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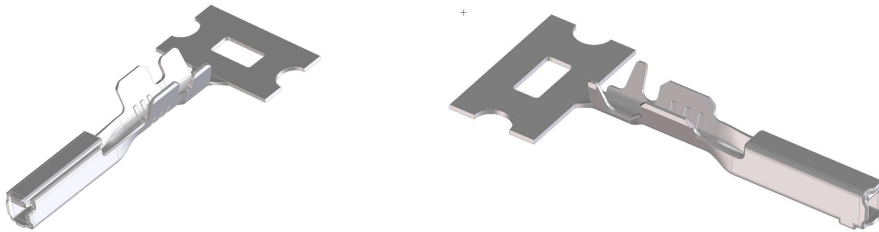
REVISION: <b>A</b>	ECR/ECN INFORMATION: EC No: <b>UAU2013-1181</b> DATE: <b>2013 / 01 / 28</b>	TITLE: <b>MX64 MAT SEAL RECEPTACLE TERMINAL</b>	SHEET No. <b>1 of 5</b>
DOCUMENT NUMBER: <b>PS-33468-001</b>	CREATED / REVISED BY: <b>A. DHIR</b>	CHECKED BY: <b>D. HEMNANI</b>	APPROVED BY: <b>B.MOSER</b>

## MX64 MAT SEAL RECEPTACLE TERMINAL

### 1.0 SCOPE

This product specification covers the MX64 Mat Seal Receptacle terminal crimped to an array of wires utilizing crimp technology.

### 2.0 PRODUCT DESCRIPTION



### 2.1 PRODUCT NAME AND ATTRIBUTES

Terminal Family	Gender	Sealing	Plating	Grip Size	Special Characteristics	Current Rating
MX64	Receptacle	Mat Seal	Sn	S	ISO Grip	9A
MX64	Receptacle	Mat Seal	Au	S	ISO Grip	9A
MX64	Receptacle	Mat Seal	Ag	S	ISO Grip	9A
MX64	Receptacle	Mat Seal	Sn	L	ISO Grip	11.3A
MX64	Receptacle	Mat Seal	Au	L	ISO Grip	11.3A
MX64	Receptacle	Mat Seal	Ag	L	ISO Grip	11.3A
MX64	Receptacle	Mat Seal	Sn	S	SAE Grip	8.6A
MX64	Receptacle	Mat Seal	Au	S	SAE Grip	8.6A
MX64	Receptacle	Mat Seal	Ag	S	SAE Grip	8.6A
MX64	Receptacle	Mat Seal	Sn	L	SAE Grip	11.3A
MX64	Receptacle	Mat Seal	Au	L	SAE Grip	11.3A
MX64	Receptacle	Mat Seal	Ag	L	SAE Grip	11.3A

### 2.2 DIMENSIONS, MATERIALS, PLATINGS AND MARKINGS

All dimensions, terminal materials, plating descriptions and ID locations can be found on the applicable sales drawing.

### 2.3 FEATURES AND BENEFITS

- High performance copper alloy
- One piece terminal design
- Accepts 0.64mm square blade
- Accepts 0.64mm thick X 1.0mm wide blade
- Molex cavity compatible
- High current carrying capability
- All terminals validated to USCAR-21 crimp performance requirements across a wide array of wires
- All terminals validated to USCAR-2 terminal performance requirements

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### 3.0 APPLICABLE DOCUMENTS AND SPECIFICATIONS

Description	Document Number
Sales Drawing	SD-33468-001 (SAE grip)
	SD-33468-002 (ISO grip)
Application Specification (Crimp)	AS-33468-001 (SAE grip)
	AS-33468-002 (ISO grip)
Packaging Specification	PK-31300-516

### 4.0 SAFETY AGENCY APPROVALS

Agency	Approval Status
CSA File Number	Not Applicable
TUV License number	Not Applicable
UL File Number	Not Applicable
IMDS	Available upon request
Environmental Compliance	Available on molex.com

### 5.0 RATINGS / PERFORMANCE / VALIDATION

#### 5.1 ELECTRICAL

##### 5.1.3 TERMINAL CURRENT DERATING CURVES

Item	Description	Condition	Rating
5.1.1	Operating Voltage	Applied voltage during operation	14 Volts DC Maximum
5.1.2	Crimp Resistance	Post environment crimp resistance	Change in crimp resistance $\leq$ 0.33m $\Omega$ or $\leq$ 0.55m $\Omega$ crimp resistance.

This test is used to determine the maximum test current at which a terminal system can operate in a room temperature environment before excessive thermal degradation and/or resistance begins to occur. Temperature Rise (Y axis) vs. Current (X axis) shall be plotted for each applicable conductor size.

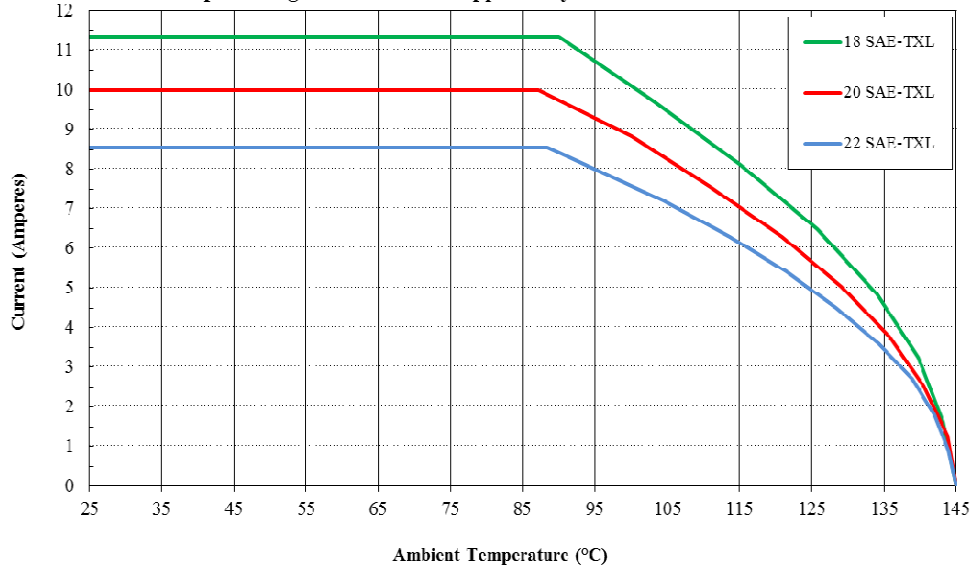
CAUTION: These graphs are NOT to be used for actual terminal application in a vehicle. This test is conducted on terminals alone, thus eliminating the variation that may be introduced by variations in the heat dissipating characteristics of differing connector housing designs and sizes. This test cannot establish the Maximum Current Capability of a specific terminal application. For specific applications, several factors other than current load must be considered (see SAE/USCAR-2 appendix F for more information).

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### 5.1.3.1 SAE (SD-33468-001) GRIP RECEPTACLE TERMINAL USCAR DERATING CURVE

MX64 SAE Electrodeposited Gold, Silver and Tin  
Current Carrying Capacity Derating Curve  
Tested per USCAR-2 Rev 4 Section 5.3.3

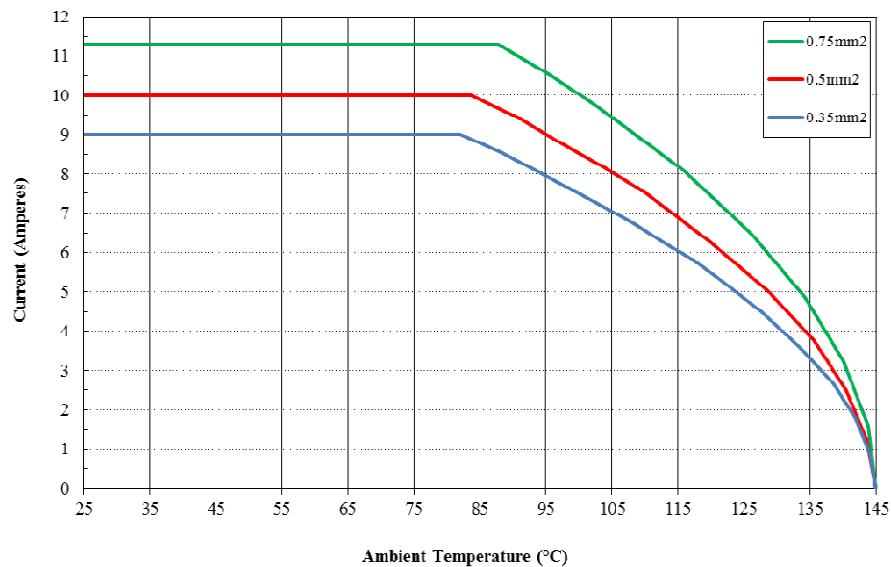
Receptacle High Performance Copper Alloy Mated to C26000 Blade



### 5.1.3.2 ISO (SD-33468-002) GRIP RECEPTACLE TERMINAL USCAR DERATING CURVE

MX64 ISO with Electrodeposited Tin, Gold and Silver  
Current Carrying Capacity Derating Curve  
Tested per USCAR-2 Rev 5 Section 5.3.3

Receptacle High Performance Copper Alloy Mated to C26000 Blade



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## 5.2 TEMPERATURE

Non-operating temperature: - 40°C to +125°C

Operating temperature: - 40°C to +125°C

**\*\*For terminal validation information contact your Molex Sales Engineer**

**\*\*For connector system level performance see related product specification**

## 6.0 PACKAGING

Parts are packaged to protect against damage during handling, transit and storage. Please refer to PK-31300-516 reel wind direction. Terminals on reels should be stored in original packaging until ready for use. Storage temperature is recommended between 65 and 95°F (18 and 35°C) and storage humidity at less than 85% relative humidity. Under these conditions Molex recommended shelf life is 12 months from manufacturing date on terminal reel.

## 7.0 GAGES AND FIXTURES

Gages and Fixtures are referenced in the appropriate control plans of the receptacle terminals. For terminal electrical checking, please refer to the related connector application specification.

## 8.0 OTHER INFORMATION / MISCELLANEOUS

MOLEX REPRESENTS AND WARRANTS TO BUYER FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF DELIVERY OF THE PRODUCTS THAT:

- 1) THE PRODUCTS SHALL CONFORM TO THE MOLEX SPECIFICATIONS FOR THE PRODUCTS IN FORCE AT THE DATE OF DELIVERY OF THE PRODUCTS TO BUYER, AND
- 2) THE PRODUCTS SHALL BE FREE FROM DEFECTS IN MATERIALS AND MANUFACTURING.

EXCEPT AS EXPRESSLY PROVIDED ABOVE, MOLEX MAKES NO WARRANTY, EXPRESS OR IMPLIED, REGARDING THE PRODUCTS. ALL IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE, ARE HEREBY DISCLAIMED. IN ADDITION, MOLEX EXPRESSLY DISCLAIMS ANY WARRANTY OBLIGATIONS IN THOSE INSTANCES WHERE THE FAILURES RESULTED FROM THE MODIFICATION OF THE PRODUCTS BY BUYER OR ITS CUSTOMERS, IMPROPER HANDLING, USE OR INSTALLATION OF THE PRODUCTS BY BUYER OR ITS CUSTOMERS, OR ANY OTHER CAUSE BEYOND THE CONTROL OF MOLEX.

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