

CTX64 MAT SEAL RECEPTACLE CRIMP TERMINAL (7.0mm pitch)

1.0 SCOPE

This specification details the crimping information and common practices of general crimps for the Molex CTX64 mat seal receptacle terminal. Please refer to the sales drawing SD-34803-002 for additional part information. The information in this document is for reference and benchmark purposes only. Customers are required to complete their own validation testing if tooling and/or wire is different than what is shown in

this specification.

All measurements are in millimeters and Newtons unless specified otherwise.

Terminals shown in this document are generic representations. They are not intended to be an image of any terminal listed in the scope.

2.0 PRODUCT DESCRIPTION

REVISION: | ECR/ECN INFORMATION: | TITLE:

DEFINITION OF TERMS:

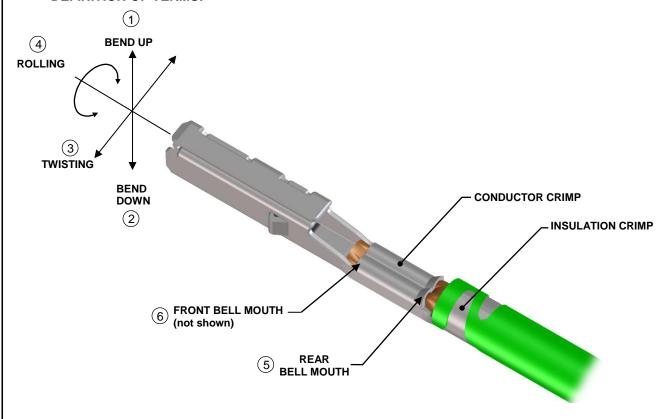


Figure 1

CTY64 MAT SEAL

SHEET No.

C1	EC No: UAU2016-1050 DATE: 2016 / 01 / 05	RECEPTACLE 7.0mm PITCH APPLICATION SPECIFICATION				
DOCUMEN	T NUMBER:	CREATED / REVISED BY:	CHECKED BY:	APPRO\	/ED BY:	
AS-502306-002		J.Burgio	J.Pruneau	B.Mo	oser	
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DEFINITIONS OF TERMS (CONT.):

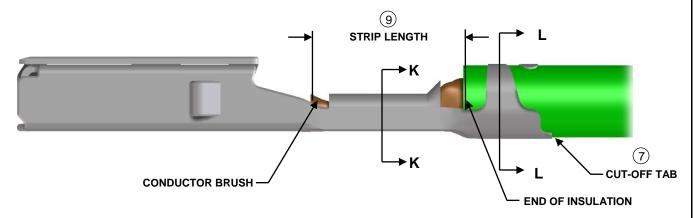
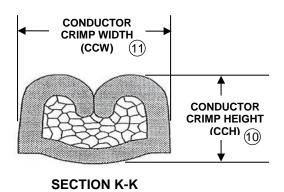


Figure 2



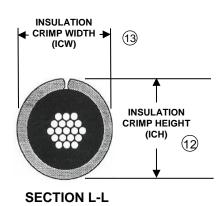


Figure 3

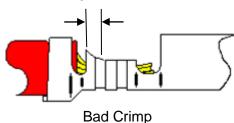
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C1	EC No: UAU2016-1050	RECEP	ΓACLE 7.0mm PI ⁻	ГСН	2 of 16
	DATE: 2016 / 01 / 05	APPLICA	2 Of 10		
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BELLMOUTH (FLARE) 5 6

The flare that is formed on the edge of the conductor crimp acts as a funnel for the wire strands. This funnel reduces the possibility that a sharp edge on the conductor crimp will cut or nick the wire strands. A rear bellmouth is required on the conductor crimp. A front bellmouth is optional. <u>Caution:</u> Excessively large bellmouths will reduce crimp area and reduce pull forces. See Table 3 for bellmouth specifications.

Bellmouth too large Reduced Crimp Area, Lower Pull Forces



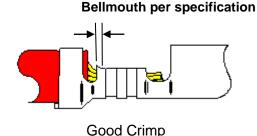
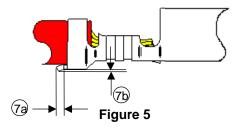


Figure 4

CUT-OFF TAB 7

This is the material that protrudes outside the insulation crimp after the terminal is separated from the carrier strip. A cut-off tab that is too long may expose a terminal outside the housing; it may fail electrical spacing requirements. See Table 3 for cut-off tab length specifications. <u>Caution:</u> Burrs on the cut-off tab are not allowed as they have the potential to cut mat seals.



CONDUCTOR BRUSH (8)

The conductor brush is made up of the wire strands that extend past the conductor crimp on the contact side of the terminal. This helps ensure that mechanical compression occurs over the full length of the conductor crimp. The conductor brush should not extend into the contact area or above the conductor crimp/transition wall height (whichever is tallest). CAUTION: Excessive conductor brush extended above the transition/crimp area can cause terminal retention issues inside plastic cavity and potentially could compromise/tear the glands of the mat seal.

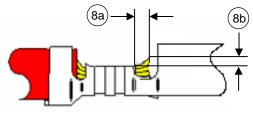


Figure 6

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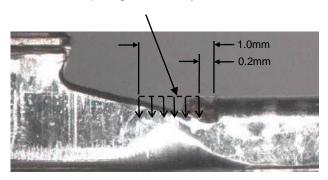
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APPLICATION SPECIFICATION

For the CTX64 receptacle terminal, the conductor brush extension past the conductor crimp must be greater than 0.2mm and less than 1.0mm. And, depending on where the brush ends, it must be either below the conductor crimp height or transition wall; whichever is taller. See Figure 7 for an example of brush height boundary.

Crimp height taller than transition wall; end of brush to be below crimp height boundary



Crimp height shorter than transition wall; end of brush to be below crimp height/transition wall boundary

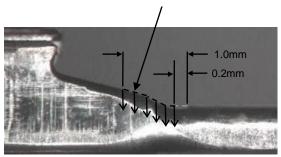


Figure 7

CONDUCTOR STRIP LENGTH (9)

The strip length is determined by measuring the exposed conductor strands after the insulation is removed. The strip length determines the conductor brush length when the end-of-insulation position is centered in the transition area between conductor and insulation crimps. See Table 3 for the length requirement.

CAUTION: Care must be taken not to leave indentations on the wire strands during the strip and cut operation as this can compromise the effectiveness of the mat seal and can result in leaks.

CONDUCTOR CRIMP

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This is the metallurgical compression of a terminal around the wire's conductor. This connection creates a common electrical path with low resistance and high current carrying capabilities.

CONDUCTOR CRIMP HEIGHT (19)

The conductor crimp height is measured from the top surface of the formed crimp to the bottom most radial surface. Do not include the extrusion points in this measurement. Measuring crimp height is a quick, non-destructive way to help ensure the correct metallurgical compression of a terminal around the wire's conductor and is an excellent attribute for process control. The crimp height specification is typically set as a balance between electrical and mechanical performance over the complete range of wire stranding and coatings, and terminal materials and plating. Although it is possible to optimize a crimp height to individual wire strands and terminal plating, one crimp height specification is normally created. See Table 2 for crimp height specifications.

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INSULATION CRIMP HEIGHT (12)

Insulation crimp heights are specified in Table 2. CTX64 receptacle terminal insulation grips are designed to accommodate multiple wire sizes. Even though the insulation grip may completely surround a smaller wire and only partially surround a larger wire, an acceptable insulation crimp is still provided.

The insulation crimp should be visually evaluated to confirm it provides adequate compression on the wire. It should also be evaluated by sectioning through the center of the crimped insulation grip. The grip should compress the wire but not pierce it or otherwise damage the integrity of the insulation. The grip should not contact the conductors under any circumstance. Mechanically, the insulation grip should withstand repeated flexing of the wire as shown in Figure 8 without pulling out of the grip. The wire is flexed 5 times each in two perpendicular planes in the following sequence: b to a, a to b, b to c, c to b, then repeat (see Figure 8).

Once the optimum setting for an insulation crimp height is determined, it is important to document it. The operator can then check it as part of the setup procedure.

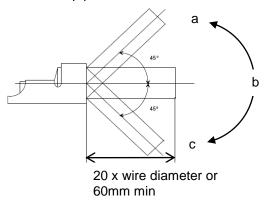
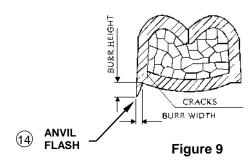


Figure 8

EXTRUSIONS (ANVIL FLASH / BURR) 14

These are the small flares that form on the bottom of the conductor crimp resulting from the clearance between the punch and anvil tooling. If the anvil is worn or the terminal is over-crimped, excessive extrusion can result.

An uneven extrusion may also result if the punch and anvil are misaligned, if the feed is misadjusted or if there is insufficient or excessive terminal drag. CAUTION: Anvil Flash has the potential to damage mat seals and should be maintained within specifications (see Figure 9 and Table 3).



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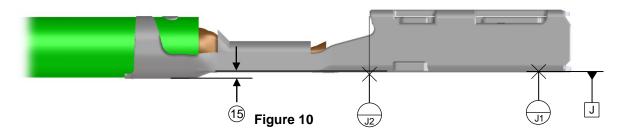
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INSULATION GRIP STEP (15)

The insulation grip step is the designed offset between the conductor grip and the insulation grip which must be met by the crimp process (see Figure 10 and Table 3).



END-OF-INSULATION POSITION

This is the location of the insulation in relation to the transition area between the conductor and insulation crimps. Equal amounts of the conductor strands and insulation needs to be visible in the transition area. The end-of-insulation position ensures that the insulation is crimped along the full length of the insulation crimp and that no insulation gets crimped under the conductor crimp. The end-of-insulation position is set by the wire stop and strip length for bench applications. For automatic wire processing applications the end-of-insulation position is set by the in/out press adjustment (see Figure 2).

WING DISSYMMETRY 16

Wing dissymmetry is the crimped offset between the ends of core wings (see Figure 11 and Table 3).

SPACE BETWEEN WING TIPS AND CRIMP BOTTOM 17

The space between the crimp wing tips and the bottom of the crimp is designed to assure no contact between wing tips and the crimp bottom (see Figure 11 and Table 3).

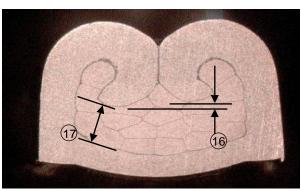


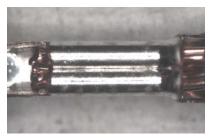
Figure 11

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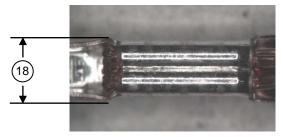


CRIMP BULGE (18)

Caution needs to be taken with the crimp tooling to prevent a bulge in the transition area during crimping. The transition should generally flow smoothly from the conductor crimp to the terminal box. Any bulge must not exceed the width shown in Table 3. See Figure 12 for an example of crimp bulge.



Good Crimp (No Bulge)

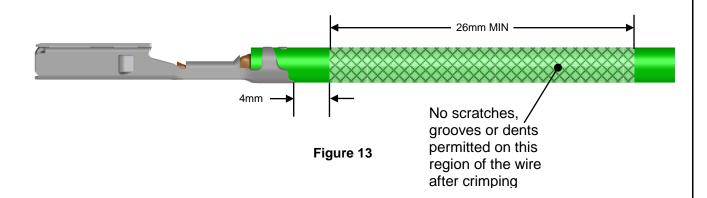


Bad Crimp (Bulge)

Figure 12

WIRE CONDITION AFTER CRIMP

The wire, after crimping, should not have any scratches, grooves or dents. Such imperfections act as a leak path at the junction between the wire and the mat seal. At a minimum, check the condition of the wire on a sample length of 26mm as shown in Figure 13.



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 APPROVED BY:

 AS-502306-002
 J.Burgio
 J.Pruneau
 B.Moser



3.0 PRODUCT SPECIFICATIONS

Table 1

Terminal Family	Gender	Sealing	Plating	Special Characteristics	Grip Size	Wire Range	Insulation Diameter Range (mm)	
			Sn	Standard Performance Tin (Std. Sn)				
			Sn	High Performance Tin (HP Sn)	S	S	0.22 – 0.35 mm ² 22 AWG	1.1 – 1.65
CTX64	Pocontacio	Mat Seal	Ag	High Performance Silver (HP Ag)				
C1704	Receptacle	iviat Seai	Sn	Standard Performance Tin (Std. Sn)				
			Sn	High Performance Tin (HP Sn)	L	0.5 – 0.85 mm ² 20 AWG	1.4 – 1.9	
			Ag	High Performance Silver (HP Ag)				

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AS-502306-002		J.Burgio	J.Pruneau	B.Mc	oser



Table 2

Мс	olex Product Attribute	Validated Wire		Conduct Barrel		Insulation Barrel		Pull Out Force			
Grip Size	Special Characteristics	Wire Type	Wire Size	CCH ± 0.05	CC W	ICH					
	Standard Performance Tin	TXL ^{3,c}	22 AWG	0.69 ± 0.03		1.8 MAX		60			
	High Performance Tin	IAL	22 AWG	0.72 ± 0.03		1.0 IVIAA		00			
		FLRY-A ^{1,3,e}						35			
	Standard Performance Tin	B2M ^{1,a} PSA FTP:00949_12_00996	0.22mm ²	0.65 ± 0.03		1.46 ± 0.04					
S	Standard Performance Tin	AVSS ^{2,b}	0.30mm ²	0.75 ± 0.03	(1.3)	1.8 MAX	(1.45) [1.6 MAX ⁴]				
	Standard Performance Tin	PSA FTP: AEEV_AREF08_0909 (A3 ^d) PSA FTP: AEEV_AREF08_1035 (A3 ^d)	0.35mm^2 0.69 ± 0.03						1.90 ± 0.05		60
	High Performance Tin	ACOME T3-ZHID ^{1,3,a,e} PSA FTP: 00949_10_00766			1.62 ± 0.0	1.62 ± 0.04					
	High Performance Silver	ACOME T3-ZHID ^{1,a,e} PSA FTP: 00949_10_00766				[1.7 MAX ⁴]					
	Standard Performance Tin High Performance Tin	TXL ^{3,c}	20 AWG	0.95		2.0 MAX		90			
	Standard Performance Tin High Performance Tin	ACOME T3-ZHID ^{1,3,a,e} PSA FTP: 00949 10 00767				1.76 ± 0.04 [2.0 MAX ⁴]		70			
	High Performance Silver	PSA FTP. 00949_10_00767	0.50mm ²	0.95		[2.0 IVIAX]					
	Standard Performance Tin	AVSS ^{2,b}				2.0 MAX		90			
L	Standard Performance Tin High Performance Tin	ACOME T3-ZHID ^{1,3,a,e} PSA FTP: 00949_10_00768		1.05	(1.4)		(1.75) [1.9 MAX ⁴]				
	High Performance Silver	ACOME T3-ZHID ^{1,a,e} ACOME FLR2XA3ZH-A ^{1,e,g} PSA FTP: 00949_10_00768	0.75mm ²	0.75mm ² 0.95		2.0 MAX		90			
	Standard Performance Tin High Performance Tin High Performance Silver	PSA FTP: AEEV_AREF07_0821 (CE3 ^{1,f})		1.07							
	Standard Performance Tin	AVSS ^{2,b}	0.85mm ²	1.10				130			

The above specifications are guidelines to an optimum crimp. Crimp heights/widths are applicable for punch/anvil tooling shown in

Pull force should be measured with no influence from the insulation crimp.

Customers are required to complete their own validation testing if tooling and/or wire is different than what is shown in this specification.

⁴Values in brackets are the maximum size permitted for insulation crimp height/width for terminals crimped to wires other than those shown in Table 2 above.

Terminal crimps were validated to following specifications:

¹PSA STE 96 341 150 99, B21 7050

²RSA 36-05-019, 36-05-036 (Mechanicals and Visuals Only)

3USCAR-21

Wires are in accordance with following specifications:

^a PSA B25 1110: NFS-Conventional electrical conductor

^b JASO D 6111: AVSS type

SAE J1128: TXL type

^d PSA B25 1110: Augmented Insulation (0.5mm² insulation on 0.35mm² conductor)

FTP: AEEV_AREF08_1035 for Nexans wire

FTP: AEEV_AREF08_0909 for Acome wire

e ISO 6722: Thin wall type

^fPSA 96 904 053 99: electrical sealing wire and FTP: AEEV_AREF07_0821 (0.75mm²)

⁹GMW 15626: Single-Core Stranded ISO Cable

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Table 3

	Specifications							
Balloon #	Description		Red	quirement				
1	Bend Up		1° MAX					
2	Bend Down		2	2° MAX				
3	Twisting		4	¹° MAX				
4	Rolling		6	5° MAX				
5	Rear Bell Mouth		0.2	20 – 0.55				
6	Front Bell Mouth		Not	Required				
7	Cut-Off Tab	а	0.0	30 MAX				
,	Gut-On Tab	b	N	o Burrs				
_		а	a 0.2 – 1.0					
8	Conductor Brush	b	b Not to extend above conductor crimp/transition height					
9	Conductor Strip Length		4.0 – 4.5	5 for reference				
10	Conductor Crimp Height		Sec	e Table 2				
11	Conductor Crimp Width		Sec	e Table 2				
12	Insulation Crimp Height		Sec	e Table 2				
13	Insulation Crimp Width		Sec	e Table 2				
14	Conductor Anvil Flash		0.	10 MAX				
15	Insulation Grip Step From J1-J2 (see Figure 9)	0.20 ± 0.05						
16	Wing Dissymmetry	0.20 MAX						
17	Space Between Wing Tips	Wire	Size ≤ 0.22mm ²	No Contact				
17	and Crimp Bottom	Wire Size ≥ 0.35 mm ² 0.10 MIN						
18	Crimp Bulge		Not to exceed conductor crimp width					

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4.0 REFERENCE DOCUMENTS

Reference documentation for general practices is located on the website per the below links:

- 1. Molex Quality Crimping Handbook http://www.molex.com/images/products/apptool/qual_crimp.pdf
- 2. Molex-Recognizing Good Crimps http://www.molex.com, search for Application Tooling

5.0 PROCEDURE

5.1 GENERAL MEASUREMENT AND EVALUATION REQUIREMENTS

Crimp Height Measurement (Extrusion Evaluation)

- 1. Complete tool set-up procedure.
- 2. Crimp a minimum of 5 samples.
- 3. Place the flat blade of the crimp micrometer across the center of the dual radii of the conductor crimp. Do not take the measurement near the conductor bell mouth (see Figure 14).
- 4. Rotate the micrometer dial until the point contacts the bottom most radial surface

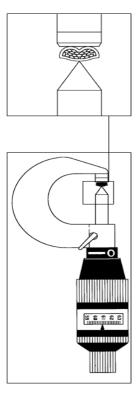


Figure 14

6.0 CRIMP TOOLING GEOMETRY

The crimp tooling information shown below is based on the tooling that Molex used to perform validation testing to establish recommended crimp height and widths. The user is responsible for validating crimp performance based on tooling, equipment and wire that is being used.

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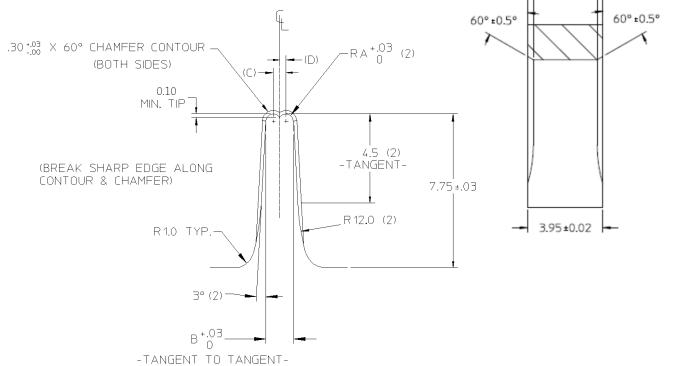
APPLICATION SPECIFICATION

Table 4 (see Figure 15 for geometry)

Wire App	lication	C	onducto	r Punch	
Grip Size	Wire Size	Α	В	O	D
S	22AWG				
	0.22mm ²	0.25	1.30	0.60	0.20
	0.30mm ²	0.35			0.30
	0.35mm ²				
	20AWG				
1	0.50mm ²	0.38	4.40	0.64	0.32
L	0.75mm ²	0.36	1.40		0.32
	0.85mm ²				

General Tolerances			
(unless specified)			
2 PLACES	± 0.13		
1 PLACE	± 0.25		
ANGULAR	± 0.5°		

0.30 +0.03



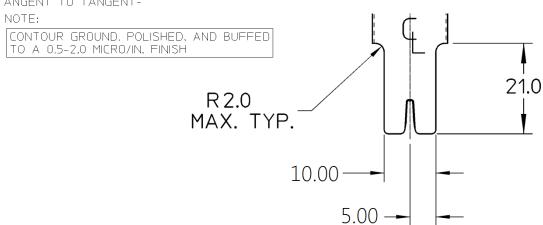


Figure 15

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APPLICATION SPECIFICATION

Table 5 (see Figure 16 for geometry)

Wire Application		Insulator Punch				
Grip Size Wire Size		E	F	G	н	J
	22AWG					
S	0.22mm ²	1.45	0.725	2.40	2.00	1.12
	0.30mm ²		0.725	2.40		
	0.35mm ²					
	20AWG					
L	0.50mm ²	1.75	0.075	2.50	2.50	0.70
	0.75mm ²	1.75	0.875			0.79
	0.85mm ²					

General Tolerances				
(unless specified)				
2 PLACES	± 0.13			
1 PLACE	± 0.25			
ANGULAR	± 0.5°			

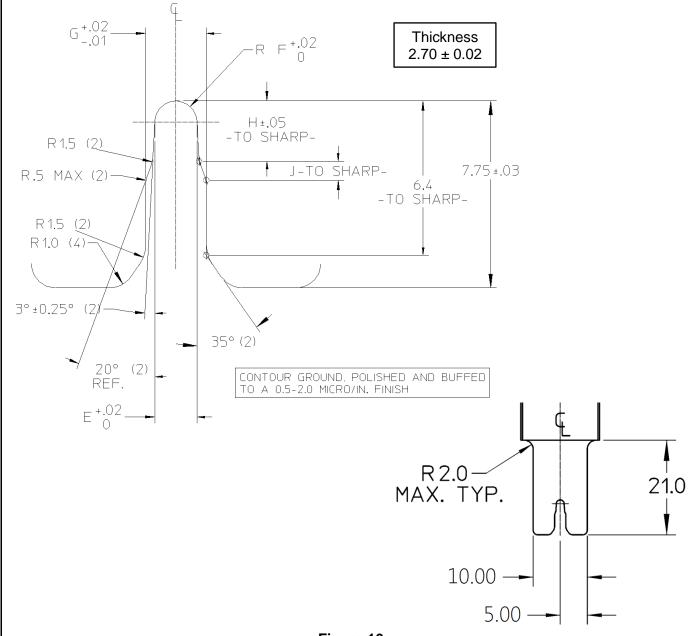


Figure	16

REVISION:	ECR/ECN INFORMATION:	TITLE: CT	X64 MAT SEAL		SHEET No.
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AS-502306-002 **J.Burgio** TEMPLATE FILENAME: CRIMP_SPEC[SIZE_A](V.1).DOC

J.Pruneau

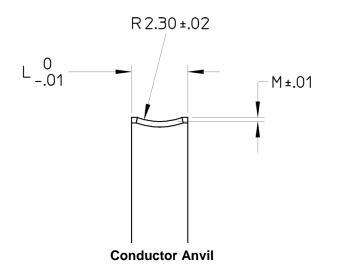
B.Moser

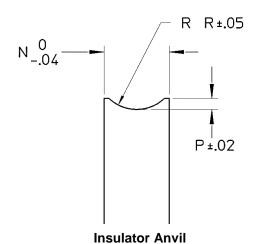


Table 6 (see Figure 17 for geometry)

Wire Application			Anvils						
Grip Size	Wire Size	L	М	N	Р	R	U	W	
	22AWG								
	0.22mm ²	1.30	0.05	1.40	0.13	1.00	0.15	0.20	
S	0.30mm ²								
	0.35mm ²								
	20AWG								
L	0.50mm ²	4 40	0.05	0.05 1.70	0.19	1.20	0.00	0.00	
	0.75mm ²	1.40	0.05				0.20	0.20	
	0.85mm ²								

General Tolerances			
(unless specified)			
2 PLACES	± 0.13		
1 PLACE	± 0.25		
ANGULAR	± 0.5°		





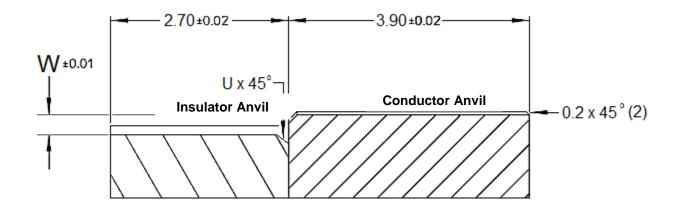


Figure 17

REVISION:	ECR/ECN INFORMATION:	TITLE: C1	TLE: CTX64 MAT SEAL				
C1	EC No: UAU2016-1050	RECEP ⁻	RECEPTACLE 7.0mm PITCH				
C1	DATE: 2016 / 01 / 05	APPLICA	TION SPECIFICA	TION	14 of 16		
<u>DOCUMEN</u>	T NUMBER:	CREATED / REVISED BY:	CHECKED BY:	APPRO\	/ED BY:		
AS-502306-002		J.Burgio	J.Burgio J.Pruneau B.M		oser		

7.0 CRIMP STRAIGHTNESS

A sample method for maintaining crimp straightness is shown in Figure 18 below.

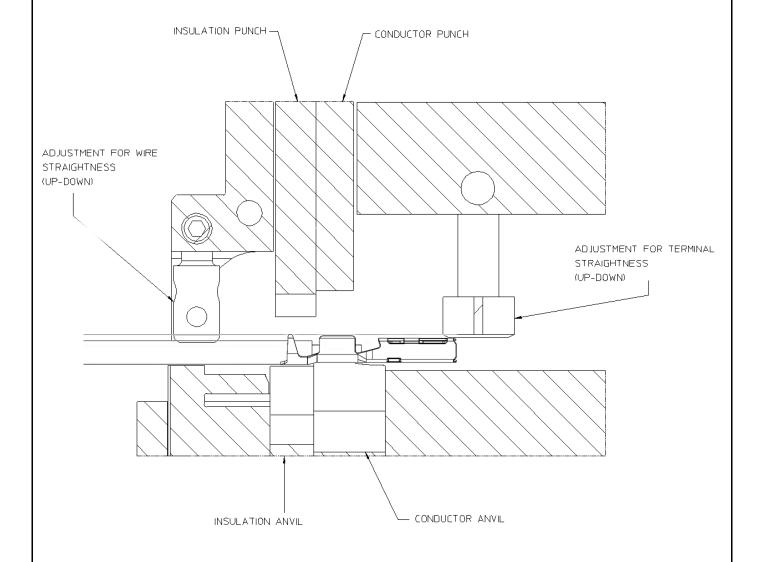


Figure 18

REVISION:	ECR/ECN INFORMATION:	CTX64 MAT SEAL			SHEET No.	
C1	EC No: UAU2016-1050	RECEPTACLE 7.0mm PITCH			15 of 16	
	DATE: 2016 / 01 / 05	APPLICA	APPLICATION SPECIFICATION			
DOCUMENT NUMBER:		CREATED / REVISED BY:	CHECKED BY:	APPROVED BY:		
AS-502306-002		J.Burgio	J.Pruneau	B.Moser		
TEMPLATE FILENAME: CRIMP_SPEC[SIZE_A](V.1).DOC						



8.0 APPLICATION TOOLING

Application Tooling for the CTX64 Receptacle Terminal can be obtained directly from Molex.

To find the proper and latest Molex Application Tooling:

- 1. Go to http://www.molex.com
- 2. Enter the terminal / connector part number into the search box and select the "Go" button.
 - a. Molex part numbers can also be found by searching on the product description.
- 3. Review the Application Tooling available on the right side of the product window.
 - a. It may be necessary to scroll down on the right side of the terminal / connector product page to view all the tooling options.
 - b. Hand tools and manual type tools require the loose terminal / connector part number to be used in the search.
 - c. Applicator or semi-automatic type tools require the reeled terminal / connector part number to be used in the search.
- 4. Select the tool part number link
- 5. Review the tooling page for general tool information
- 6. Open the link for the Application Tooling Specification (ATS) (located on the left under *Specifications & Other Documents*) for additional details such as:
 - a. Termination specifications: crimp height, pull force, wire strip length, insulation diameter, etc.
 - b. Tool information: tool diagram, tool parts list, repair parts, perishable parts list.
- 7. Order Molex Application Tooling through your preferred distributor

Notes:

- 1. Hand crimp tooling can only be used with certain wires and terminal part numbers. Check the Application Tooling Specification Sheet on the Molex website for details.
- 2. Application Tooling product numbers are subject to change without prior notice. Customers are advised to check the Molex website for the most up-to-date information.
- 3. Molex FineAdjust™ and MiniMac™ Application Tooling requires the use of left payoff ("D" Wind) parts.

REVISION:	ECR/ECN INFORMATION:	TITLE: CTX64 MAT SEAL			SHEET No.
C 1	EC No: UAU2016-1050	RECEPTACLE 7.0mm PITCH			16 -4 16
	DATE: 2016 / 01 / 05	APPLICA	16 of 16		
DOCUMENT NUMBER:		CREATED / REVISED BY:	CHECKED BY:	APPROVED BY:	
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