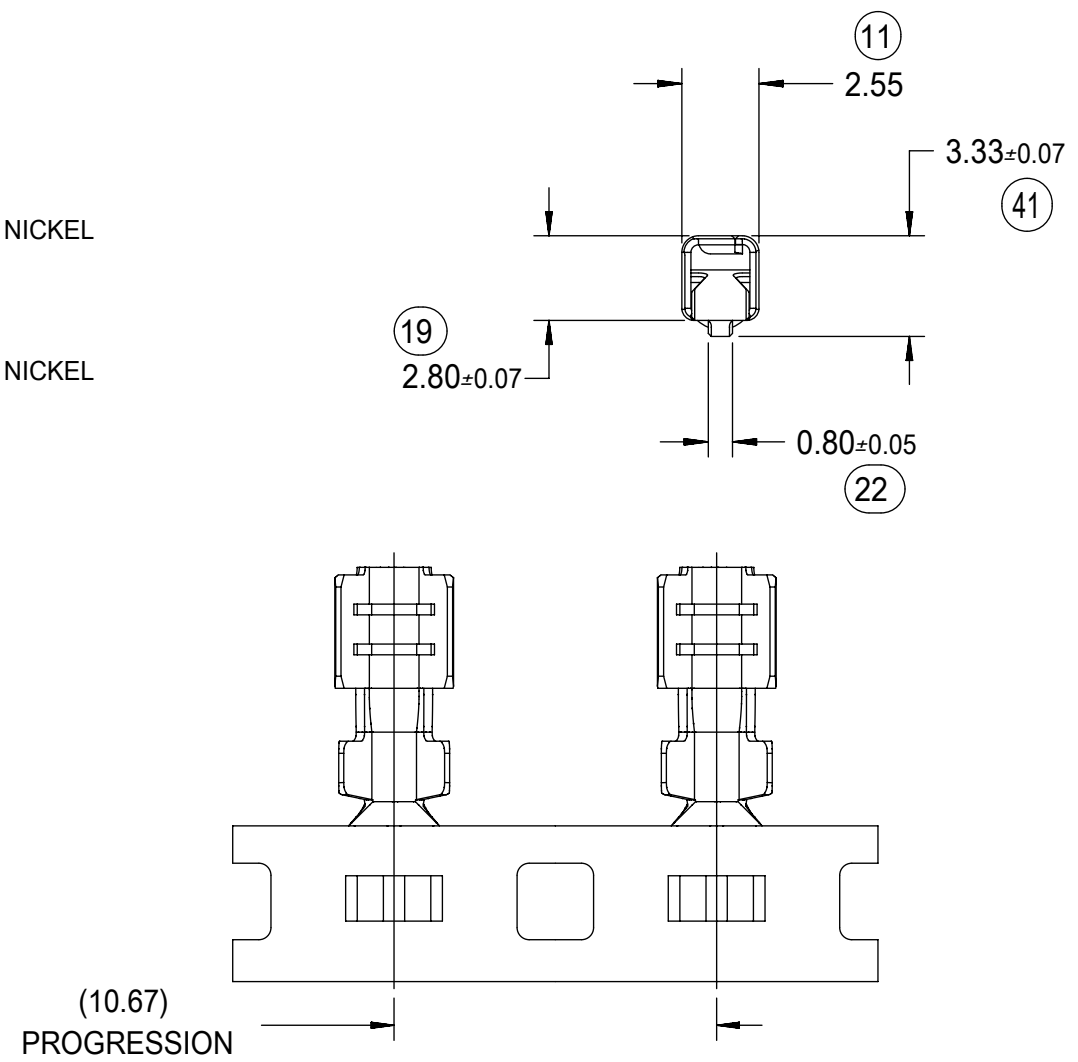


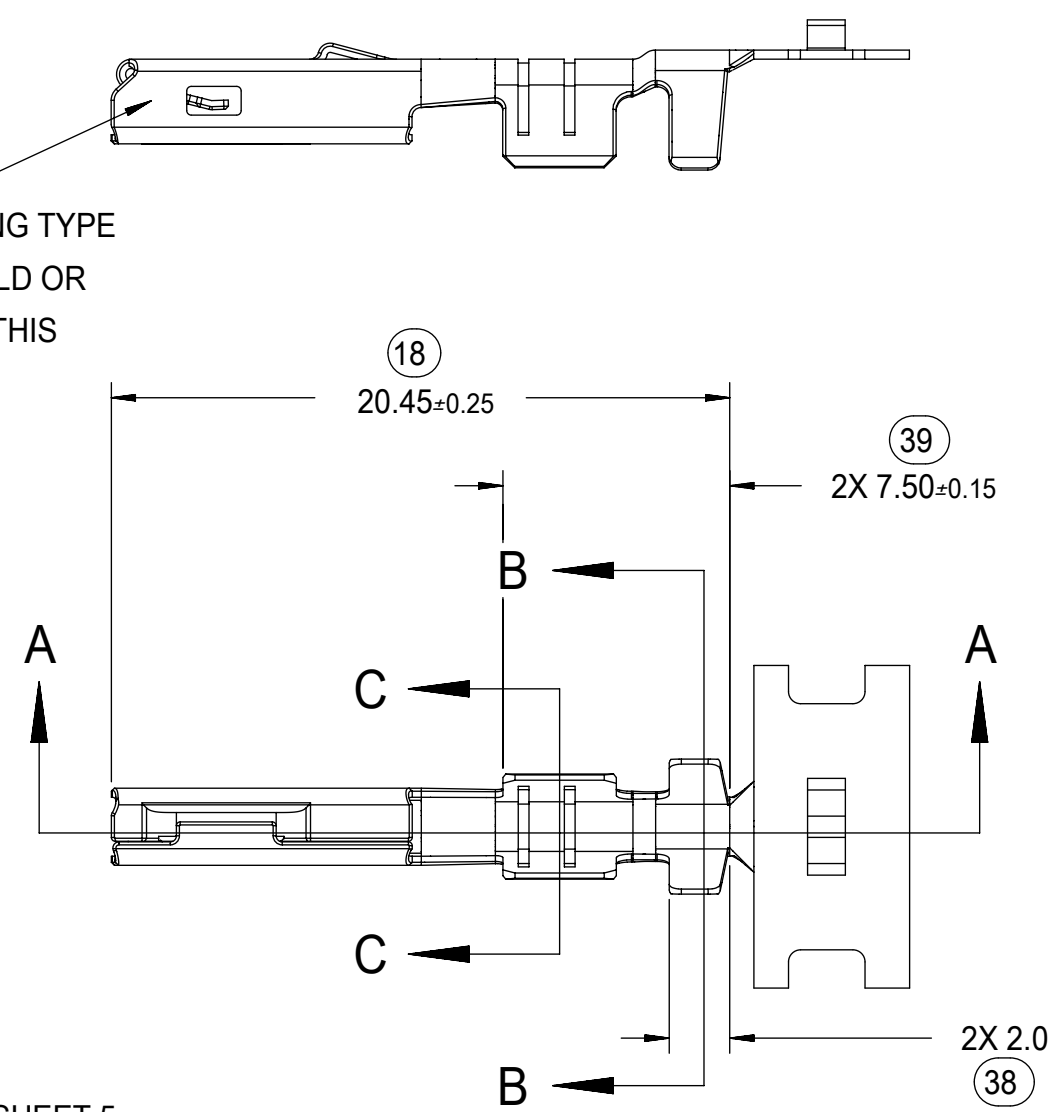
DIMENSIONS FOR LARGE POLARIZATION RIB TERMINAL ONLY

NOTES: (UNLESS OTHERWISE SPECIFIED)

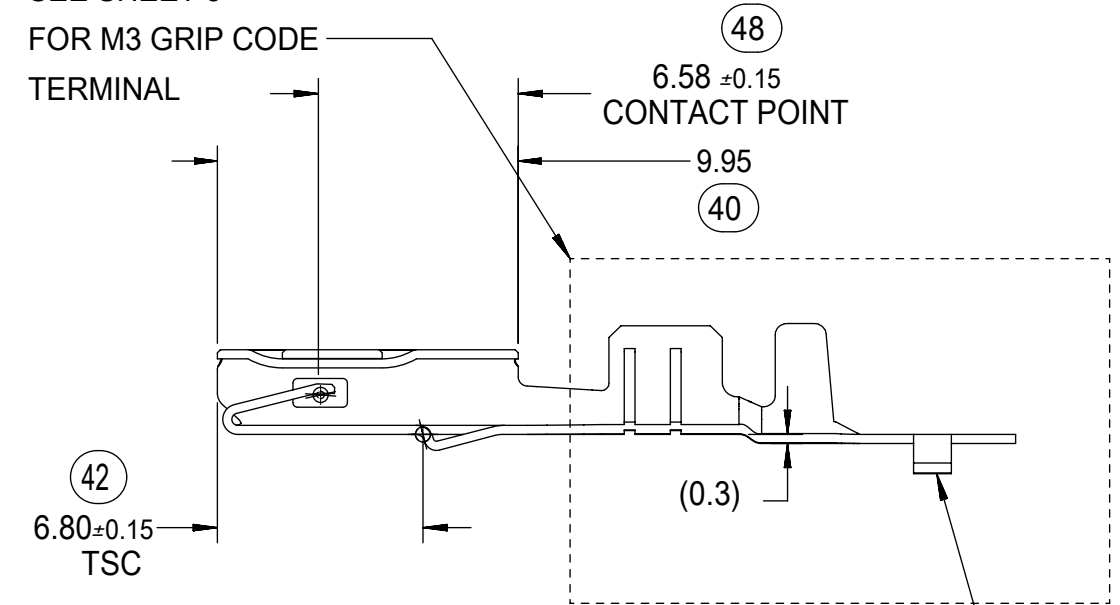
1. MATING TERMINAL SHOWN ON SD-33000-001
2. MATERIAL: ASTM B422, UNS C19025, HR04
THICKNESS: 0.30 mm ±0.01
TEMPER: FULL HARD (REF)
TENSILE: 496 MIN MPA
3. TIN PLATED TERMINAL FINISH:
OVERALL UNDERPLATE ELECTRODEPOSITED NICKEL
OVERALL ELECTRODEPOSITED REFLOW TIN
4. GOLD PLATED TERMINAL FINISH
OVERALL UNDERPLATE ELECTRODEPOSITED DUCTILE SULFAMATE NICKEL
CONTACT AREA - ELECTRODEPOSITED GOLD
GRIP AREA - ELECTRODEPOSITED 100% TIN MATTE FINISH
5. SILVER PLATED TERMINAL FINISH
OVERALL UNDERPLATE ELECTRODEPOSITED DUCTILE SULFAMATE NICKEL
CONTACT AREA - ELECTRODEPOSITED PURE SILVER (0.5% MAX
IMPURITIES) SEMI-BRIGHT FINISH
- SILVER ANTI-TARNISH : EVABRITE
GRIP AREA - ELECTRODEPOSITED 100% TIN MATTE FINISH
6. MEETS PERFORMANCE SPECIFICATION FOR CABLE TO TERMINAL
ELECTRICAL CRIMPS PER SAE/USCAR-21 (8/2001)
7. MEETS PERFORMANCE STANDARD FOR AUTOMOTIVE ELECTRICAL
CONNECTOR SYSTEMS FOR SAE/USCAR-2, REV. 4 (TEMP CLASS 3)
(5/2004)
8. MEETS ELECTRICAL CONNECTION SYSTEM DESIGN SPECIFICATION
(SDS) REV.11 (5/2002)
9. MEETS FIELD CORRELATED LIFE TEST (FCLT) PER
SAE/USCAR-20 (6/2004)
10. MEETS WIRING COMPONENT DESIGN GUIDELINES SAE/USCAR-12
REV 2 (12/2001)
11. TSC ON A DIMENSION TO BE INTERPRETED AS DISTANCE TO
A THEORETICAL SHARP CORNER AS IF THE RADIUS WERE NOT
PRESENT
12. REFERENCE 97BG-14474-AAB FOR LARGE POLARIZATION RIB
CAVITY SPECIFICATION
13. INSERTION FORCE (TIN) AVG. FROM PV TESTING =
3.8N LARGE POLARIZATION RIB
3.5N SMALL POLARIZATION RIB
(REFERENCE)
14. ALL DIMENSIONS EXCEPT (33), (34), (41) & (42) ARE COMMON TO
BOTH SMALL AND LARGE POLARIZATION RIB TERMINALS
15. REFERENCE PK-31300-516 FOR REEL DIRECTION
16. REFERENCE AS-33012-002 FOR CRIMP INFORMATION



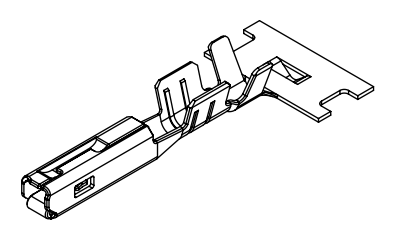
STAMP PLATING TYPE
Sn-TIN, Au-GOLD OR
Ag-SILVER IN THIS
AREA



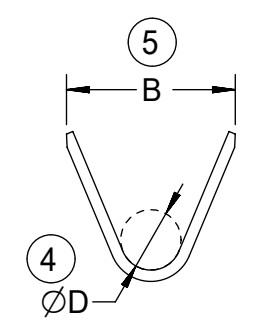
SEE SHEET 5
FOR M3 GRIP CODE
TERMINAL



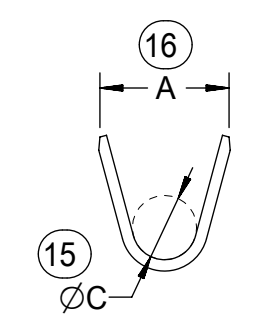
SECTION A-A



SCALE 2:1



SECTION B-B
SCALE 5:1



SECTION C-C
SCALE 5:1

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

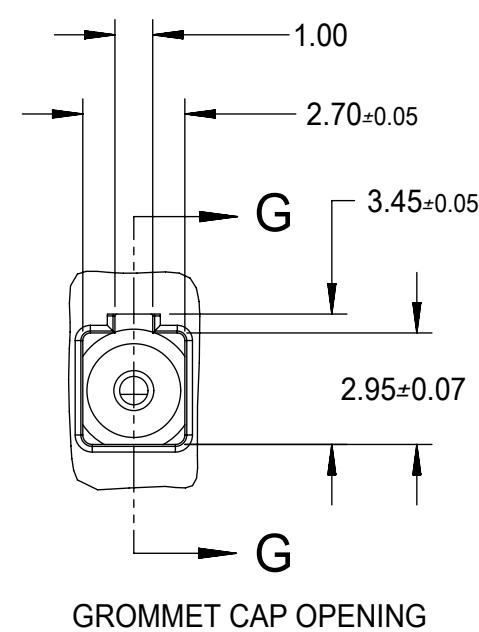
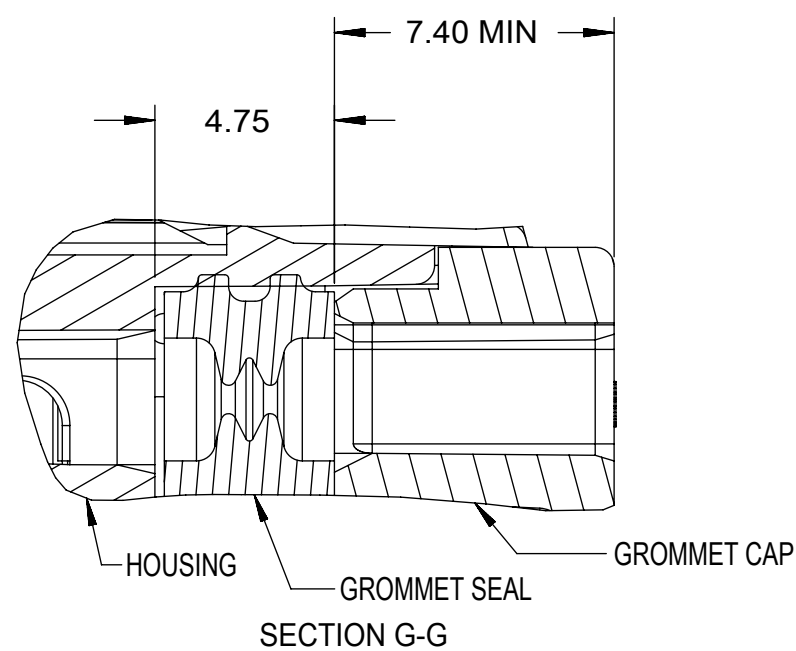
SYMBOLS										THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION									
DIMENSION UNITS		SCALE		CURRENT REV DESC:															
mm		4:1		EC NO: 645050															
GENERAL TOLERANCES (UNLESS SPECIFIED)				DRWN: BSKANTHARAJU 2020/09/03															
ANGULAR TOL ± 3.0°				CHK'D: JCUATACERVAN 2020/09/18															
4 PLACES ±				APPR: JCUATACERVAN 2020/09/18															
3 PLACES ±				INITIAL REVISION:															
2 PLACES ± 0.10				DRWN: LPULLIAM 2005/06/21															
1 PLACE ± 0.3				APPR: BMOSEY 2005/06/22															
0 PLACES ±				DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION		DRAWING		SERIES		DOCUMENT NUMBER		DOC TYPE		DOC PART		REVISION	
C-SIZE		33012		SEE TABLE		GENERAL MARKET		SD-33012-002		PSD		001		D					
SHEET NUMBER		1 OF 5		MATERIAL NUMBER		CUSTOMER		SEE TABLE		GENERAL MARKET		SHEET NUMBER		1 OF 5					

FAMILY	GENDER	SEALING	PLATING	PART NUMBER	PAYOFF DIRECTION	GRIP CODE	WIRE SIZES *	A ±0.30	B ±0.30	C ±0.30	D ±0.30	SPECIAL CHARACTERISTICS
MX150	RECEPTACLE	MAT SEAL	Sn	33012-2001	RIGHT (B)	14	16/14AWG 1.25-2.00mm ²	3.9	4.4	1.7	1.6	HIGH PERFORMANCE Sn
				33012-3001	LEFT (D)							
				33012-2002	RIGHT (B)	18	20/18AWG 0.75-1.00mm ²	3.3	3.1	1.3	1.4	
				33012-3002	LEFT (D)							
				33012-2003	RIGHT (B)	22	22AWG	2.5	2.6	0.9	1.0	
				33012-3003	LEFT (D)							
			33012-2004	RIGHT (B)	M3	0.35-0.50mm ²	2.5	2.7	0.9	1.54 ±0.1		
			33012-3004	LEFT (D)								
			Au	33001-2003	RIGHT (B)	14	16/14AWG 1.25-2.00mm ²	3.9	4.4	1.7	1.6	HIGH PERFORMANCE Au
				33001-3003	LEFT (D)							
				33001-2004	RIGHT (B)	18	20/18AWG 0.75-1.00mm ²	3.3	3.1	1.3	1.4	
				33001-3004	LEFT (D)							
				33001-2005	RIGHT (B)	22	22AWG	2.5	2.6	0.9	1.0	
				33001-3005	LEFT (D)							
			33001-2006	RIGHT (B)	M3	0.35-0.50mm ²	2.5	2.7	0.9	1.54 ±0.1		
			33001-3006	LEFT (D)								
			Ag	33001-4001	RIGHT (B)	14	16/14AWG 1.25-2.00mm ²	3.9	4.4	1.7	1.6	HIGH PERFORMANCE Ag
				33001-5001	LEFT (D)							
33001-4002	RIGHT (B)	18		20/18AWG 0.75-1.00mm ²	3.3	3.1	1.3	1.4				
33001-5002	LEFT (D)											
33001-4003	RIGHT (B)	22		22AWG	2.5	2.6	0.9	1.0				
33001-5003	LEFT (D)											
33001-4005	RIGHT (B)	M3	0.35-0.50mm ²	2.5	2.7	0.9	1.54 ±0.1					
33001-5005	LEFT (D)											

LARGE POLARIZATION RIB - NOT TO BE USED IN MX150 SEALED CONNECTORS

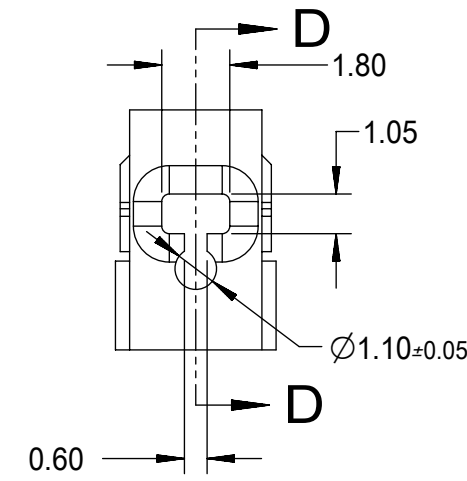
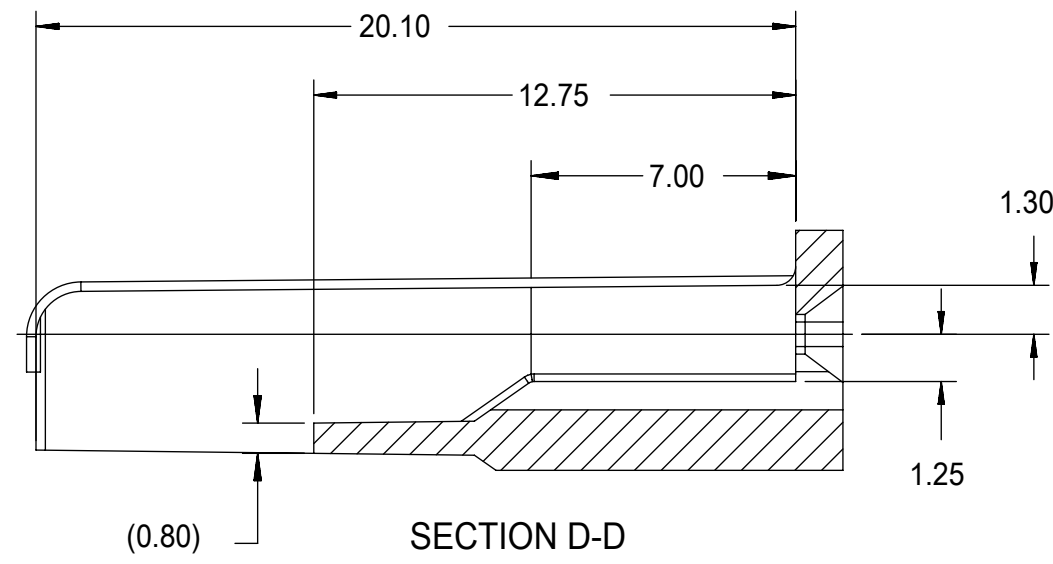
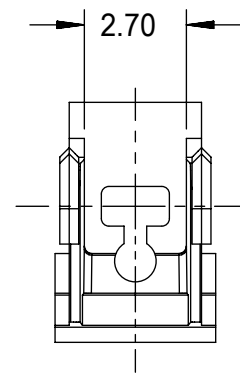
MX150	RECEPTACLE	UNSEALED	Sn	33012-2021	RIGHT (B)	14	16/14AWG 1.25-2.00mm ²	3.9	4.4	1.7	1.6	HIGH PERFORMANCE Sn
				33012-3021	LEFT (D)							
				33012-2022	RIGHT (B)	18	20/18AWG 0.75-1.00mm ²	3.3	3.1	1.3	1.4	
				33012-3022	LEFT (D)							
			33012-2023	RIGHT (B)	22	22AWG 0.35-0.50mm ²	2.5	2.6	0.9	1.0		
			33012-3023	LEFT (D)								
			Au	33001-2021	RIGHT (B)	14	16/14AWG 1.25-2.00mm ²	3.9	4.4	1.7	1.6	HIGH PERFORMANCE Au
				33001-3021	LEFT (D)							
				33001-2022	RIGHT (B)	18	20/18AWG 0.75-1.00mm ²	3.3	3.1	1.3	1.4	
				33001-3022	LEFT (D)							
			33001-2023	RIGHT (B)	22	22AWG 0.35-0.50mm ²	2.5	2.6	0.9	1.0		
			33001-3023	LEFT (D)								
Ag	33001-4021	RIGHT (B)	14	16/14AWG 1.25-2.00mm ²	3.9	4.4	1.7	1.6	HIGH PERFORMANCE Ag			
	33001-5021	LEFT (D)										
	33001-4022	RIGHT (B)	18	20/18AWG 0.75-1.00mm ²	3.3	3.1	1.3	1.4				
	33001-5022	LEFT (D)										
33001-4023	RIGHT (B)	22	22AWG 0.35-0.50mm ²	2.5	2.6	0.9	1.0					
33001-5023	LEFT (D)											

* REFERENCE AS-33012-002 FOR SPECIFIC WIRE TYPES

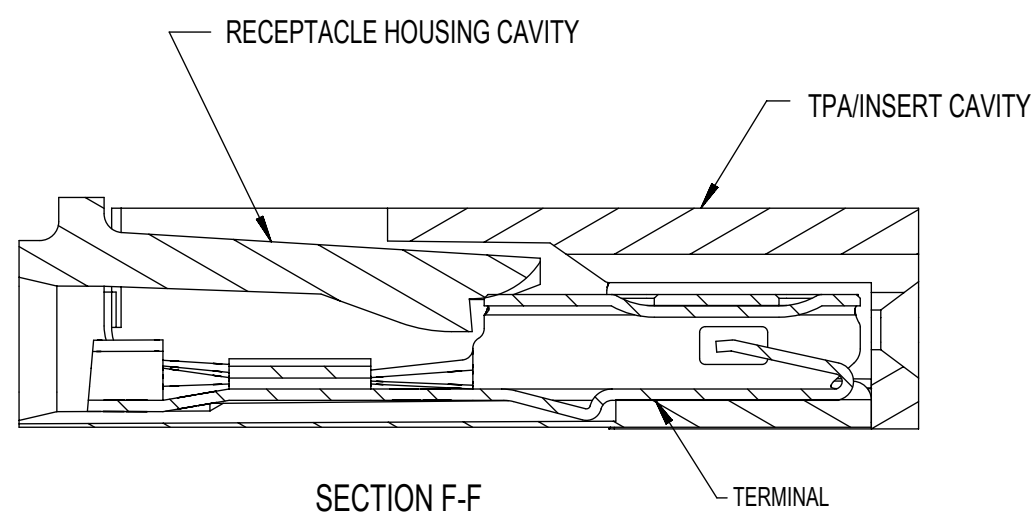
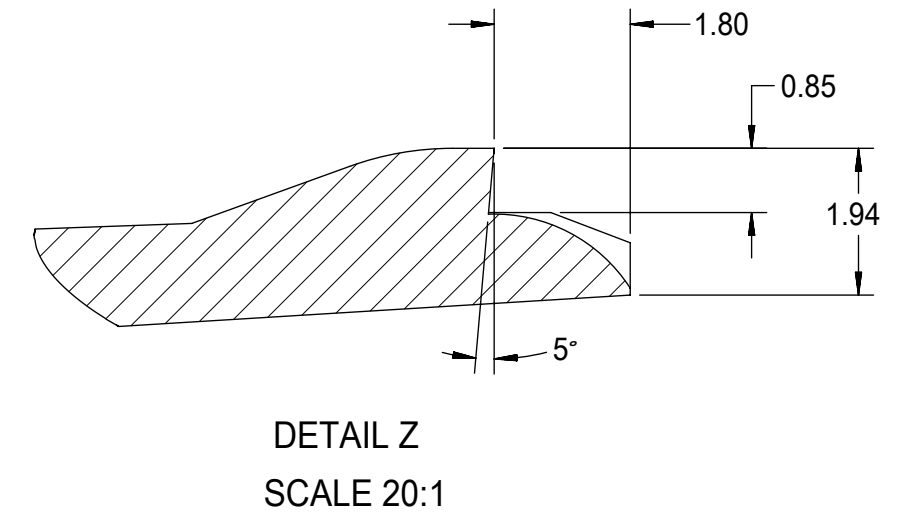
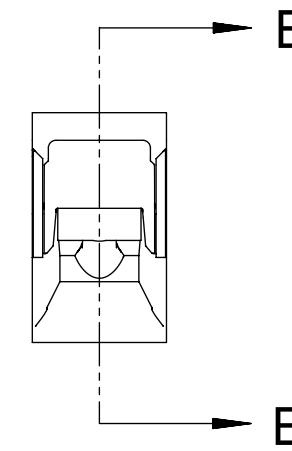
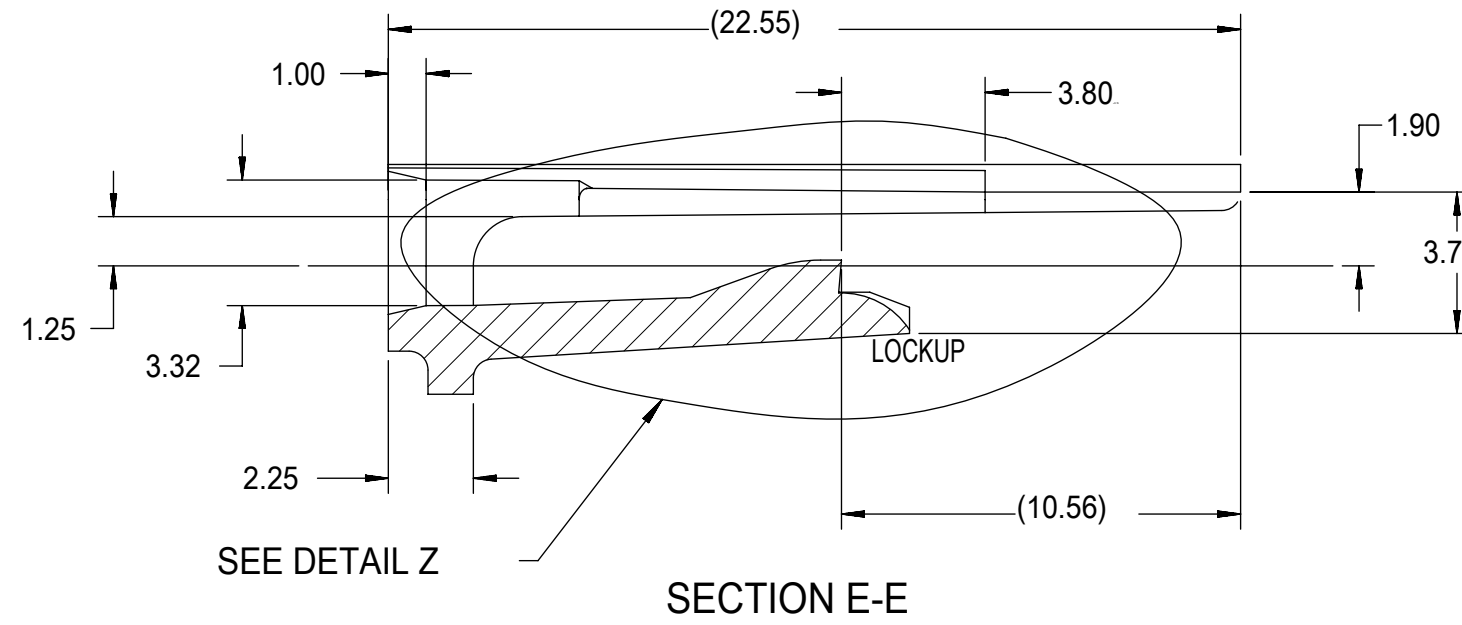
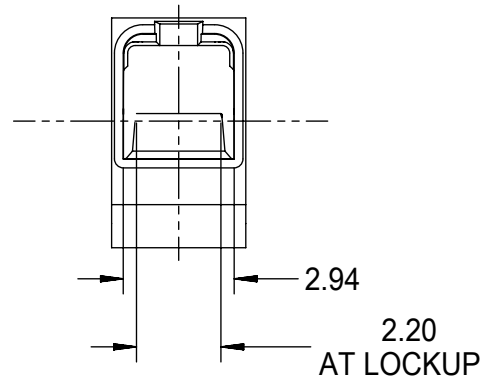


GROMMET SEAL / CAP CONFIGURATION TO MODIFY LARGE POLARIZATION RIB CAVITY TO ACCEPT SMALL POLARIZATION RIB APPLICATIONS

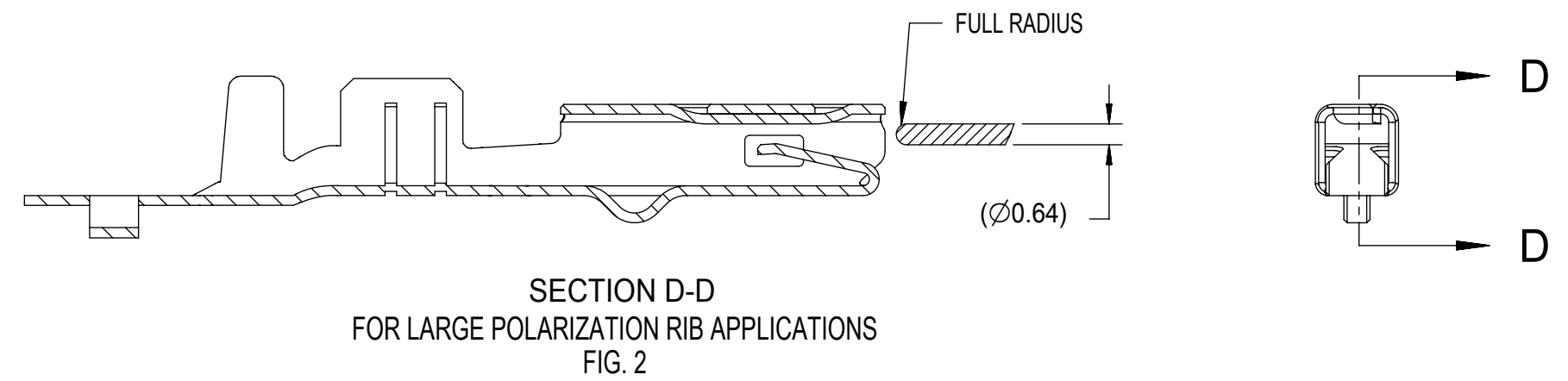
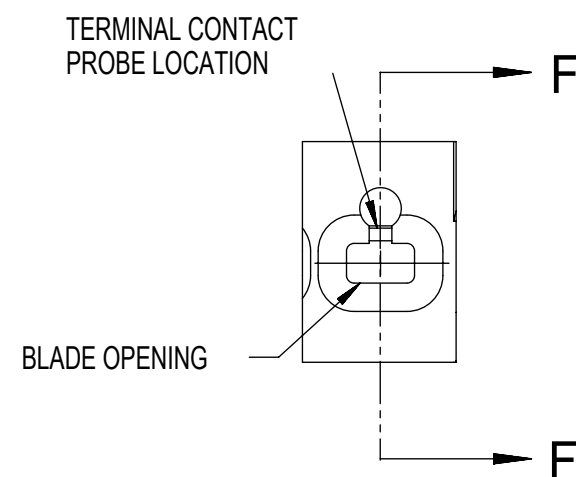
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION											
SYMBOLS		DIMENSION UNITS		SCALE		CURRENT REV DESC:					
▽ = 0 ▽ = 0 ▽ = 0 ▽ = 0 ▽ = 0 ▽ = 0 ▽ = 0 ▽ = 0 ▽ = 0 ▽ = 0 ▽ = 0 ▽ = 0		mm				EC NO: 645050 DRWN: BSKANTHARAJU 2020/09/03 CHK'D: JCUATACERVAN 2020/09/18 APPR: JCUATACERVAN 2020/09/18 INITIAL REVISION: DRWN: LPULLIAM 2005/06/21 APPR: BMOSEY 2005/06/22					
▽ = 0 ▽ = 0 ▽ = 0 ▽ = 0 ▽ = 0 ▽ = 0 ▽ = 0 ▽ = 0 ▽ = 0 ▽ = 0 ▽ = 0		GENERAL TOLERANCES (UNLESS SPECIFIED)		ANGULAR TOL ± 3.0°		PRODUCT CUSTOMER DRAWING DOCUMENT NUMBER: SD-33012-002 DOC TYPE: PSD DOC PART: 001 REVISION: D					
▽ = 0 ▽ = 0 ▽ = 0 ▽ = 0 ▽ = 0 ▽ = 0 ▽ = 0 ▽ = 0 ▽ = 0 ▽ = 0 ▽ = 0		4 PLACES ±		3 PLACES ±		2 PLACES ± 0.10		1 PLACE ± 0.3		0 PLACES ±	
▽ = 0 ▽ = 0 ▽ = 0 ▽ = 0 ▽ = 0 ▽ = 0 ▽ = 0 ▽ = 0 ▽ = 0 ▽ = 0 ▽ = 0		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION		DRAWING		SERIES		MATERIAL NUMBER	
						C-SIZE		33012		SEE TABLE	
										CUSTOMER	
										GENERAL MARKET	
										SHEET NUMBER	
										2 OF 5	



- NOTES: UNLESS OTHERWISE SPECIFIED
1. TOLERANCES: LINEAR ± 0.10
ANGULAR $\pm 3^\circ$
 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



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

FOR PROBING INFORMATION REFERENCE
MOLEX MX150 APPLICATION SPEC AS-33472-100

PREFERRED PROBING LOCATION
IS NOT ON SPRING MEMBER

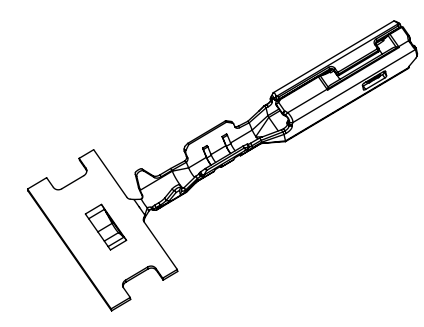
IF ELECTRICAL CONTINUITY PROBE
TOUCHES SPRING MEMBER USE
PROBING AS SHOWN IN FIG. 2

SYMBOLS		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION	
DIMENSION UNITS	SCALE	CURRENT REV DESC:	
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$\nabla = 0$	GENERAL TOLERANCES (UNLESS SPECIFIED)		
$\nabla = 0$	ANGULAR TOL $\pm 3.0^\circ$		
$\nabla = 0$	4 PLACES	\pm	
$\nabla = 0$	3 PLACES	\pm	
$\nabla = 0$	2 PLACES	± 0.10	
$\nabla = 0$	1 PLACE	± 0.3	
$\nabla = 0$	0 PLACES	\pm	
$\nabla = 0$	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		
	THIRD ANGLE PROJECTION	DRAWING	SERIES
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	DRWN: BSKANTHARAJU 2020/09/03		DOC PART
	CHK'D: JCUATACERVAN 2020/09/18		REVISION
	APPR: JCUATACERVAN 2020/09/18		
	INITIAL REVISION:		
	DRWN: LPULLIAM 2005/06/21		
	APPR: BMOSER 2005/06/22		
	DOCUMENT NUMBER		DOC PART
	SD-33012-002		001
	MATERIAL NUMBER		SHEET NUMBER
	SEE TABLE		4 OF 5
	CUSTOMER		
	GENERAL MARKET		

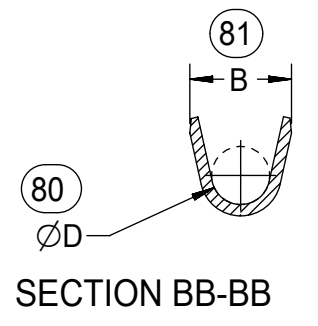
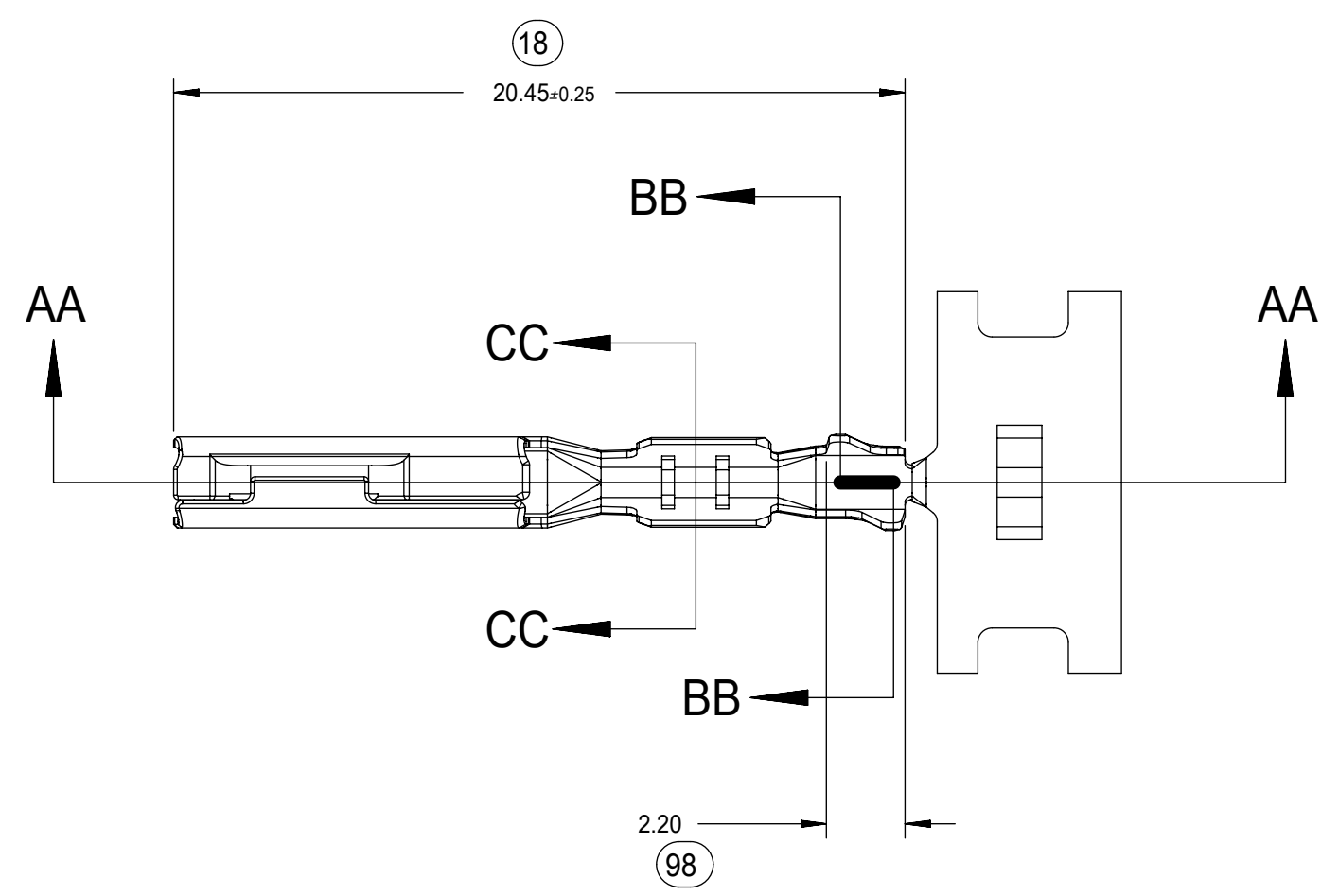
molex

MX150
RECEPTACLE TERMINAL

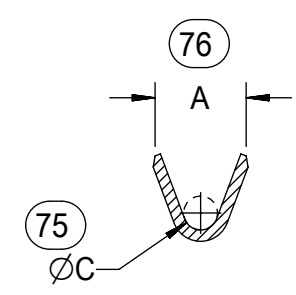
PRODUCT CUSTOMER DRAWING



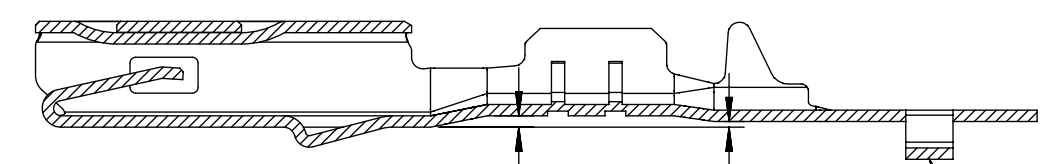
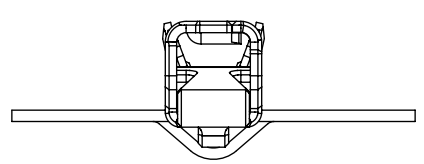
ISO VIEW
SCALE 2:1



SECTION BB-BB



SECTION CC-CC



SECTION AA-AA
M3 GRIP CODE TERMINAL
SEE TABLE (SHEET 2) FOR PART NUMBERS

CARRIER BUMP DIRECTION
POINTS DOWN FOR TIN PLATED TERMINAL
POINTS UP FOR PRECIOUS METAL PLATED TERMINAL

SYMBOLS ▽ = 0 ▽ = 0 ▽ = 0 ▽ = 0 ▽ = 0 ▽ = 0 ▽ = 0 ▽ = 0 ▽ = 0	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		CURRENT REV DESC:					
	DIMENSION UNITS	SCALE						
	mm	5:1						
	GENERAL TOLERANCES (UNLESS SPECIFIED)		EC NO: 645050					
	ANGULAR TOL ± 3.0°		DRWN: BSKANTHARAJU 2020/09/03					
4 PLACES ±		CHK'D: JCUATACERVAN 2020/09/18						
3 PLACES ±		APPR: JCUATACERVAN 2020/09/18						
2 PLACES ± 0.10		INITIAL REVISION:						
1 PLACE ± 0.3		DRWN: LPULLIAM 2005/06/21						
0 PLACES ±		APPR: BMOSEY 2005/06/22						
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION	DRAWING	SERIES	DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
			C-SIZE	33012	SD-33012-002	PSD	001	D
					MATERIAL NUMBER	CUSTOMER		SHEET NUMBER
					SEE TABLE	GENERAL MARKET		5 OF 5