产品编号 ： 330000002

Product Description ： MX150 Male Terminal for Mat-Sealed or Unsealed Connectors, Tin Plating, 16, 18 and 20 AWG, Right Reel Payoff

系列号 ： 33000

状态 ： Active

Product Category ： Crimp Terminals

文件和资源

图纸

图纸　330000002_sd.pdf

包装设计图　313025040-000.pdf

规格

应用规格　AS-33000-001-001.pdf

测试摘要　TS-33000-001-001.pdf

产物环境合规

合规

GADSL/IMDS	Compliant with Exemption 44; 33; 34
China RoHS	
EU ELV	Compliant per 2000/53/EC
Low-Halogen Status	Low-Halogen per IEC 61249-2-21
REACH SVHC	Not Contained per D(2023)3788-DC (14 Jun 2023)
EU RoHS	Compliant per EU 2015/863

多部分产品合规性声明

- Eu RoHS
- REACH SVHC
- Low-Halogen

多部分行业合规性文件

- IPC 1752A Class C
- IPC 1752A Class D
- Molex Product Compliance Declaration

- IEC-62474
- chemSHERPA (xml)

欧盟 RoHS 合格证书

产品详情

常规

状态	活动
类别	Crimp Terminals
系列	33000
说明	MX150 Male Terminal for Mat-Sealed or Unsealed Connectors, Tin Plating, 16, 18 and 20 AWG, Right Reel Payoff
应用	Power, Wire-to-Board, Wire-to-Wire
个评论	For automatic and semi-automatic crimping, use Left Reel Payoff terminals. See Sales Drawing for Left Reel Payoff Part Numbers.
产品系列	MX150 Sealed and Unsealed Connector System
产品名称	MX150
UPC	800756103556

电气

每触点最大电流	Contact Molex
电压 - 最大	14V DC

物理

性别	男
夹具代码	18
材料 - 金属	High Performance Alloy (HPA)
材料 - 接合部位电镀	Tin
材料 - 终端电镀	Tin
净重	442.800/mg
包装形式	Reel
最薄镀层 - 接合部位	0.508µm
最薄镀层 - 端接	0.508µm

终端界面类型	Crimp or Compression
导线绝缘直径	2.54mm max.
线径规格 (AWG)	16, 18, 20
线缆尺寸mm²	0.75-1.00

进程

无铅	不适用

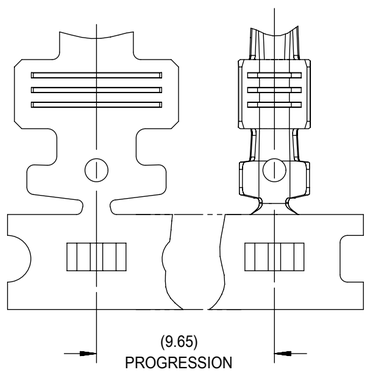
可连接使用部件

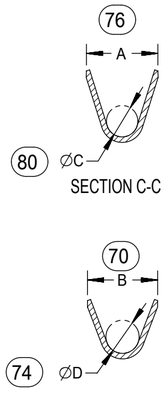
描述	产品编号
MX150 Mat-Sealed Single Row Male Connector Assemblies	33481
MX150 Mat-Sealed Dual Row Male Connector Assemblies	33482

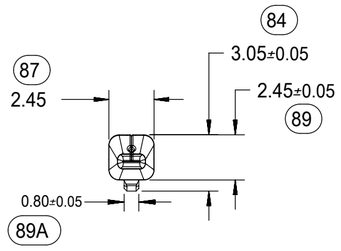
施工工具

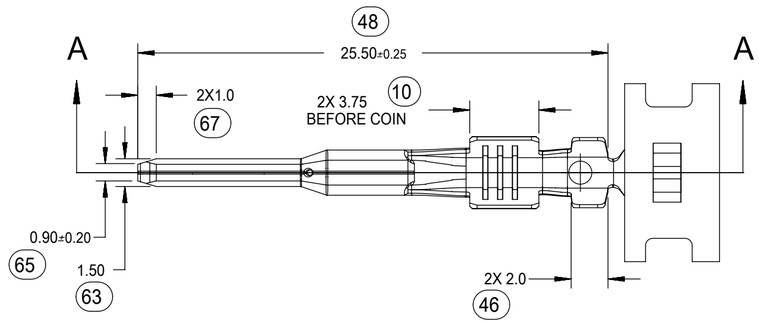
全局

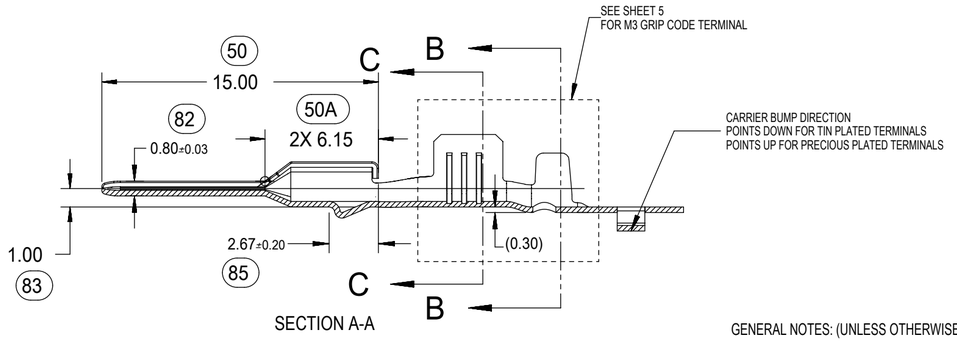
描述	产品编号
Extraction Toolkit for MX150 Connectors	2002220700
FA2 Mechanical Feed Applicator for MX150 Mat Seal/Unsealed Blade Terminals, 16 AWG TXL Wire and 18 AWG GXL Wire	0638084100
FA2 Pneumatic Feed Applicator for MX150 Mat Seal/Unsealed Blade Terminals, 16 AWG TXL Wire and 18 AWG GXL Wire	0638084110
PremiumGrade Hand Crimp Tool for 1.50mm MX150 Blade Male Terminals, 14-16 AWG	0638112400
PremiumGrade Hand Crimp Tool for 1.50mm MX150 Blade Male Terminals, 18-22 AWG	0638112600
Extraction Tool for MX150L, MX150, PT Bulb Socket, iGrid, SPOX, and Wire-to-Motor Terminals	0638131500

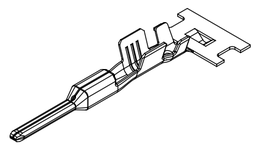




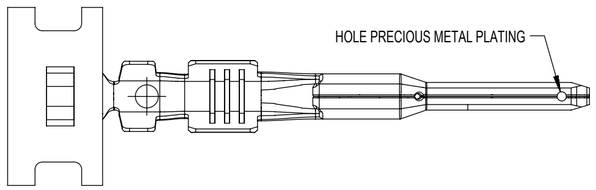








ISO VIEW
SCALE 2:1



PRECIOUS METAL PLATED BLADE

TIN PLATED BLADE

GENERAL NOTES: (UNLESS OTHERWISE SPECIFIED)

1. MATING TERMINAL SHOWN ON SD-33012-002

2. MATERIAL: ASTM B422, UNS C19025, HR04
   THICKNESS: 0.30 mm ±0.01
   TEMPER: FULL HARD (REF)
   TENSILE: 496-572 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 CRIMP PERFORMANCE SPECIFICATION SAE/USCAR-21 (8/2001)

7. MEETS PERFORMANCE STANDARD FOR AUTOMOTIVE ELECTRICAL CONNECTOR SYSTEMS
   SAE/USCAR-2 REV 3 (APRIL 2001)

8. MEETS FIELD CORRELATED LIFE TEST SAE/USCAR-20 (11/2001)

9. MEETS WIRING COMPONENT DESIGN GUIDLINES SAE/USCAR-12 REV 2 (12/2001)

10. MEETS ELECTRICAL CONNECTION SYSTEM DESIGN SPECIFICATION (SDS) REV 11 (5/2002)

11. REFERENCE PK-31300-516 FOR REEL DIRECTION

12. REFERENCE AS-33000-001 FOR CRIMP INFORMATION

SYMBOLS	
FA = 0	
FC = 0	
FB = 0	
S = 0	
= 0	
C = 0	
= 0	
= 0	
= 0	

DIMENSION UNITS	SCALE
mm	4:1

GENERAL TOLERANCES (UNLESS SPECIFIED)

ANGULAR TOL	±	3.0 °
4 PLACES	±	
3 PLACES	±	
2 PLACES	±	0.10
1 PLACE	±	0.3
0 PLACES	±	

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

CURRENT REV DESC:

EC NO: 631014
DRWN: NVENKATESHSH 2019/05/11
CHK'D: ADHIR 2020/03/06
APPR: ADHIR 2020/03/06

INITIAL REVISION:
DRWN: LPULLIAM 2006/01/31
APPR: bmoser 2006/02/02

THIRD ANGLE PROJECTION | DRAWING: C-SIZE | SERIES: 33000

molex

MX150 1.5MM BLADE TERMINAL

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
SD-33000-001	PSD	001	D2

MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
SEE TABLE	GENERAL MARKET	1 OF 5

DOCUMENT STATUS	P1	RELEASE DATE	2020/03/06 02:34:08

FORMAT: master-tb-prod-C
REVISION: H
DATE: 2018/01/18

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	BLADE	MAT SEAL UNSEALED	Sn	33000-0001	RIGHT (B)	14	14AWG 1.50-2.00mm²	3.9	3.8	1.7	1.6	HIGH PERFORMANCE Sn
				33000-1001	LEFT (D)							
				33000-0002	RIGHT (B)	18	20/18/16AWG 0.75-1.25mm²	3.3	3.1	1.3	1.4	
				33000-1002	LEFT (D)							
				33000-0003	RIGHT (B)	22	22AWG	2.5	2.6	0.9	1.0	
				33000-1003	LEFT (D)							
				33000-0004	RIGHT (B)	M3	0.35-0.50mm²	2.5	2.7	0.9	1.54 ±0.1	
				33000-1004	LEFT (D)							
			Au	33011-1002	RIGHT (B)	14	14AWG 1.50-2.00mm²	3.9	3.8	1.7	1.6	HIGH PERFORMANCE Au
				33011-0002	LEFT (D)							
				33011-1004	RIGHT (B)	18	20/18/16AWG 0.75-1.25mm²	3.3	3.1	1.3	1.4	
				33011-0004	LEFT (D)							
				33011-1006	RIGHT (B)	22	22AWG	2.5	2.6	0.9	1.0	
				33011-0006	LEFT (D)							
				33011-1008	RIGHT (B)	M3	0.35-0.50mm²	2.5	2.7	0.9	1.54 ±0.1	
				33011-0008	LEFT (D)							
			Ag	33011-2003	RIGHT (B)	14	14AWG 1.50-2.00mm²	3.9	3.8	1.7	1.6	HIGH PERFORMANCE Ag
				33011-3003	LEFT (D)							
				33011-2002	RIGHT (B)	18	20/18/16AWG 0.75-1.25mm²	3.3	3.1	1.3	1.4	
				33011-3002	LEFT (D)							
				33011-2001	RIGHT (B)	22	22AWG	2.5	2.6	0.9	1.0	
				33011-3001	LEFT (D)							
				33011-2004	RIGHT (B)	M3	0.35-0.50mm²	2.5	2.7	0.9	1.54 ±0.1	
				33011-3004	LEFT (D)							

* REFERENCE AS-33000-001 FOR SPECIFIC WIRE TYPES

SYMBOLS	
FA	= 0
FC	= 0
FD	= 0
S	= 0
	= 0
C	= 0
	= 0
	= 0
V	= 0

DIMENSION UNITS: mm
SCALE:

GENERAL TOLERANCES (UNLESS SPECIFIED)

ANGULAR TOL	± 3.0 °
4 PLACES	±
3 PLACES	±
2 PLACES	± 0.10
1 PLACE	± 0.3
0 PLACES	±

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

CURRENT REV DESC:

EC NO: 631014
DRWN: NVENKATESHSH 2019/05/11
CHK'D: ADHIR 2020/03/06
APPR: ADHIR 2020/03/06

INITIAL REVISION:
DRWN: LPULLIAM 2006/01/31
APPR: bmoser 2006/02/02

THIRD ANGLE PROJECTION | DRAWING: C-SIZE | SERIES: 33000

molex

MX150 1.5MM BLADE TERMINAL

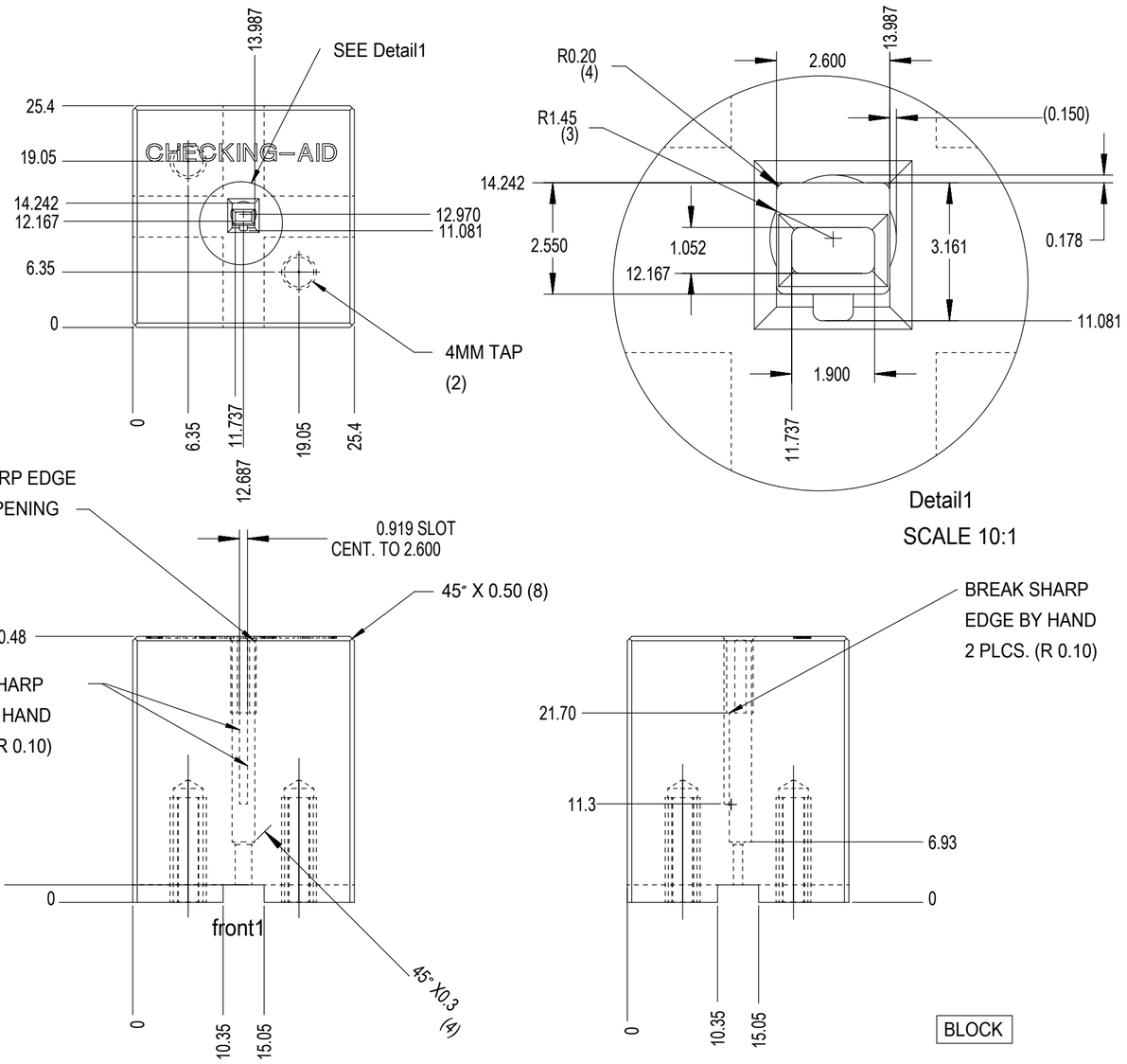
PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
SD-33000-001	PSD	001	D2

MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
SEE TABLE	GENERAL MARKET	2 OF 5

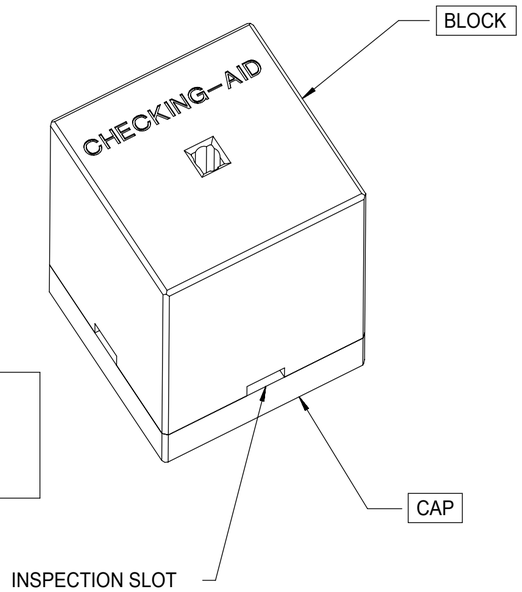
DOCUMENT STATUS	P1	RELEASE DATE	2020/03/06 02:34:08

FORMAT: master-tb-prod-C
REVISION: H
DATE: 2018/01/18



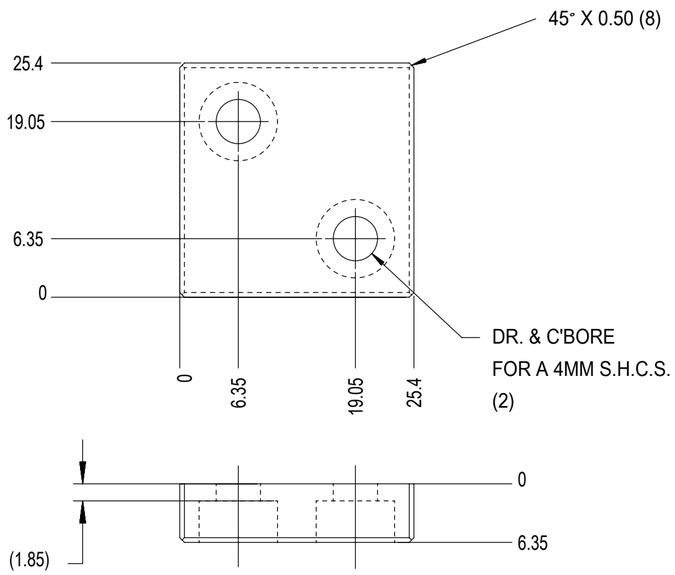
Detail1
SCALE 10:1

BLOCK

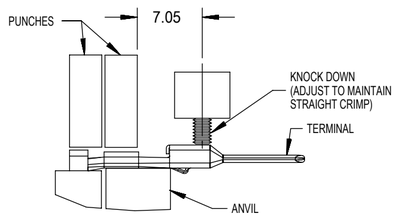


CHECKING-AID
2 PIECE ASM. A2 TOOL STEEL
HARDEN & GRIND TO A ROCKWELL
HARDNESS "C" SCALE OF 56-58

CHECKING AID TOLERANCE
.XXX = .005
.XX = .03
.X = .3



CAP



CRIMP TOOLING
SCALE 2:1

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 TERMINAL AND WIRE MUST FIT FREELY
   INTO THE CHECKING AID 33000-700. PROPER INSERTION
   DEPTH IS MET WHEN BLADE TIP STOPS ON CAP. SLOTS PROVIDED
   TO VISUALLY INSPECT STOPAGE OF PIN TIP.

3. FOR OTHER MECHANICAL REQUIREMENTS ON CRIMPED TERMINALS,
   REFER TO SAE/USCAR-21 (5-13-02) SECTIONS 4.2
   (VISUAL INSPECTION), 4.3 (CROSS SECTION ANALYSIS)
   AND 4.4 (CONDUCTOR CRIMP PULLOUT FORCE)

SYMBOLS	
A = 0	
C = 0	
B = 0	
S = 0	
▼ = 0	
C = 0	
☒ = 0	
■ = 0	
V = 0	

DIMENSION UNITS	SCALE
mm	2:1

GENERAL TOLERANCES (UNLESS SPECIFIED)

ANGULAR TOL	±	3.0 °
4 PLACES	±	
3 PLACES	±	
2 PLACES	±	0.10
1 PLACE	±	0.3
0 PLACES	±	

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

CURRENT REV DESC:

EC NO: 631014
DRWN: NVENKATESHSH 2019/05/11
CHK'D: ADHIR 2020/03/06
APPR: ADHIR 2020/03/06

INITIAL REVISION:
DRWN: LPULLIAM 2006/01/31
APPR: bmoser 2006/02/02

THIRD ANGLE PROJECTION | DRAWING: C-SIZE | SERIES: 33000

molex

MX150 1.5MM BLADE TERMINAL

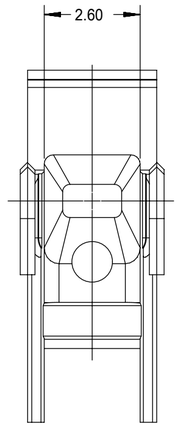
PRODUCT CUSTOMER DRAWING

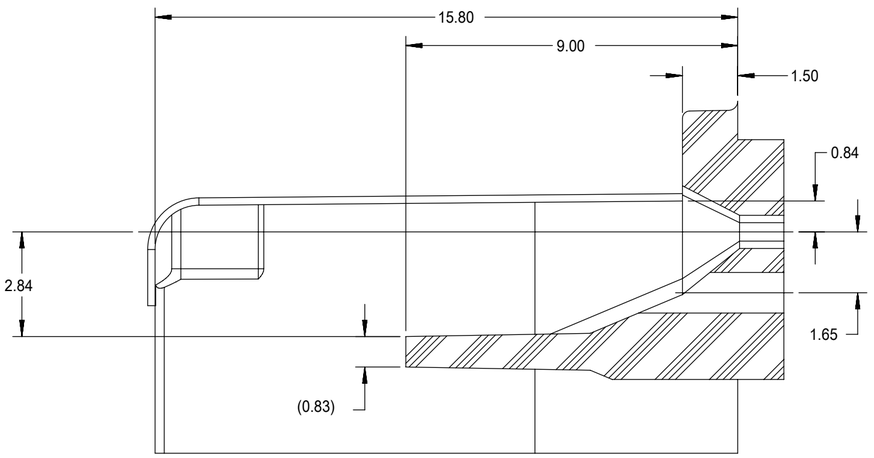
DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
SD-33000-001	PSD	001	D2

MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
SEE TABLE	GENERAL MARKET	3 OF 5

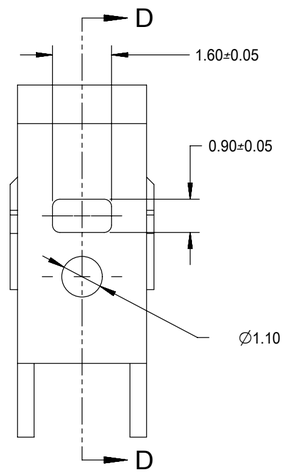
DOCUMENT STATUS	P1	RELEASE DATE	2020/03/06 02:34:08

FORMAT: master-tb-prod-C
REVISION: H
DATE: 20180118

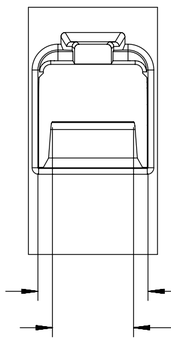


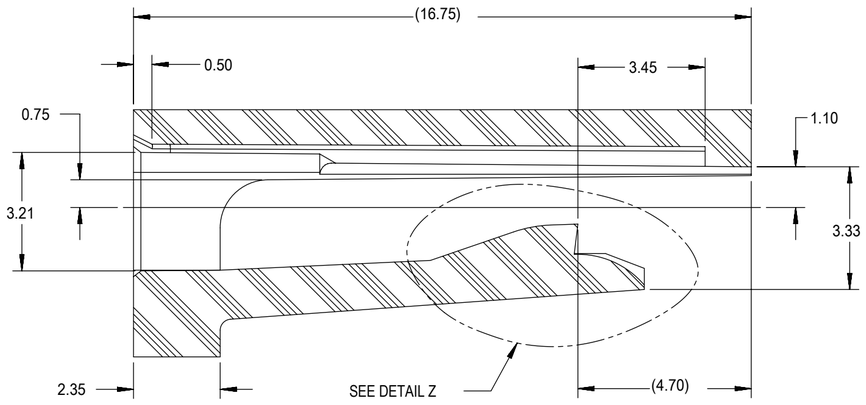


SECTION D-D

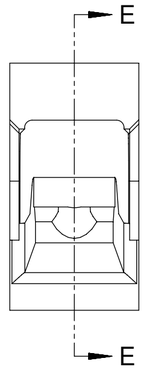


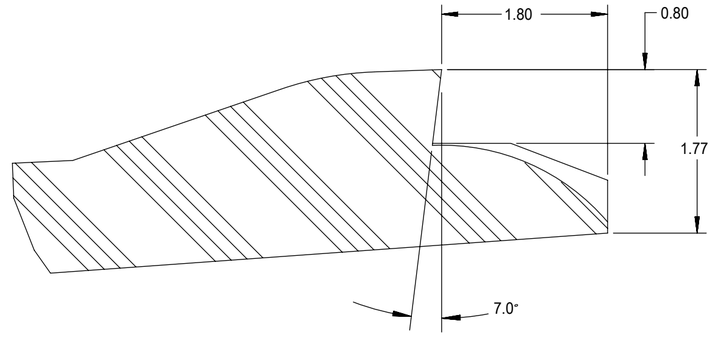
TPA/INSERT DETAIL





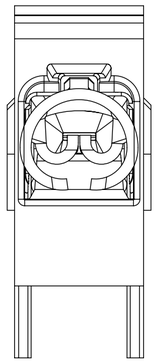
SECTION E-E

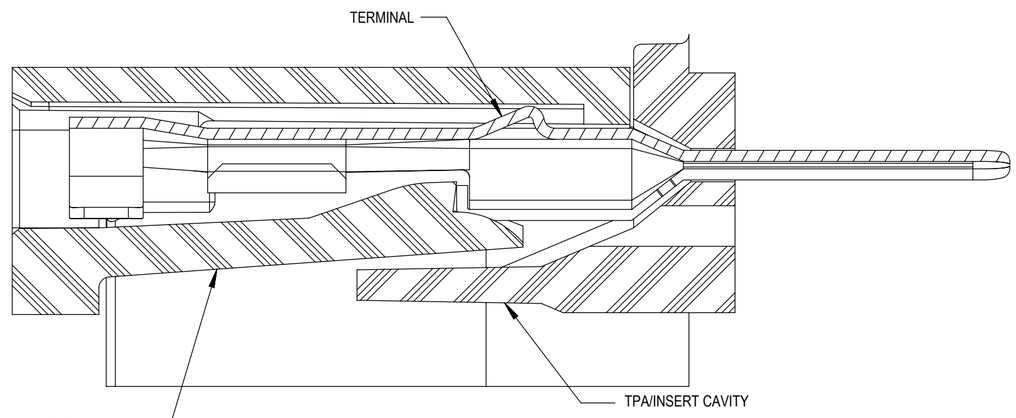




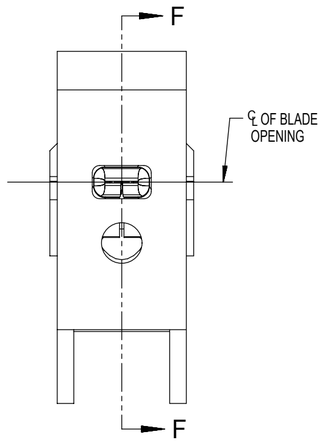
DETAIL Z
SCALE 20:1

HOUSING DETAIL





SECTION F-F



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 BLADE TERMINAL PART NUMBERS (EXCEPT P/N'S FOR UNSEALED APPLICATIONS) SPECIFIED ELSEWHERE ON THIS DRAWING

BLADE CAVITY ASSEMBLY VIEWS

SYMBOLS	
FA = 0	
FC = 0	
FP = 0	
S = 0	
▼ = 0	
C = 0	
☒ = 0	
■ = 0	
▽ = 0	

DIMENSION UNITS	SCALE
mm	

GENERAL TOLERANCES (UNLESS SPECIFIED)		
ANGULAR TOL	±	3.0 °
4 PLACES	±	
3 PLACES	±	
2 PLACES	±	0.10
1 PLACE	±	0.3
0 PLACES	±	

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

CURRENT REV DESC:

EC NO: 631014

DRWN:	NVENKATESHSH	2019/05/11
CHK'D:	ADHIR	2020/03/06
APPR:	ADHIR	2020/03/06

INITIAL REVISION:

DRWN:	LPULLIAM	2006/01/31
APPR:	bmoser	2006/02/02

THIRD ANGLE PROJECTION | DRAWING: C-SIZE | SERIES: 33000

molex

MX150 1.5MM BLADE TERMINAL

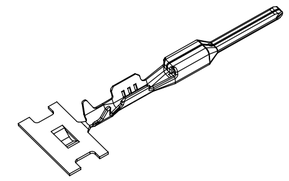
PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
SD-33000-001	PSD	001	D2

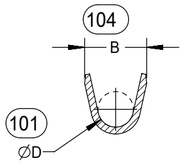
MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
SEE TABLE	GENERAL MARKET	4 OF 5

DOCUMENT STATUS	P1	RELEASE DATE	2020/03/06 02:34:08

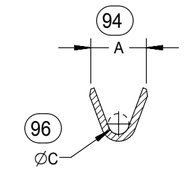
FORMAT: master-tb-prod-C
REVISION: H
DATE: 2018/01/18



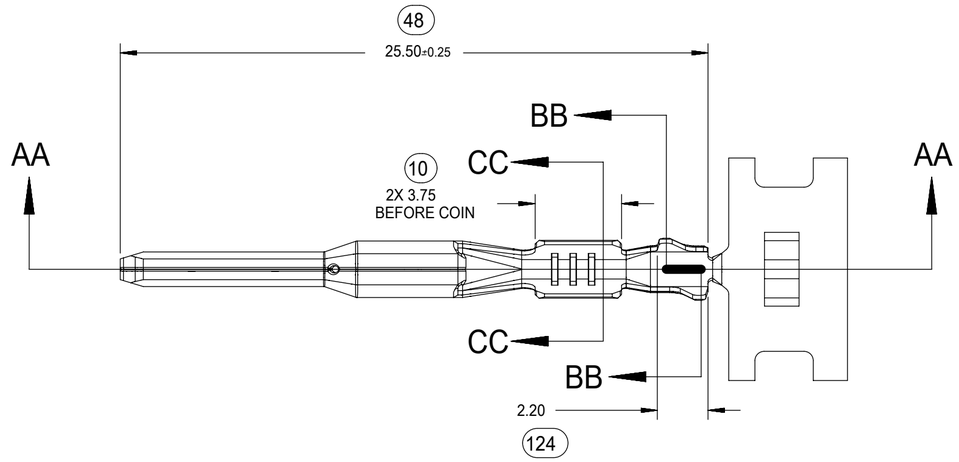
ISO VIEW
SCALE 2:1

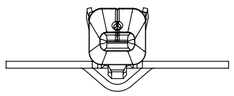


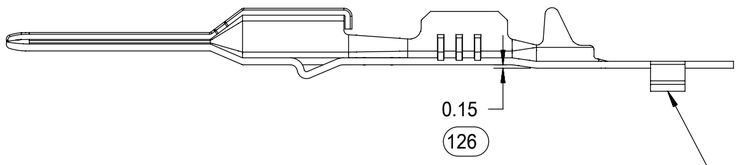
SECTION BB-BB



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 TERMINALS
POINTS UP FOR PRECIOUS METAL PLATED TERMINALS

DOCUMENT STATUS	P1	RELEASE DATE	2020/03/06 02:34:08

FORMAT: master-tb-prod-C
REVISION: H
DATE: 2018/01/18

SYMBOLS
F = 0
F = 0
F = 0
S = 0
= 0
C = 0
= 0
= 0
= 0

DIMENSION UNITS	SCALE
mm	5:1

GENERAL TOLERANCES (UNLESS SPECIFIED)

ANGULAR TOL	± 3.0 °
4 PLACES	±
3 PLACES	±
2 PLACES	± 0.10
1 PLACE	± 0.3
0 PLACES	±

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

CURRENT REV DESC:

EC NO: 631014
DRWN: NVENKATESHSH 2019/05/11
CHK'D: ADHIR 2020/03/06
APPR: ADHIR 2020/03/06

INITIAL REVISION:
DRWN: LPULLIAM 2006/01/31
APPR: bmoser 2006/02/02

THIRD ANGLE PROJECTION	DRAWING	SERIES
	C-SIZE	33000

molex

MX150 1.5MM BLADE TERMINAL

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
SD-33000-001	PSD	001	D2

MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
SEE TABLE	GENERAL MARKET	5 OF 5