. E
8. INSERTION FORCE WITH CORRESPONDING FEMALE TERMINAL:
   AVG. FORCE 3.1 N TIN (REFRENCE)
   TBD GOLD & SILVER (REFRENCE)
9. REFERENCE CRIMP SPECIFICATION (CS-34080-001) FOR ADDITIONAL INFORMATION.
10. REFERENCE PK-31300-516 FOR REEL DIRECTION

PLATING NOTES:

1. PRECIOUS METAL PLATED TERMINAL:

1.1 GOLD PLATING

1.1.1 UNDERPLATE: OVERALL ELECTRODEPOSITED DUCTILE SULFAMATE NICKEL THICKNESS 1.25 - 2.25 MICROMETERS

1.1.2 CONTACT ZONE A2: ELECTRODEPOSITED GOLD THICKNESS 0.76 MICROMETER MINIMUM

1.1.3 ZONE A1: REDUCED GOLD THICKNESS FROM ZONE A2 IS PERMITTED ZONE A1 SHALL BE COMPLETELY COVERED WITH NICKEL TO PREVENT EXPOSED BASE METAL

1.1.4 ZONE B: REDUCED GOLD THICKNESS FROM ZONE A2 AND REDUCED TIN THICKNESS FROM ZONE C IS PERMITTED ZONE B SHALL BE COMPLETELY COVERED WITH NICKEL TO PREVENT EXPOSED BASE METAL

1.1.5 ZONE C: TIN PLATING: ELECTRODEPOSITED TIN (100% TIN), MATTE FINISH THICKNESS 2.50 - 4.00 MICROMETERS

1.1.6 ZONE D: REDICED TIN THICKNESS FROM ZONE C IS PERMITTED ZONE D SHALL BE COMPLETELY COVERED WITH NICKEL TO PREVENT EXPOSED BASE METAL

1.2 SILVER PLATING

1.2.1 UNDERPLATE: OVERALL ELECTRODEPOSITED DUCTILE SULFAMATE NICKLE 1.25 - 2.25 MICROMETERS THICK

1.2.2 ZONE A2: ELECTRODEPOSITED PURE SILVER (0.5 PERCENT MAX IMPURITIES) SEMI-BRIGHT FINISH 1.9 - 3.3 MICROMETERS THICK OVER NICKEL

1.2.3 ANTI-TARNISH TREATMENT TO SILVER ZONES: EVABRITE S

1.2.4 ZONE A1: REDUCED SILVER PLATING THICKNESS FROM ZONE A2 IS PERMITTED OVER NICKEL

1.2.5 ZONE B: REDUCED SILVER PLATING THICKNESS FROM ZONE A2 AND REDUCED TIN PLATING THICKNESS FROM ZONE C IS PERMITTED OVER NICKEL

1.2.6 ZONE C: ELECTRODEPOSITED TIN (100% TIN) MATTE FINISH 2.5 - 4.00 MICROMETERS THICK OVER NICKEL

1.2.7 ZONE D: REDUCED TIN PLATING THICKNESS FROM ZONE C IS PERMITTED OVER NICKEL

2. TIN PLATING

2.1 UNDERPLATE: ADVANCED BARRIER LAYER THICKNESS 0.25 - 1.00 MICROMETERS

2.2 TIN LAYER: ELECTRODEPOSITED REFLOW TIN (100% TIN) THICKNESS 0.50 - 1.00 MICROMETERS

LTRS.	REVISIONS			
ORIGINATOR	CHECKER	ENGR APP	MAIL APP	

RELEASED

A AELE-E11776560-199
DATE: 20080708

KFERGUSON | ADHIR | GLEECE

B1 ADD GOLD AND SILVER PART NUMBERS TO TABLES 1 AND 2
RELEASED:
BU5T-14421-AA
BU5T-14421-BA
BU5T-14421-CA
BU5T-14421-DA
BU5T-14421-EA
BU5T-14421-FA

B2 MOVE CRIMP TOOL INFORMATION AND TABLE 2 ON SHEET 3

B3 ADD GOLD AND SILVER PLATING NOTES
AELE-E-11776560-276
DATE: 20090610

KFERGUSON | ADHIR | GLEECE

FORD PART NO.
AU5T-14421-AA
AU5T-14421-BA
AU5T-14421-CA
BU5T-14421-AA
BU5T-14421-BA
BU5T-14421-CA
BU5T-14421-DA
BU5T-14421-EA
BU5T-14421-FA

REFERENCE —

PART MUST COMPLY WITH MATERIAL SPECIFICATION WSS-M99P9999-A1 TO HELP SAFEGUARD HEALTH, SAFETY AND THE ENVIRONMENT.

DRAFTED IN ACCORDANCE WITH FAO ENGINEERING DRAFTING STANDARD CURRENT AT INITIAL RELEASE

3RD ANGLE PROJ

DIMENSIONS IN MILLIMETERS

CAD TYPE	CAD LOC.	CAD FILE
		IB MASTER

OPER. NO.	UNIT	DRAWING
		AU5T-14421-AA

DESIGN	DETAIL	TITLE	SHT 1 OF 3
KFERGUSON	—	TERMINAL WIRE SNAP ON MALE	
CHECKED	SAFETY		
BNOSER			
SCALE 7:1	DATE 2009/07/09	DIVISION	
		PLANT	

DRW SIZE A2/E

LTRS.	REVISIONS			
ORIGINATOR	CHECKER	ENGR APP	MATL APP	

TABLE 1 – TERMINAL CRIMP DIMENSION REFERENCE TABLE

FORD PART NO.	SUPPLIER PART NO.		PLATING	WIRE SIZE (AWG)	SPECIFICATION WIRE	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	FORD CABLE SEAL PART NO.
	RIGHT PAYOFF	LEFT PAYOFF								
AU5T-14421-CA	34080-0001	34080-1001	TIN	14	M1L-123A	1.65	2.45	3.95	3.65	XW4T-14603-MA
					M1L-135A1	1.65	2.45	3.80	3.65	XW4T-14603-FA
				16	M1L-123A	1.35	2.45	3.80	3.65	XW4T-14603-FA
AU5T-14421-BA	34080-0002	34080-1002	TIN	18	M1L-123A	1.25	2.15	3.70	3.55	XW4T-14603-AA
				20	M1L-123A	1.15	2.15	3.60	3.55	XW4T-14603-AA
AU5T-14421-AA	34080-0003	34080-1003	TIN	22	M1L-123A	1.00	1.60	3.50	3.45	97BG-10C930-SBA
AU5T-14421-CA	34080-0001	34080-1001	TIN	2.00mm²	JASO D 611(AVSS)	1.60	2.45	3.95	3.65	XW4T-14603-MA
AU5T-14421-CA	34080-0001	34080-1001	TIN	1.50mm²	M1L-126A1	1.40	2.45	3.80	3.65	XW4T-14603-FA
AU5T-14421-BA	34080-0002	34080-1002	TIN	1.00mm²	M1L-126A1	1.30	2.15	3.70	3.55	XW4T-14603-AA
				0.75mm²	M1L-126A1	1.25	2.15	3.60	3.55	XW4T-14603-AA
AU5T-14421-AA	34080-0003	34080-1003	TIN	0.50mm²	M1L-126A1	1.10	1.60	3.50	3.45	97BG-10C930-SBA
					JASO D 611(AVSS)	1.10	1.60	3.50	3.45	97BG-10C930-SBA
BU5T-14421-DA	34080-0102	34080-1102	GOLD	14	M1L-123A	1.65	2.45	3.95	3.65	XW4T-14603-MA
					M1L-135A1	1.65	2.45	3.80	3.65	XW4T-14603-FA
				16	M1L-123A	1.35	2.45	3.80	3.65	XW4T-14603-FA
BU5T-14421-EA	34080-0104	34080-1104	GOLD	18	M1L-123A	1.25	2.15	3.70	3.55	XW4T-14603-AA
				20	M1L-123A	1.15	2.15	3.60	3.55	XW4T-14603-AA
BU5T-14421-FA	34080-0106	34080-1106	GOLD	22	M1L-123A	1.00	1.60	3.50	3.45	97BG-10C930-SBA
BU5T-14421-DA	34080-0102	34080-1102	GOLD	2.00mm²	JASO D 611(AVSS)	1.60	2.45	3.95	3.65	XW4T-14603-MA
BU5T-14421-DA	34080-0102	34080-1102	GOLD	1.50mm²	M1L-126A1	1.40	2.45	3.80	3.65	XW4T-14603-FA
BU5T-14421-EA	34080-0104	34080-1104	GOLD	1.00mm²	M1L-126A1	1.30	2.15	3.70	3.55	XW4T-14603-AA
				0.75mm²	M1L-126A1	1.25	2.15	3.60	3.55	XW4T-14603-AA
BU5T-14421-FA	34080-0106	34080-1106	GOLD	0.50mm²	M1L-126A1	1.10	1.60	3.50	3.45	97BG-10C930-SBA
					JASO D 611(AVSS)	1.10	1.60	3.50	3.45	97BG-10C930-SBA
BU5T-14421-AA	34080-0202	34080-1202	SILVER	14	M1L-123A	1.65	2.45	3.95	3.65	XW4T-14603-MA
					M1L-135A1	1.65	2.45	3.80	3.65	XW4T-14603-FA
				16	M1L-123A	1.35	2.45	3.80	3.65	XW4T-14603-FA
BU5T-14421-BA	34080-0204	34080-1204	SILVER	18	M1L-123A	1.25	2.15	3.70	3.55	XW4T-14603-AA
				20	M1L-123A	1.15	2.15	3.60	3.55	XW4T-14603-AA
BU5T-14421-CA	34080-0206	34080-1206	SILVER	22	M1L-123A	1.00	1.60	3.50	3.45	97BG-10C930-SBA
BU5T-14421-AA	34080-0202	34080-1202	SILVER	2.00mm²	JASO D 611(AVSS)	1.60	2.45	3.95	3.65	XW4T-14603-MA
BU5T-14421-AA	34080-0202	34080-1202	SILVER	1.50mm²	M1L-126A1	1.40	2.45	3.80	3.65	XW4T-14603-FA
BU5T-14421-BA	34080-0204	34080-1204	SILVER	1.00mm²	M1L-126A1	1.30	2.15	3.70	3.55	XW4T-14603-AA
				0.75mm²	M1L-126A1	1.25	2.15	3.60	3.55	XW4T-14603-AA
BU5T-14421-CA	34080-0206	34080-1206	SILVER	0.50mm²	M1L-126A1	1.10	1.60	3.50	3.45	97BG-10C930-SBA
					JASO D 611(AVSS)	1.10	1.60	3.50	3.45	97BG-10C930-SBA

B1

REFERENCE —

PART MUST COMPLY WITH MATERIAL SPECIFICATION WSS-M99P9999-A1
TO HELP SAFEGUARD HEALTH, SAFETY AND THE ENVIRONMENT.
DRAFTED IN ACCORDANCE WITH FAO ENGINEERING DRAFTING STANDARD CURRENT AT INITIAL RELEASE
3RD ANGLE PROJ
DIMENSIONS IN MILLIMETERS

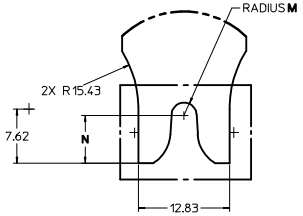
CAD TYPE	CAD LOC.	CAD FILE	
			IS MASTER
OPER. NO.	UNIT	DRAWING	AU5T-14421-AA
DESIGN KFERGUSON	DETAIL —	TITLE	SHT 2 OF 3
CHECKED SMOSER	SAFETY	TERMINAL WIRE SNAP ON MALE	
SCALE 1:1	DATE 2009/07/09	DIVISION PLANT	

DRW SIZE A2/E

CRIMP TOOL INFORMATION

SEE TABLE 2 FOR TABLED DIMENSIONS

INSULATOR PUNCH



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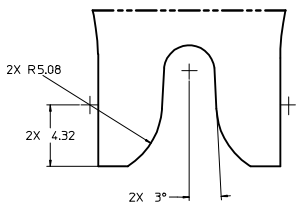
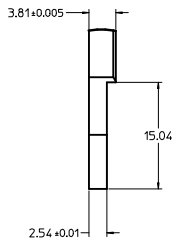
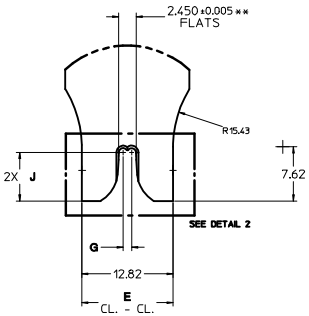


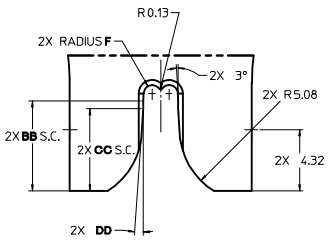
RIGHT VIEW



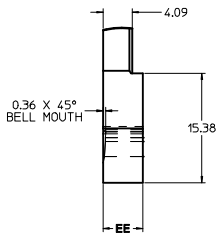
CONDUCTOR PUNCH



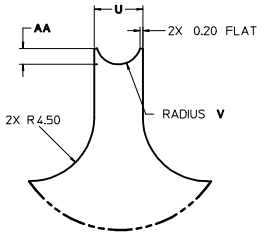
DETAIL 2



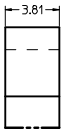
RIGHT VIEW

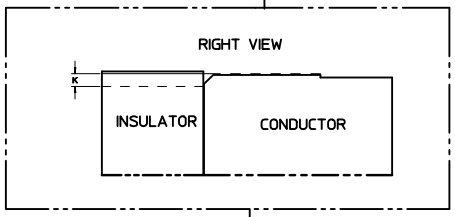


INSULATOR ANVIL



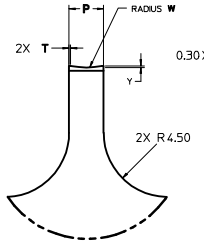
RIGHT VIEW



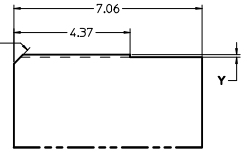


** 14-16 AWG. 1.5mm² & 2.0mm² ONLY

CONDUCTOR ANVIL



RIGHT VIEW



B2

TABLE 2 – TERMINAL GRIP/CRIMP TOOL DIMENSION REFERENCE TABLE

SUPPLIER PART NUMBER		FORD PART NO.	PLATING (STAMPING)	WIRE APPLICATION		A	B	C	D	D1	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	±0.10	±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	±¼°	±0.10
34080-0001	34080-1001	AU5T-14421-CA	TIN	14	2.0	3.6	5.00	1.7	2.90	0.90	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	0.90	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
34080-0002	34080-1002	AU5T-14421-BA	TIN	18	1.0	3.3	5.00	1.3	2.90	0.70	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	0.70	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
34080-0003	34080-1003	AU5T-14421-AA	TIN	22	0.5	2.5	4.85	0.9	2.90	0.55	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
34080-0102	34080-1102	BU5T-14421-DA	GOLD	14	2.0	3.6	5.00	1.7	2.90	0.90	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	0.90	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
34080-0104	34080-1104	BU5T-14421-EA	GOLD	18	1.0	3.3	5.00	1.3	2.90	0.70	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	0.70	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
34080-0106	34080-1106	BU5T-14421-FA	GOLD	22	0.5	2.5	4.85	0.9	2.90	0.55	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
34080-0202	34080-1202	BU5T-14421-AA	SILVER	14	2.0	3.6	5.00	1.7	2.90	0.90	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	0.90	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
34080-0204	34080-1204	BU5T-14421-BA	SILVER	18	1.0	3.3	5.00	1.3	2.90	0.70	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	0.70	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
34080-0206	34080-1206	BU5T-14421-CA	SILVER	22	0.5	2.5	4.85	0.9	2.90	0.55	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

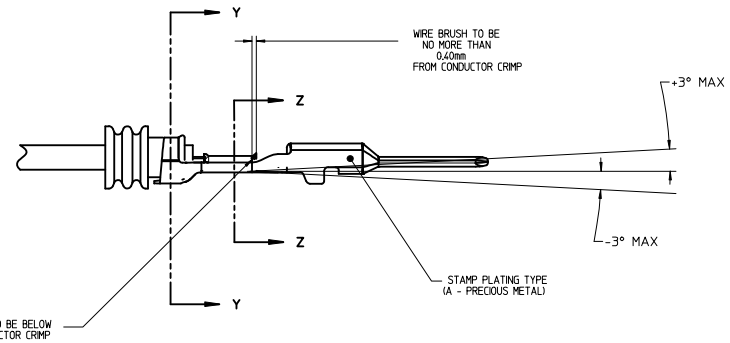
LTRS.	REVISIONS			
ORIGINATOR	CHECKER	ENGR APP	MATL APP	

REFERENCE —

PART MUST COMPLY WITH MATERIAL SPECIFICATION WSS-M99P9999-A1
TO HELP SAFEGUARD HEALTH, SAFETY AND THE ENVIRONMENT.
DRAFTED IN ACCORDANCE WITH FAO ENGINEERING DRAFTING STANDARD CURRENT AT INITIAL RELEASE
3RD ANGLE PROJ
DIMENSIONS IN MILLIMETERS

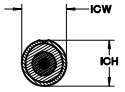
CAD TYPE	CAD LOC.	CAD FILE	
			IB MASTER
OPER. NO.	UNIT	DRAWING	AU5T-14421-AA
DESIGN KPERGUSON	DETAIL —	TITLE	TERMINAL WIRE SNAP ON MALE
CHECKED BMOSER	SAFETY		SHT 3 OF 3
SCALE 1:1	DATE 2009/07/09	DIVISION PLANT	

DRW SIZE A1/E



CRIMP INFORMATION

SEE TABLE 1 SHEET 2



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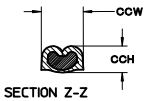

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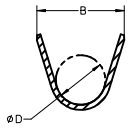

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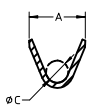

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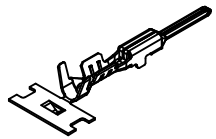
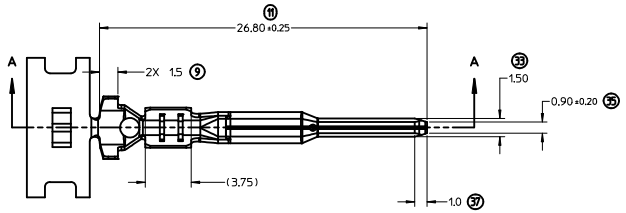
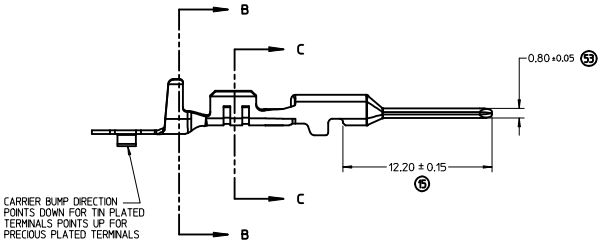
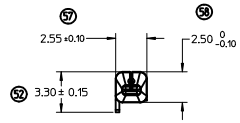
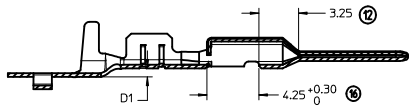




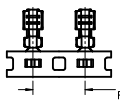
SEE TABLE 2 ON SHEET 3 FOR CHARTED DIM.







SECTION A-A



NOTES: (UNLESS OTHERWISE SPECIFIED)

1. MATING TERMINAL SHOWN ON SD-34083-002
2. MATERIAL: ASTM B422, UNS C19025, HR04
   THICKNESS: 0.30 mm ±0.01
   TEMPER: FULL HARD (REF)
   TENSILE: 496 MIN MPA
3. MEETS PERFORMANCE SPECIFICATION FOR CABLE TO TERMINAL ELECTRICAL CRIMPS PER SAE/USCAR-21 (2/2004)
4. MEETS PERFORMANCE STANDARD FOR AUTOMOTIVE ELECTRICAL CONNECTOR SYSTEMS FOR SAE/USCAR-2, REV. 4 (TEMP CLASS 3) (5/2004)
5. MEETS ELECTRICAL CONNECTION SYSTEM DESIGN SPECIFICATION (SDS) REV.14 (01/2007)
6. MEETS FIELD CORRELATED LIFE TEST (FCLT) PER SAE/USCAR-20 (6/2004)
7. REFERENCE FORD CAVITY SPECIFICATON 97BG-14421-ADA,REV. E
8. INSERTION FORCE WITH CORRESPONDING FEMALE TERMINAL:
   AVG. FORCE 3.1 N TIN (REFRENCE)
   2.7 N GOLD (REFRENCE)
   2.9 N SILVER (REFRENCE)
9. REFERENCE CRIMP SPECIFICATION (CS-34080-001) FOR ADDITIONAL INFORMATION.
10. REFERENCE PK-31300-516 FOR REEL DIRECTION

PLATING NOTES:

1. PRECIOUS METAL PLATED TERMINAL:

1.1 GOLD PLATING

1.1.1 UNDERPLATE: OVERALL ELECTRODEPOSITED DUCTILE SULFAMATE NICKEL THICKNESS 1.25 - 2.25 MICROMETERS

1.2.1 CONTACT ZONE A2: ELECTRODEPOSITED GOLD THICKNESS 0.76 MICROMETER MINIMUM

1.1.3 ZONE A1: REDUCED GOLD THICKNESS FROM ZONE A2 IS PERMITTED ZONE A1 SHALL BE COMPLETELY COVERED WITH NICKEL TO PREVENT EXPOSED BASE METAL

1.1.4 ZONE B: REDUCED GOLD THICKNESS FROM ZONE A2 AND REDUCED TIN THICKNESS FROM ZONE C IS PERMITTED ZONE B SHALL BE COMPLETELY COVERED WITH NICKEL TO PREVENT EXPOSED BASE METAL

1.1.5 ZONE C: TIN PLATING: ELECTRODEPOSITED TIN (100% TIN), MATTE FINISH THICKNESS 2.50 - 4.00 MICROMETERS

1.1.6 ZONE D: REDICED TIN THICKNESS FROM ZONE C IS PERMITTED ZONE D SHALL BE COMPLETELY COVERED WITH NICKEL TO PREVENT EXPOSED BASE METAL

1.2 SILVER PLATING

1.2.1 UNDERPLATE: OVERALL ELECTRODEPOSITED DUCTILE SULFAMATE NICKLE 1.25 - 2.25 MICROMETERS THICK

1.2.2 ZONE A2: ELECTRODEPOSITED PURE SILVER (0.5 PERCENT MAX IMPURITIES) SEMI-BRIGHT FINISH 1.9 - 3.3 MICROMETERS THICK OVER NICKEL

1.2.3 ANTI-TARNISH TREATMENT TO SILVER ZONES: EVABRITE S

1.2.4 ZONE A1: REDUCED SILVER PLATING THICKNESS FROM ZONE A2 IS PERMITTED OVER NICKEL

1.2.5 ZONE B: REDUCED SILVER PLATING THICKNESS FROM ZONE A2 AND REDUCED TIN PLATING THICKNESS FROM ZONE C IS PERMITTED OVER NICKEL

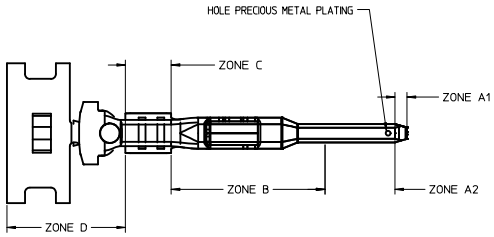
1.2.6 ZONE C: ELECTRODEPOSITED TIN (100% TIN) MATTE FINISH 2.5 - 4.00 MICROMETERS THICK OVER NICKEL

1.2.7 ZONE D: REDUCED TIN PLATING THICKNESS FROM ZONE C IS PERMITTED OVER NICKEL

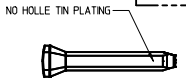
2. TIN PLATING

2.1 UNDERPLATE: ADVANCED BARRIER LAYER THICKNESS 0.25 - 1.00 MICROMETERS

2.2 TIN LAYER: ELECTRODEPOSITED REFLOW TIN (100% TIN) THICKNESS 0.50 - 1.00 MICROMETERS



PRECIOUS METAL PLATED BLADE



TIN PLATED BLADE

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

B2

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: 5:1
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY: K.FERGUSON 2008/06/09
CHECKED BY: A. DHIR 2008/06/09
APPROVED BY: B. MOSER 2008/09/06

TITLE: MX 150 BLADE CABLE SEAL

molex MOLEX INCORPORATED

MATERIAL NO.: SEE TABLE
DOCUMENT NO.: SD-34080-001
SHEET NO.: 1 OF 3
SIZE: D

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)	SPECIFICATION WIRE	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	QSR CABLE SEAL PART NO.	YAZAKI CABLE SEAL PART NO.
RIGHT PAYOFF	LEFT PAYOFF									
34080-0001	34080-1001	TIN	14	M1L-123A	1.65	2.45	3.95	3.65	-	7158-3033-40
				M1L-135A1	1.65	2.45	3.80	3.65	E-1644-02	-
			16	M1L-123A	1.35	2.45	3.80	3.65	E-1644-02	-
34080-0002	34080-1002	TIN	18	M1L-123A	1.25	2.15	3.70	3.55	E-1644-00	-
				SAE J1128 (GXL)	1.25	2.15	3.90	3.55	E-1644-02	-
			20	M1L-123A	1.15	2.15	3.60	3.55	E-1644-00	-
				SAE J1128 (GXL)	1.15	2.15	3.80	3.55	E-1644-02	-
34080-0003	34080-1003	TIN	22	M1L-123A	1.00	1.60	3.50	3.45	E-1644-01	-
34080-0001	34080-1001	TIN	2.00mm²	JASO D 611(AVSS)	1.60	2.45	3.95	3.65	-	7158-3033-40
34080-0001	34080-1001	TIN	1.50mm²	M1L-126A1	1.40	2.45	3.80	3.65	E-1644-02	-
34080-0002	34080-1002	TIN	1.00mm²	M1L-126A1	1.30	2.15	3.70	3.55	E-1644-00	-
			0.75mm²	M1L-126A1	1.25	2.15	3.60	3.55	E-1644-00	-
34080-0003	34080-1003	TIN	0.50mm²	M1L-126A1	1.10	1.60	3.50	3.45	E-1644-01	-
				JASO D 611(AVSS)	1.10	1.60	3.50	3.45	E-1644-01	-
34080-0102	34080-1102	GOLD	14	M1L-123A	1.65	2.45	3.95	3.65	-	7158-3033-40
				M1L-135A1	1.65	2.45	3.80	3.65	E-1644-02	-
			16	M1L-123A	1.35	2.45	3.80	3.65	E-1644-02	-
34080-0104	34080-1104	GOLD	18	M1L-123A	1.25	2.15	3.70	3.55	E-1644-00	-
				SAE J1128 (GXL)	1.25	2.15	3.90	3.55	E-1644-02	-
			20	M1L-123A	1.15	2.15	3.60	3.55	E-1644-00	-
				SAE J1128 (GXL)	1.15	2.15	3.80	3.55	E-1644-02	-
34080-0106	34080-1106	GOLD	22	M1L-123A	1.00	1.60	3.50	3.45	E-1644-01	-
34080-0102	34080-1102	GOLD	2.00mm²	JASO D 611(AVSS)	1.60	2.45	3.95	3.65	-	7158-3033-40
34080-0102	34080-1102	GOLD	1.50mm²	M1L-126A1	1.40	2.45	3.80	3.65	E-1644-02	-
34080-0104	34080-1104	GOLD	1.00mm²	M1L-126A1	1.30	2.15	3.70	3.55	E-1644-00	-
			0.75mm²	M1L-126A1	1.25	2.15	3.60	3.55	E-1644-00	-
34080-0106	34080-1106	GOLD	0.50mm²	M1L-126A1	1.10	1.60	3.50	3.45	E-1644-01	-
				JASO D 611(AVSS)	1.10	1.60	3.50	3.45	E-1644-01	-
34080-0202	34080-1202	SILVER	14	M1L-123A	1.65	2.45	3.95	3.65	-	7158-3033-40
				M1L-135A1	1.65	2.45	3.80	3.65	E-1644-02	-
			16	M1L-123A	1.35	2.45	3.80	3.65	E-1644-02	-
34080-0204	34080-1204	SILVER	18	M1L-123A	1.25	2.15	3.70	3.55	E-1644-00	-
				SAE J1128 (GXL)	1.25	2.15	3.90	3.55	E-1644-02	-
			20	M1L-123A	1.15	2.15	3.60	3.55	E-1644-00	-
				SAE J1128 (GXL)	1.15	2.15	3.80	3.55	E-1644-02	-
34080-0206	34080-1206	SILVER	22	M1L-123A	1.00	1.60	3.50	3.45	E-1644-01	-
34080-0202	34080-1202	SILVER	2.00mm²	JASO D 611(AVSS)	1.60	2.45	3.95	3.65	-	7158-3033-40
34080-0202	34080-1202	SILVER	1.50mm²	M1L-126A1	1.40	2.45	3.80	3.65	E-1644-02	-
34080-0204	34080-1204	SILVER	1.00mm²	M1L-126A1	1.30	2.15	3.70	3.55	E-1644-00	-
			0.75mm²	M1L-126A1	1.25	2.15	3.60	3.55	E-1644-00	-
34080-0206	34080-1206	SILVER	0.50mm²	M1L-126A1	1.10	1.60	3.50	3.45	E-1644-01	-
				JASO D 611(AVSS)	1.10	1.60	3.50	3.45	E-1644-01	-

ENTER DESCRIPTION
EC NO: UAU2010-0419 2009/12/02
DRAWN:KFERGUSON 2009/12/02
CHKD:A.DHIR
APPR:BMOSER 2009/12/02
DESCRIPTION
REV
B2

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: 2008/06/09
CHECKED BY: A. DHIR DATE: 2008/06/09
APPROVED BY: B. MOSER DATE: 2008/09/06
MATERIAL NO.: SEE TABLE

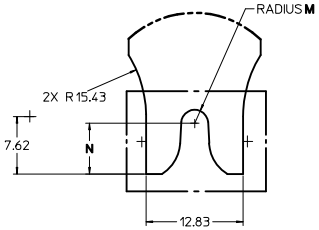
TITLE: MX 150 BLADE CABLE SEAL
MOLEX INCORPORATED
DOCUMENT NO.: SD-34080-001
SHEET NO.: 2 OF 3
SIZE: E

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

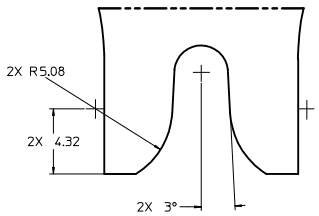
CRIMP TOOL INFORMATION

SEE TABLE 2 FOR TABLED DIMENSIONS

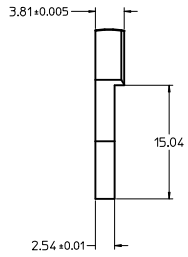
INSULATOR PUNCH



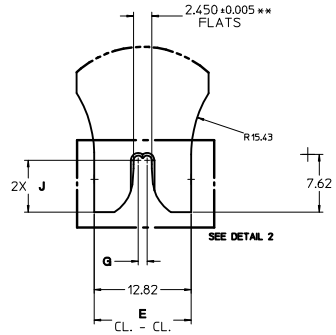
DETAIL 1



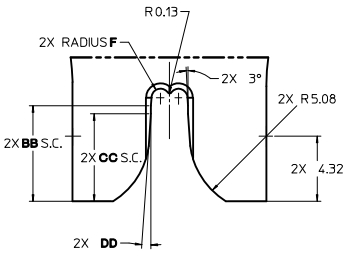
RIGHT VIEW



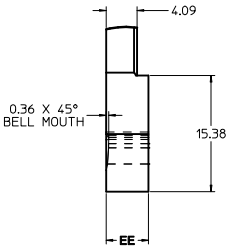
CONDUCTOR PUNCH



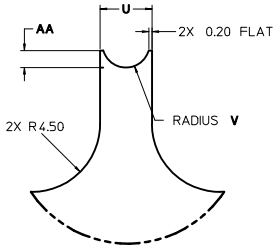
DETAIL 2



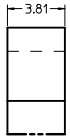
RIGHT VIEW

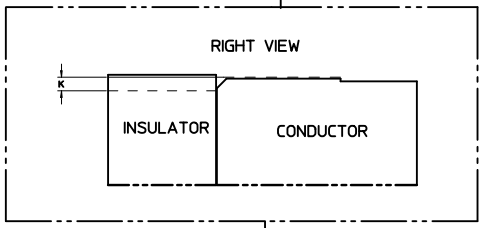


INSULATOR ANVIL



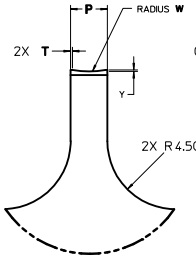
RIGHT VIEW





** 14-16 AWG. 1.5mm² & 2.0mm² ONLY

CONDUCTOR ANVIL



RIGHT VIEW

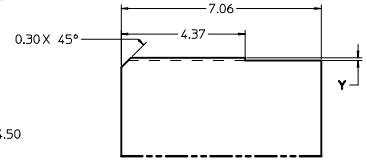


TABLE 2 – TERMINAL GRIP/CRIMP TOOL DIMENSION REFERENCE TABLE

SUPPLIER PART NUMBER		PLATING (STAMPING)	WIRE APPLICATION		A	B	C	D	D1	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	±0.10	±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	±¼°	±0.10
34080-0001	34080-1001	TIN	14	2.0	3.6	5.00	1.7	2.90	0.90	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	0.90	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
34080-0002	34080-1002	TIN	18	1.0	3.3	5.00	1.3	2.90	0.70	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	0.70	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
34080-0003	34080-1003	TIN	22	0.5	2.5	4.85	0.9	2.90	0.55	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
34080-0102	34080-1102	GOLD	14	2.0	3.6	5.00	1.7	2.90	0.90	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	0.90	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
34080-0104	34080-1104	GOLD	18	1.0	3.3	5.00	1.3	2.90	0.70	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	0.70	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
34080-0106	34080-1106	GOLD	22	0.5	2.5	4.85	0.9	2.90	0.55	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
34080-0202	34080-1202	SILVER	14	2.0	3.6	5.00	1.7	2.90	0.90	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	0.90	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
34080-0204	34080-1204	SILVER	18	1.0	3.3	5.00	1.3	2.90	0.70	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	0.70	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
34080-0206	34080-1206	SILVER	22	0.5	2.5	4.85	0.9	2.90	0.55	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
DRAWN:KFERGUSON
CHK'D:A. DHIR
APPR:B.MOSER
DESCRIPTION
REV
B2

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: 2008/06/09
CHECKED BY: A. DHIR DATE: 2008/06/09
APPROVED BY: B. MOSER DATE: 2008/09/06
MATERIAL NO.: SEE TABLE

TITLE: MX 150 BLADE CABLE SEAL
MOLEX INCORPORATED
DOCUMENT NO.: SD-34080-001
SHEET NO.: 3 OF 3
SIZE: E

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