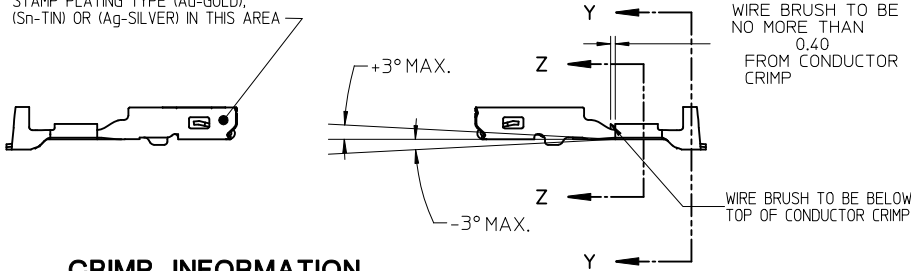
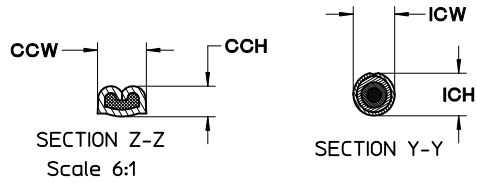


STAMP PLATING TYPE (Au-GOLD),  
(Sn-TIN) OR (Ag-SILVER) IN THIS AREA



**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

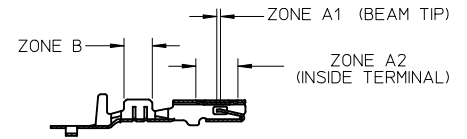
PLATING NOTES:

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

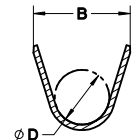
THICKNESS 1 (1.25-2.25 MICROMETERS)  
ELECTRODEPOSITED SULFAMATE DUCTILE NICKEL (BASE LAYER)

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

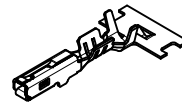
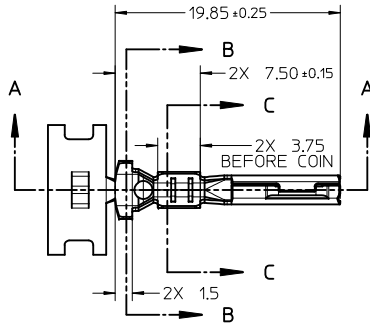
NOTES: (UNLESS OTHERWISE SPECIFIED)

- MATING TERMINAL SHOWN ON MOLEX DRAWING SD-34080-001
- MATERIAL: ASTM B422, UNS C19025, HR04  
THICKNESS: 0.30 mm +0.01  
TEMPER: FULL HARD (REF)  
TENSILE: 496 MIN MPA  
PLATING: SEE PLATING NOTES
- MEETS PERFORMANCE SPECIFICATION FOR CABLE TO TERMINAL  
ELECTRICAL CRIMPS PER SAE/USCAR-21 (8/2001)
- MEETS PERFORMANCE STANDARD FOR AUTOMOTIVE ELECTRICAL  
CONNECTOR SYSTEMS FOR SAE/USCAR-2, REV. 4 (TEMP CLASS 3)  
(4/2001)
- MEETS ELECTRICAL CONNECTION SYSTEM DESIGN SPECIFICATION  
(SDS) REV.11 (5/2002)
- MEETS FIELD CORRELATED LIFE TEST (FCLT) PER  
SAE/USCAR-20 (11/2001)

- INSERTION FORCE WITH INLINE BLADE  
AVG FROM PV TESTING = 3.5 N TIN (REFERENCE)  
3.1 N GOLD (REFERENCE)
- REFERENCE PK-31300-516 FOR REEL DIRECTION
- REFERENCE CS-34083-002 FOR ADDITIONAL  
CRIMP INFORMATION

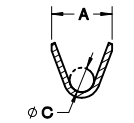


SECTION B-B  
Scale 5:1

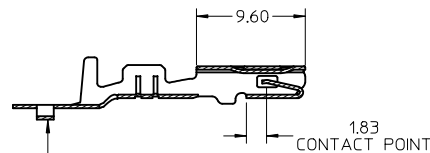


SCALE 2:1

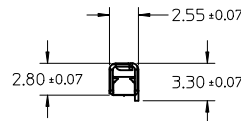
SEE TABLE 2 ON SHEET 3  
FOR CHARTED DIM.



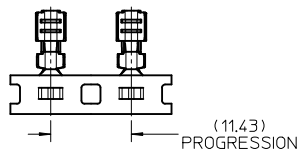
SECTION C-C  
Scale 5:1



SECTION A-A



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



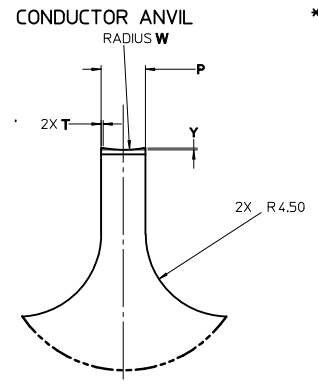
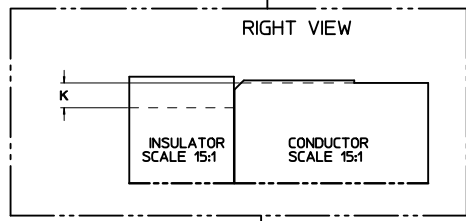
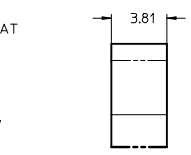
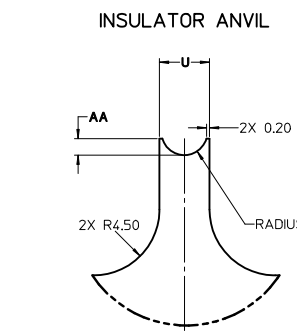
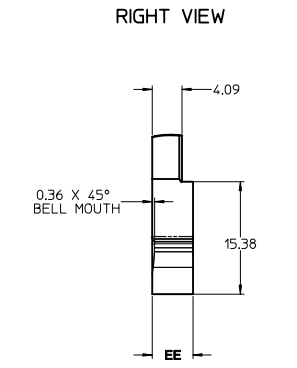
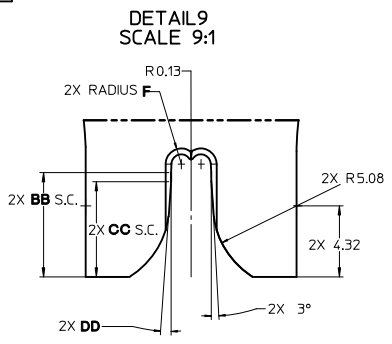
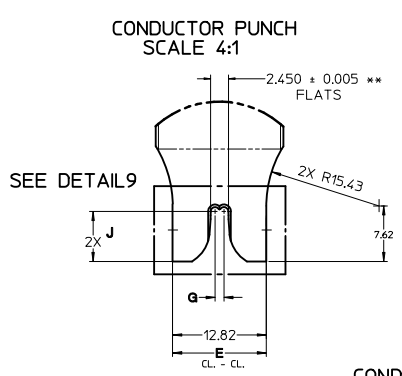
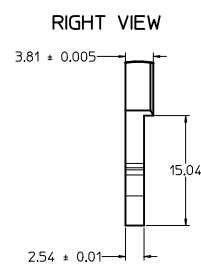
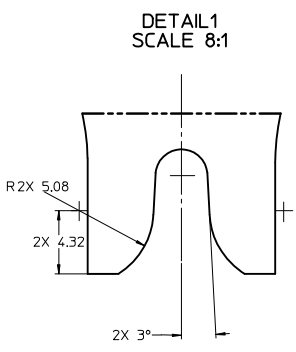
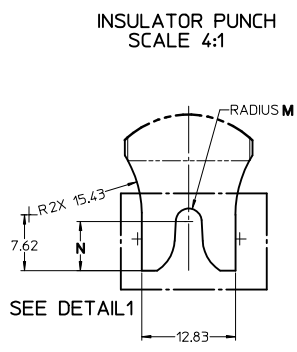
ENTER DESCRIPTION IEC NO: UAU2010-0419 DRAWN BY: DRWINKFERGUSON CHKD BY: DHIR APPR: BMOSER 2009/12/02 2009/12/02	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE MM ONLY	SCALE 3:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION
	▽=0 ▽=0	mm INCH	DRAWN BY DATE K. FERGUSON 4/14/2009	TITLE MX 150 RECEPTACLE CABLE SEAL	MOLEX INCORPORATED	
DESCRIPTION	4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± 0.10 ± --- 1 PLACE ± 0.3 ± ---	CHECKED BY DATE A. DHIR 4/14/2009	APPROVED BY DATE B. MOSER 4/14/2009	DOCUMENT NO. SD-34083-002		
REV: A5	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	ANGULAR ± 3 °	SEE TABLE	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**

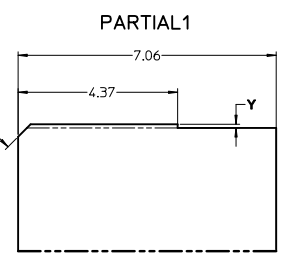
SUPPLIER PART NO.	PLATING	WIRE SIZE (awg)	WIRE SPECIFICATION	CONDUCTOR CCH (SEC Z-Z) ±0.05	CONDUCTOR CCW (SEC Z-Z) ±0.10	INSULATOR ICH (SEC Y-Y) ±0.10	INSULATOR ICW (SEC Y-Y) ±0.10	WIRE PULL FORCE (N)	OSR CABLE SEAL PART NO.	YAZAKI CABLE SEAL PART NO.	
RIGHT PAYOFF	LEFT PAYOFF										
34083-2001	34083-3001	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	-
			18	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	-
			20	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 <sup>2</sup>	JASO D 611(AVSS)	1.60	2.45	3.95	3.65	268	-	7158-3033-40
34083-2001	34083-3001	TIN	1.50mm <sup>2</sup>	MIL-126A1	1.40	2.45	3.80	3.65	257	E-1644-02	-
34083-2002	34083-3002	TIN	1.0mm <sup>2</sup>	MIL-126A1	1.30	2.15	3.70	3.55	211	E-1644-00	-
34083-2002	34083-3002	TIN	0.75mm <sup>2</sup>	MIL-126A1	1.25	2.15	3.60	3.55	142	E-1644-00	-
34083-2003	34083-3003	TIN	0.50mm <sup>2</sup>	MIL-126A1	1.10	1.60	3.50	3.45	111	E-1644-01	-
34083-2003	34083-3003	TIN	0.50mm <sup>2</sup>	JASO D 611(AVSS)	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	-
			18	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	-
			20	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 <sup>2</sup>	JASO D 611(AVSS)	1.60	2.45	3.95	3.65	268	-	7158-3033-40
34081-2003	34081-3003	GOLD	1.50mm <sup>2</sup>	MIL-126A1	1.40	2.45	3.80	3.65	257	E-1644-02	-
34081-2004	34081-3004	GOLD	1.0mm <sup>2</sup>	MIL-126A1	1.30	2.15	3.70	3.55	211	E-1644-00	-
			0.75mm <sup>2</sup>	MIL-126A1	1.25	2.15	3.60	3.55	142	E-1644-00	-
			0.50mm <sup>2</sup>	MIL-126A1	1.10	1.60	3.50	3.45	111	E-1644-01	-
34081-2005	34081-3005	GOLD	0.50mm <sup>2</sup>	JASO D 611(AVSS)	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	-
			18	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	-
			20	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 <sup>2</sup>	JASO D 611(AVSS)	1.60	2.45	3.95	3.65	268	-	7158-3033-40
34081-4001	34081-5001	SILVER	1.50mm <sup>2</sup>	MIL-126A1	1.40	2.45	3.80	3.65	257	E-1644-02	-
34081-4002	34081-5002	SILVER	1.0mm <sup>2</sup>	MIL-126A1	1.30	2.15	3.70	3.55	211	E-1644-00	-
			0.75mm <sup>2</sup>	MIL-126A1	1.25	2.15	3.60	3.55	142	E-1644-00	-
			0.50mm <sup>2</sup>	MIL-126A1	1.10	1.60	3.50	3.45	111	E-1644-01	-
34081-4003	34081-5003	SILVER	0.50mm <sup>2</sup>	JASO D 611(AVSS)	1.10	1.60	3.50	3.45	111	E-1644-01	-

<b>ENTER DESCRIPTION</b> IEC NO. UAU2010-0419 DRAWN BY K. FERGUSON CHECKED BY CHIKKA, DHIR APPROVED BY B. MOSER DATE 2009/12/02 REV 01	<b>QUALITY SYMBOLS</b> ▽=0 ▽=0	<b>GENERAL TOLERANCES (UNLESS SPECIFIED)</b>		<b>DIMENSION STYLE</b> MM ONLY		SCALE	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	
		4 PLACES ± .05 3 PLACES ± .03 2 PLACES ± 0.10 1 PLACE ± 0.3	INCH ± .01 ± .01 ± .01 ± .01	DRAWN BY K. FERGUSON	DATE 4/14/2009	TITLE MX 150 RECEPTACLE CABLE SEAL			
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		APPROVED BY B. MOSER	DATE 4/14/2009	MATERIAL NO. SD-34083-002 DOCUMENT NO. SD-34083-002			
		SIZE D		SEE TABLE		SHEET NO. 2 OF 3			

**CRIMP TOOL INFORMATION**  
SEE TABLE 2 FOR TABLED DIMENSIONS



\*\* 14-16 AWG, 150mm<sup>2</sup> & 2.0mm<sup>2</sup> ONLY



**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 (mm <sup>2</sup> )	+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	±P
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
			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
34081-4001	34081-5001	SILVER	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
			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
34081-4002	34081-5002	SILVER	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
			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

<b>ENTER DESCRIPTION</b> EC NO. 141/2010-04-9 DR. DWAN FERGUSON CH. DA. DHR APPROVED BY A5	QUALITY SYMBOLS 0 1	GENERAL TOLERANCES (UNLESS SPECIFIED) 4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 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 K. FERGUSON DATE 4/14/2009	CHECKED BY A. DHR DATE 4/14/2009	APPROVED BY B. NOSER DATE 4/14/2009	MATERIAL NO. SEE TABLE
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	SIZE E	INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION	DOCUMENT NO. SD-34083-002
	SHEET NO. 3 OF 3	Molex MOLEX INCORPORATED	MX 150 RECEPTACLE CABLE SEAL	SHEET NO. 3 OF 3
	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION	MOLEX INCORPORATED	MX 150 RECEPTACLE CABLE SEAL	SHEET NO. 3 OF 3