# Table of Contents

## *PPAP Package for:*

**Customer Name: Newark Electronics**
**Customer Part Number: 17R2481**
**(TE Connectivity Part Number:1-968855-2**
**Date: 3/3/2020**

# Nondisclosure Agreement

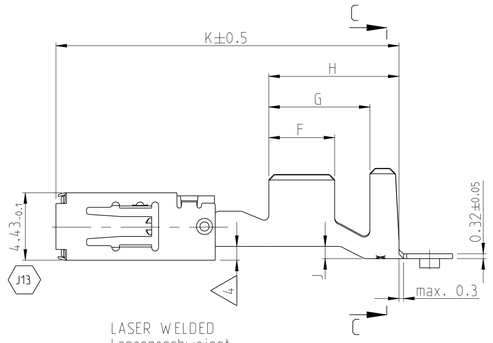
If a nondisclosure agreement has been reached with your company, it will be included on the following page(s). Please review the terms of this agreement to ensure that further actions associated with information contained within this PPAP package do not violate these terms.

If a nondisclosure agreement HAS NOT been reached, certain documents deemed confidential by TE Connectivity will not be included in this PPAP package. These documents include but are not limited to the Design FMEA, the Process Flow Diagram, the Process FMEA and the Control Plan. These documents can be reviewed by you company but cannot be retained.

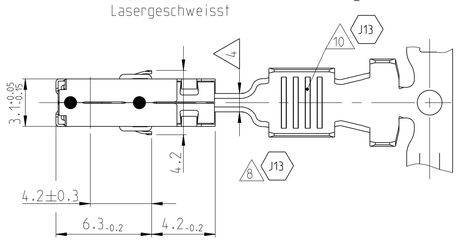
# Section 1

# Design Records

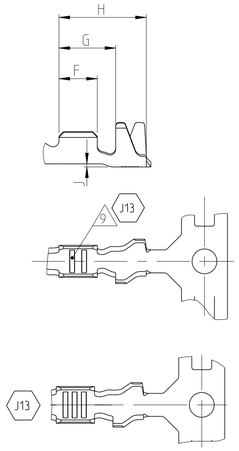
# STANDARDCRIMP



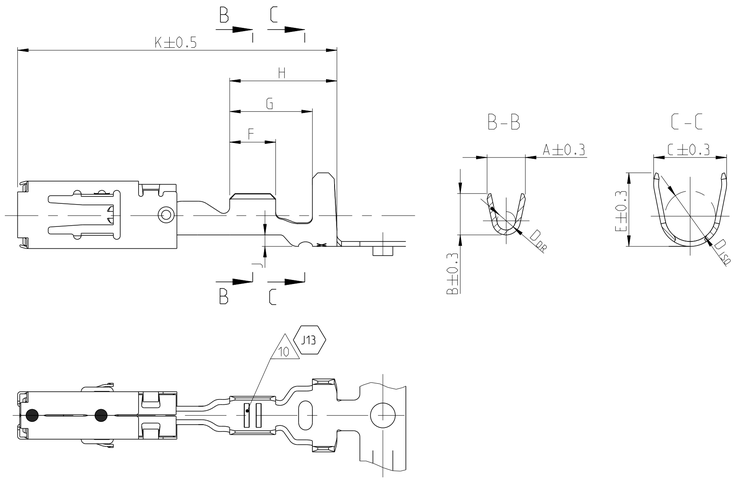

LASER WELDED
Lasergeschweisst




ONLY FOR WIRE SIZE RANGE
Nur fuer DGB
0.2 ... 0.5 mm²




# SINGLE WIRE SEAL
# Einzeldichtungssystem




| REVISIONS | | | | | |
|---|---|---|---|---|---|
| P | LTR | DESCRIPTION | DATE | DWN | APVD |
| | J10 | ECR-14-010789 | 18JUL2014 | Joas | Leim |
| | J11 | NOTE 8 ADDED. TABLE UPDATE WITH PNs 1-...-4 | 17MAY2017 | MAH. | SBEC |
| | J12 | PNs 1-968855-4, 1-968857-4, 1-968859-4 OBSOLETE ON DRW. | 05MAR2018 | MAH. | SBEC |
| | J13 | Added PN 2-968851-3, 2-968853-3 2-968857-3 and 2-968859-3 | 07MAI2018 | FRAN | BECK |

SINGLE WIRE SEAL / Einzeldichtung

STANDARDCRIMP

CuNiSi
X10CrNi18-8

SEE APPLICATION SPECIFICATION 114-18148
siehe Verarbeitungsspezifikation 114-18148

| VERSION Ausfuehrung | ORDER-NO. STRIP-FORM Bestell-Nr. Bandware | REV | BODY / MATERIAL Werkstoff | SPRING | SURFACE Oberflaeche | WIRE SIZE RANGE Leiter-querschnitt mm² | INSULATION DIAMETER Isolations-durchmesser mm | A | B | $D_{DR}$ | C | E | $D_{ISO}$ | F | G | H | J | K | WEIGHT Gewicht g | SINGLE WIRE SEAL Einzeldichtung TE CONNECTIVITY NO. | DEAD END PLUG Blindstopfen TE CONNECTIVITY NO. | APPLICATION TOOLS Verarbeitungswerkzeuge |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | WIRE CRIMP Drahtcrimp | | | INSULATION CRIMP Isolationscrimp | | | | | | | | | | |
| | | | | | | | | STRIP FORM Bandware | | | | | | | | | | | | | |
| | | | | | | | | CRIMP DIMENSIONS / Crimpabmessungen mm | | | | | | | | | | | | | |
| | 1-1719506-3 | A | | | SILVER PLATED versilbert | 12 AWG | 3.0 - 3.8 | 4.0 | 4.2 | 2.0 | 5.0 | 5.0 | 3.5 | 3.5 | 5.9 | 7.5 | 0.8 | 21.0 | 0.59 | 828905-1 | 828922-1 |
| | 1-1719506-1 | A | | | PRE TIN PLATED verzinnt | | | | | | | | | | | | | | | | |
| J13 | 8 2-968859-3 | D | | | SILVER PLATED versilbert | 4 | 3.4 - 3.7 | 4.5 | 4.7 | 2.3 | 6.0 | 6.0 | 4.3 | 4.3 | 7.0 | 8.5 | 1.25 | 22.6 | 0.65 | 828985-1 | 828986-1 |
| | 1-968859-3 | E | | | SILVER PLATED versilbert | | | | | | | | | | | | | | | | |
| | 1-968859-1 | E | | | PRE TIN PLATED verzinnt | | | | | | | | | | | | | | | | |
| J13 | 8 2-968857-3 | B | | | SILVER PLATED versilbert | 1.5 - 2.5 | 2.2 - 3.0 | 3.6 | 3.8 | 1.7 | 5.0 | 5.0 | 3.5 | 3.5 | 6.0 | 7.6 | 0.8 | 21.0 | 0.58 | 828905-1 | 828922-1 |
| | 1-968857-3 | E | | | SILVER PLATED versilbert | | | | | | | | | | | | | | | | |
| | 1-968857-2 | D | | | GOLD PLATED vergoldet | | | | | | | | | | | | | | | | |
| | 1-968857-1 | E | | | PRE TIN PLATED verzinnt | | | | | | | | | | | | | | | | |
| | 1-968855-3 | E | | | SILVER PLATED versilbert | 0.5 - 1.0 | 1.4 - 2.1 | 2.5 | 2.7 | 1.2 | 4.8 | 4.8 | 3.3 | 3.0 | 5.6 | 7.2 | 0.75 | 21.0 | 0.54 | 828904-1 | 828922-1 |
| | 1-968855-2 | E | | | GOLD PLATED vergoldet | | | | | | | | | | | | | | | | |
| | 1-968855-1 | E | | | PRE TIN PLATED verzinnt | | | | | | | | | | | | | | | | |
| J13 | 1-2141859-3 | A | | | SILVER PLATED versilbert | 0.2 - 0.5 | 1.2 - 1.4 | 2.4 | 2.3 | 1.0 | 4.5 | 4.5 | 3.2 | 2.5 | 5.1 | 6.7 | 0.75 | 21.0 | 0.52 | 828904-1 | 828922-1 |
| J13 | 1-2141859-2 | A | | | GOLD PLATED vergoldet | | | | | | | | | | | | | | | | |
| J13 | 1-2141859-1 | A | | | PRE TIN PLATED verzinnt | | | | | | | | | | | | | | | | |
| J13 | 9 1-968882-3 | E | | | SILVER PLATED versilbert | 0.2 - 0.5 | 1.2 - 1.4 | 2.1 | 2.1 | 0.8 | 4.5 | 4.5 | 3.2 | 2.5 | 5.1 | 6.7 | 0.75 | 21.0 | 0.52 | 828904-1 | 828922-1 |
| J13 | 9 1-968882-2 | E | | | GOLD PLATED vergoldet | | | | | | | | | | | | | | | | |
| J13 | 9 1-968882-1 | E | | | PRE TIN PLATED verzinnt | | | | | | | | | | | | | | | | |
| J13 | 8 2-968853-3 | D | | | SILVER PLATED versilbert | 4 | 2.7 - 3.7 | 4.5 | 4.7 | 2.3 | 5.7 | 5.9 | 3.3 | 4.3 | 6.8 | 8.7 | 0.8 | 22.6 | 0.65 | - | - |
| | 1-968853-3 | E | | | SILVER PLATED versilbert | | | | | | | | | | | | | | | | |
| | 1-968853-1 | E | | | PRE TIN PLATED verzinnt | | | | | | | | | | | | | | | | |
| J13 | 8 2-968851-3 | D | | | SILVER PLATED versilbert | 1.5 - 2.5 | 2.2 - 3.0 | 3.6 | 3.8 | 1.7 | 4.6 | 4.8 | 2.6 | 3.5 | 5.1 | 6.7 | 0.3 | 20.2 | 0.56 | - | - |
| | 1-968851-3 | E | | | SILVER PLATED versilbert | | | | | | | | | | | | | | | | |
| | 1-968851-2 | E | | | GOLD PLATED vergoldet | | | | | | | | | | | | | | | | |
| | 1-968851-1 | E | | | PRE TIN PLATED verzinnt | | | | | | | | | | | | | | | | |
| | 1-968849-3 | E | | | SILVER PLATED versilbert | 0.5 - 1.0 | 1.4 - 2.1 | 2.5 | 2.7 | 1.2 | 3.3 | 3.5 | 1.8 | 3.0 | 4.6 | 6.2 | 0.2 | 20.2 | 0.51 | - | - |
| | 1-968849-2 | E | | | GOLD PLATED vergoldet | | | | | | | | | | | | | | | | |
| | 1-968849-1 | E | | | PRE TIN PLATED verzinnt | | | | | | | | | | | | | | | | |
| J13 | 1-2141857-3 | A | | | SILVER PLATED versilbert | 0.2 - 0.5 | 1.2 - 1.4 | 2.4 | 2.3 | 1.0 | 2.9 | 2.9 | 1.4 | 2.5 | 3.8 | 5.7 | 0.2 | 20.2 | 0.48 | - | - |
| J13 | 1-2141857-1 | A | | | PRE TIN PLATED verzinnt | | | | | | | | | | | | | | | | |
| | 9 1-968880-3 | E | | | SILVER PLATED versilbert | 0.2 - 0.5 | 1.2 - 1.4 | 2.1 | 2.1 | 0.8 | 2.9 | 2.9 | 1.4 | 2.5 | 3.8 | 5.7 | 0.2 | 20.2 | 0.48 | - | - |
| | 9 1-968880-1 | E | | | PRE TIN PLATED verzinnt | | | | | | | | | | | | | | | | |

NOTES:
Bemerkungen:

1 MATING PART SEE INTERFACE DRAWING
TE-NO.: 114-18230-002
Gegenstecker nach Ausfuehrungsvorschrift
TE-Nr.: 114-18230-002

2 SURFACE:
- PRE TIN PLATED 1 TO 3 µm
- GOLD PLATED MIN. 2 µm (ONLY CONTACT AREA)
- SILVER PLATED 3 TO 5 µm (ONLY CONTACT AREA)

Oberflaeche:
- verzinnt 1 bis 3 µm
- vergoldet min. 2 µm (nur Kontaktzone)
- versilbert 3 bis 5 µm (nur Kontaktzone)

3 DOUBLE CRIMPS ARE ONLY POSSIBLE WITH
APPLICATORS AUTHORIZED BY TE (NO HAND TOOL)
SUITABLE TOOLS ON REQUEST
Doppelanschlaege sind nur mit von TE zugelassenen
Anschlagwerkzeugen moeglich (keine Handzangen)
passende Werkzeuge auf Anfrage

4 GAUGE INSPECTION
Lehrenpruefung

5 DETAILS OF DESIGN ARE LEFT TO MANUFACTURER
Einzelheiten der Ausfuehrung bleiben dem Hersteller ueberlassen

6 ONLY GERMAN LANGUAGE VERSION SHALL BE BINDING
Massgebend ist der deutsche Text

7 PUNCHING OIL RAZIOL CLF 11 SG
Stanzoel:

J13 8 "Ag+" MARKING ON SILVER PLATED VERSIONS FOR INCREASED LIMIT TEMPERATURE
"Ag+" Markierung auf versilberten Versionen fuer erhoehte Grenztemperatur

J13 9 968880 nicht fuer Neuanwendungen, wird ersetzt durch 2141857
968882 nicht fuer Neuanwendungen, wird ersetzt durch 2141859
968880 SUPERSEDED BY PN 2141857
968880 SUPERSEDED BY PN 2141857

J13 10 Unterschiedliche Ausfuehrung und Anzahl der Rillen moeglich
DIFFERENT FORM AND NUMBER OF THE SERRATIONS POSSIBLE

| | | | |
|---|---|---|---|
| THIS DRAWING IS A CONTROLLED DOCUMENT. | DWN S. Blidar 22SEP97 | TE Connectivity | |
| | CHK G. Hotea 22SEP97 | | |
| DIMENSIONS: mm | APVD J. Woller 22SEP97 | NAME PRODUCT GROUP DRAWING FOR Tabellenzeichnung fuer AMP MCP 2.8 | |
| TOLERANCES UNLESS OTHERWISE SPECIFIED: 1 PLC ±0.2, 2 PLC ±0.4, 3 PLC ±0.8, ANGLES ±1° | PRODUCT SPEC 108-18513 | | |
| | APPLICATION SPEC 114-18148 | SIZE A1 / CAGE CODE 00779 / DRAWING NO C-1355036 | RESTRICTED TO - |
| MATERIAL - / FINISH - | WEIGHT - | CUSTOMER DRAWING | SCALE 5:1 / SHEET 1 OF 1 / REV J13 |

4805 (3/13)

# Section 2

# Engineering Change Documents

# Product Change Notification

Current Date: 03-Mar-2020

## TE Connectivity

**Product Change Notification:** E-18-006008 **PCN Date:** 14-AUG-18

TE would like to inform you of the following change(s) to the listed TE Connectivity Product. In case of any further questions about this change(s), please contact your TE Connectivity Sales Engineer. Affected part, drawing and/or specification numbers are listed on the attached sheet(s).

| **General Product Description:** |
|---|
| PRODUCT GROUP DRAWING FOR Tabellenzeichnung fuer AMP MCP 2.8 |

| **Description of Changes** |
|---|
| New PNs added, 2-968851-3 with Revision D, 2-968853-3 with Revision D, 2-968857-3 with Revision B, 2-968859-3 with Revision D, 1-2141857-1 with Revision A, 1-2141857-3 with Revision A, 1-2141859-1 with Revision A, 1-2141859-2 with Revision A, 1-2141859-3 with Revision A. New Note 8, 9 and 10 added. Changed dimension from 4,4-0,1 to 4,43-0,1. Changed dimension G at PN 1-968880-1, PN 1-968880-2, PN 1-214857-1, PN 1-214857-3, PN 1-968859-1, PN 1-968859-3. Changed dimension G and F under PN 1-968853-1, PN 1-968853-3, PN 1-968882-1, PN 1-968882-2, PN 1-968882-3, PN 1-2141859-1, PN 1-2141859-2, PN 1-2141859-3, PN 1-968855-1, PN 1-968855-2, PN 1-968855-3, PN 1-968857-1 and PN 1-968857-3.<br>**Other attachments:**<br>E-18-006008<br>E-18-006008-PowerPoint<br>E-18-006008<br>E-18-006008-PowerPoint |

| **Reason for Changes:** | |
|---|---|
| New Product. New Production Introduction. | |
| **Estimated Dates:** | |
| **Last Order Date** (Obsolete Parts Only): | **First Date To Ship** (Changed Parts Only): |
| **Last Ship Date** (Obsolete Parts Only): | **Last Date for Mixed Shipments:** (Changed Parts Only): |
| | No Mixed Shipments |

The documents listed below are being modified. Related parts that are not explicitly listed on this PCN are not being modified or discontinued as per the PCN. The Last Order Date, Last Ship Date, First Date to Ship Changed Parts and last date for Mixed Shipments apply only to parts explicitly listed on this PCN.

**Note: This PCN contains only document changes, these changes do not affect the form, fit or function of the parts referenced.**

**Customer Drawing(s) Being Modified:**

| Drawing Number | Current Revision | New Revision |
|---|---|---|
| 1355036 | J12 | |

# Section 3

# Customer Engineering Approval

# Not Applicable

# Section 4

# Design FMEA

**See Section A for nondisclosure conditions.**
**The Design FMEA, if included, is a Class II confidential document belonging to TE Connectivity. A class II document may not be further distributed and is subject to the conditions of the nondisclosure agreement.**

# Section 5

# Process Flow Diagram

**See Section A for nondisclosure conditions.**
**The Process Flow Diagram, if included, is a Class II confidential document belonging to TE Connectivity. A class II document may not be further distributed and is subject to the conditions of the nondisclosure agreement.**

# Section 6

# Process FMEA

**See Section A for nondisclosure conditions.**
**The Process FMEA, if included, is a Class II confidential document belonging to TE Connectivity. A class II document may not be further distributed and is subject to the conditions of the nondisclosure agreement.**

# Section 7

# Control Plan

**See Section A for nondisclosure conditions.**
**The Control Plan, if included, is a Class II confidential document belonging to TE Connectivity. A class II document may not be further distributed and is subject to the conditions of the nondisclosure agreement.**

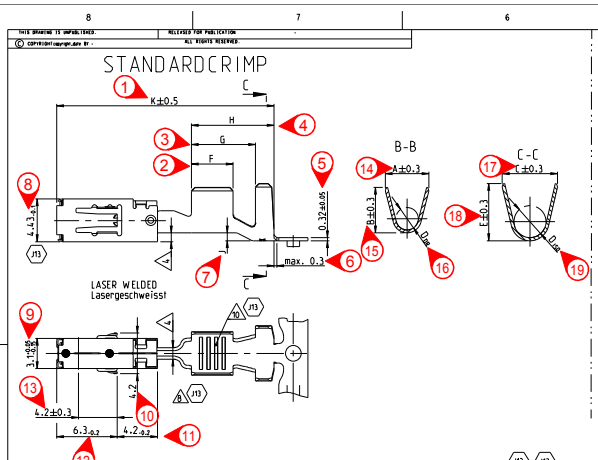
# Section 8

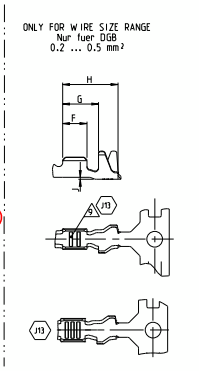
# Measurement System Analysis

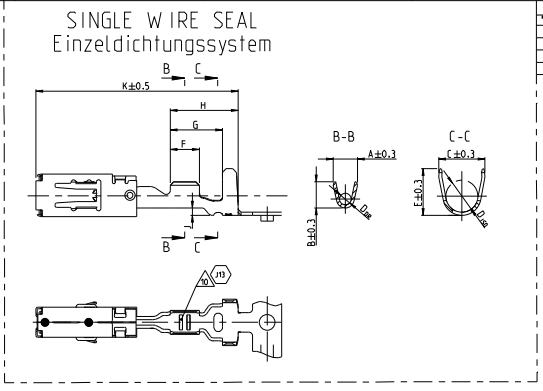
# Not Applicable

# Section 9

# Dimensional Results




REVISIONS

| P | LTR | DESCRIPTION | DATE | DRN | APVD |
|---|---|---|---|---|---|
| | J10 | ECR-14-010709 | 18.AUG.2014 | Joas | Lein |
| | J11 | NOTE 8 ADDED. TABLE UPDATE WITH PNs 9-...4 | 17MAY2017 | MAH. | SBEC |
| | J12 | PNs 1-968855-4, 1-968857-4, 1-968859-4 OBSOLETE ON ERP# | 05MAR2018 | MAH. | SBEC |
| | J13 | Added PN 2-968855-3, 2-968853-3 2-968857-3 and 2-968859-3 | 07MAI2018 | RAN | BECK |

SEE APPLICATION SPECIFICATION 114-18148
Siehe Verarbeitungsspezifikation 114-18148

| VERSION Ausführung | ORDER-NO. STRIP-FORM Bestell-Nr. Bandware | REV | MATERIAL BODY Werkstoff | SPRING | SURFACE Oberfläche 2 | WIRE SIZE RANGE Leiter-querschnitt mm 2 | INSULATION DIAMETER Isolations-durchmesser mm | A | B | $D_{DR}$ | C | E | $D_{ISO}$ | F | G | H | J | K | WEIGHT Gewicht g | SINGLE WIRE SEAL Einzeldichtung | TE CONNECTIVITY NO. | DEAD END PLUG Blindstopfen | TE CONNECTIVITY NO. | APPLICATION TOOLS Verarbeitungswerkzeuge |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | WIRE CRIMP Drahtcrimp | | | INSULATION CRIMP Isolationscrimp | | | | | | | | | | | | | |
| | | | | | | | | STRIP FORM Bandware | | | | | | | | | | | | | | | | |
| | | | | | | | | CRIMP DIMENSIONS / Crimpabmessungen mm | | | | | | | | | | | | | | | | |
| STANDARDCRIMP | 1-1719506-3 | A | X10CrNi18-8 | CuNiSi | SILVER PLATED versilbert | 12 AWG | 3.0 - 3.8 | 4.0 | 4.2 | 2.0 | 5.0 | 5.0 | 3.5 | 3.5 | 5.9 | 7.5 | 0.8 | 21.0 | 0.59 | 828905-1 | 828922-1 | | | |
| | 1-1719506-1 | A | | | PRE TIN PLATED versilbert | | | | | | | | | | | | | | | | | | | |
| | 2-968859-3 | D | | | SILVER PLATED versilbert | 4 | 3.4 - 3.7 | 4.5 | 4.7 | 2.3 | 6.0 | 6.0 | 4.3 | 4.3 | 7.0 | 8.5 | 1.25 | 22.6 | 0.65 | 828985-1 | 828986-1 | | | |
| | 1-968859-3 | E | | | PRE TIN PLATED versilbert | | | | | | | | | | | | | | | | | | | |
| | 1-968859-1 | E | | | | | | | | | | | | | | | | | | | | | | |
| | 2-968857-3 | B | | | SILVER PLATED versilbert | 1.5 - 2.5 | 2.2 - 3.0 | 3.6 | 3.8 | 1.7 | 5.0 | 5.0 | 3.5 | 3.5 | 6.0 | 7.6 | 0.8 | 21.0 | 0.58 | 828905-1 | 828922-1 | | | |
| | 1-968857-3 | E | | | GOLD PLATED vergoldet | | | | | | | | | | | | | | | | | | | |
| | 1-968857-2 | D | | | PRE TIN PLATED verzinnt | | | | | | | | | | | | | | | | | | | |
| | 1-968857-1 | E | | | | | | | | | | | | | | | | | | | | | | |
| | 1-968855-3 | E | | | SILVER PLATED versilbert | 0.5 - 1.0 | 1.4 - 2.1 | 2.5 | 2.7 | 1.2 | 4.8 | 4.8 | 3.3 | 3.0 | 5.6 | 7.2 | 0.75 | 21.0 | 0.54 | 828904-1 | 828922-1 | | | |
| | 1-968855-2 | E | | | GOLD PLATED vergoldet | | | | | | | | | | | | | | | | | | | |
| | 1-968855-1 | E | | | PRE TIN PLATED verzinnt | | | | | | | | | | | | | | | | | | | |
| | 1-2141859-3 | A | | | SILVER PLATED versilbert | 0.2 - 0.5 | 1.2 - 1.4 | 2.4 | 2.3 | 1.0 | 4.5 | 4.5 | 3.2 | 2.5 | 5.1 | 6.7 | 0.75 | 21.0 | 0.52 | 828904-1 | 828922-1 | | | |
| | 1-2141859-2 | A | | | GOLD PLATED vergoldet | | | | | | | | | | | | | | | | | | | |
| | 1-2141859-1 | A | | | PRE TIN PLATED verzinnt | | | | | | | | | | | | | | | | | | | |
| | 1-968882-3 | E | | | SILVER PLATED versilbert | 0.2 - 0.5 | 1.2 - 1.4 | 2.1 | 2.1 | 0.8 | 4.5 | 4.5 | 3.2 | 2.5 | 5.1 | 6.7 | 0.75 | 21.0 | 0.52 | 828904-1 | 828922-1 | | | |
| | 1-968882-2 | E | | | GOLD PLATED vergoldet | | | | | | | | | | | | | | | | | | | |
| | 1-968882-1 | E | | | PRE TIN PLATED verzinnt | | | | | | | | | | | | | | | | | | | |
| | 2-968853-3 | D | | | SILVER PLATED versilbert | 4 | 2.7 - 3.7 | 4.5 | 4.7 | 2.3 | 5.7 | 5.9 | 3.3 | 4.3 | 6.8 | 8.7 | 0.8 | 22.6 | 0.65 | - | - | | | |
| | 1-968853-3 | E | | | PRE TIN PLATED versilbert | | | | | | | | | | | | | | | | | | | |
| | 1-968853-1 | E | | | | | | | | | | | | | | | | | | | | | | |
| | 2-968851-3 | D | | | SILVER PLATED versilbert | 1.5 - 2.5 | 2.2 - 3.0 | 3.6 | 3.8 | 1.7 | 4.6 | 4.8 | 2.6 | 3.5 | 5.1 | 6.7 | 0.3 | 20.2 | 0.56 | - | - | | | |
| | 1-968851-3 | E | | | GOLD PLATED vergoldet | | | | | | | | | | | | | | | | | | | |
| | 1-968851-2 | E | | | PRE TIN PLATED verzinnt | | | | | | | | | | | | | | | | | | | |
| | 1-968851-1 | E | | | | | | | | | | | | | | | | | | | | | | |
| | 1-968849-3 | E | | | SILVER PLATED versilbert | 0.5 - 1.0 | 1.4 - 2.1 | 2.5 | 2.7 | 1.2 | 3.3 | 3.5 | 1.8 | 3.0 | 4.6 | 6.2 | 0.2 | 20.2 | 0.51 | - | - | | | |
| | 1-968849-2 | E | | | GOLD PLATED vergoldet | | | | | | | | | | | | | | | | | | | |
| | 1-968849-1 | E | | | PRE TIN PLATED verzinnt | | | | | | | | | | | | | | | | | | | |
| | 1-2141857-3 | A | | | SILVER PLATED versilbert | 0.2 - 0.5 | 1.2 - 1.4 | 2.4 | 2.3 | 1.0 | 2.9 | 2.9 | 1.4 | 2.5 | 3.8 | 5.7 | 0.2 | 20.2 | 0.48 | - | - | | | |
| | 1-2141857-1 | A | | | PRE TIN PLATED verzinnt | | | | | | | | | | | | | | | | | | | |
| | 1-968880-3 | E | | | SILVER PLATED versilbert | 0.2 - 0.5 | 1.2 - 1.4 | 2.1 | 2.1 | 0.8 | 2.9 | 2.9 | 1.4 | 2.5 | 3.8 | 5.7 | 0.2 | 20.2 | 0.48 | - | - | | | |
| | 1-968880-1 | E | | | PRE TIN PLATED verzinnt | | | | | | | | | | | | | | | | | | | |

NOTES:
Bemerkungen:

1 MATING PART SEE INTERFACE DRAWING
TE-NO.: 114-18230-002
Gegenstecker nach Ausfuehrungsvorschrift
TE-Nr.: 114-18230-002

2 SURFACE:
- PRE TIN PLATED 1 TO 3 µm
- GOLD PLATED MIN. 2 µm (ONLY CONTACT AREA)
- SILVER PLATED 3 TO 5 µm (ONLY CONTACT AREA)

Oberflaeche:
- verzinnt 1 bis 3 µm
- vergoldet min. 2 µm (nur Kontaktzone)
- versilbert 3 bis 5 µm (nur Kontaktzone)

3 DOUBLE CRIMPS ARE ONLY POSSIBLE WITH
APPLICATORS AUTHORIZED BY TE (NO HAND TOOL)
SUITABLE TOOLS ON REQUEST
Doppelanschlaege sind nur mit von TE zugelassenen
Anschlagwerkzeugen moeglich (keine Handzangen)
passende Werkzeuge auf Anfrage

2 GAUGE INSPECTION
Lehrenpruefung

5 DETAILS OF DESIGN ARE LEFT TO MANUFACTURER
Einzelheiten der Ausfuehrung bleiben dem Hersteller ueberlassen

6 ONLY GERMAN LANGUAGE VERSION SHALL BE BINDING
Massgebend ist der deutsche Text

7 PUNCHING OIL RAZIOL CLF 11 SG
Stanzoel:

J13 8 "Ag-" MARKING ON SILVER PLATED VERSIONS FOR INCREASED LIMIT TEMPERATURE
"Ag-" Markierung auf versilberten Versionen fuer erhoehte Grenztemperatur

J13 9 968880 nicht fuer Neuanwendungen, wird ersetzt durch 2141857
968882 nicht fuer Neuanwendungen, wird ersetzt durch 2141859
968880 SUPERSEDED BY PN 2141857
968882 SUPERSEDED BY PN 2141859

J13 10 Unterschiedliche Ausfuehrung und Anzahl der Rillen moeglich
DIFFERENT FORM AND NUMBER OF THE SERRATIONS POSSIBLE

THIS DRAWING IS A CONTROLLED DOCUMENT.
DIMENSIONS: mm
TOLERANCES UNLESS OTHERWISE SPECIFIED: ANGLES ±0.2 ±1°
MATERIAL -
FINISH -
WEIGHT -

| | | |
|---|---|---|
| DES | G. Bulgar | 22SEP97 |
| CHK | G. Heine | 22SEP97 |
| APVD | W. Walter | 22SEP97 |
| PRODUCT SPEC | 108-18513 | |
| APPLICATION SPEC | 114-18148 | |

TE Connectivity

NAME: PRODUCT GROUP DRAWING FOR Tabellenzeichnung fuer AMP MCP 2.8

| SIZE | CAGE CODE | DRAWING NO | RESTRICTED TO |
|---|---|---|---|
| A1 | 00779 | C-1355036 | - |

CUSTOMER DRAWING | SCALE 5:1 | SHEET 1 OF 1 | REV J13

4005 12/131

# Production Part Approval
# Dimension Test Results



18/68277

| | |
|---|---|
| ORGANIZATION: | PART NUMBER 1-968855-2 |
| SUPPLIER/VENDOR COD ***TYCO ELECTRONICS LOGISTICS AG*** | PART NAME AMP MCP 2.8 |
| INSPECTION FACILITY | DESIGN RECORD CHANGE LEVEL: C-1355036 |
| ***STEINACH*** | ENGINEERING CHANGE DOCUMENT J13 |

| ITEM | IMENSION/SPECIFICATIO | SPECIFICATION/ LIMITS | | TEST DATE | QTY. TESTED | ORGANIZATION MEASUREMENT RESULT (DATA) | | | | OK | NOT OK |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | |
| 1 | K= 21.00 | 0.5 | - 0.5 | | | | 21.21 | | | x | |
| 2 | F= 3.00 | 0.2 | -0.2 | | | | 3.01 | | | x | |
| 3 | G= 5.60 | 0.2 | -0.2 | | | | 5.60 | | | x | |
| 4 | H= 7.20 | 0.2 | -0.2 | | | | 7.26 | | | x | |
| 5 | 0.32 | ± 0.05 | ± 0.05 | | | | 0.32 | | | x | |
| 6 | 0.30 | max. | | | | on strip not measureable | | | | | |
| 7 | J= 0.75 | 0.2 | -0.2 | | | | 0.73 | | | x | |
| 8 | 4.43 | | -0.1 | | | | 4.36 | | | x | |
| | | | | | | | | | | | |
| | view bottom | | | | | | | | | | |
| 9 | 3.10 | 0.05 | -0.15 | | | | 3.06 | | | x | |
| 10 | 4.20 | 0.2 | -0.2 | | | | 4.15 | | | x | |
| 11 | 4.20 | | -0.2 | | | | 4.21 | | | x | |
| 12 | 6.30 | | -0.2 | | | | 6.23 | | | x | |
| 13 | 4.20 | 0.3 | -0.3 | | | | 4.19 | | | x | |
| | | | | | | | | | | | |
| | section B-B | | | | | | | | | | |
| 14 | A= 2.50 | 0.3 | -0.3 | | | | 2.57 | | | x | |
| 15 | B= 2.70 | 0.3 | -0.3 | | | | 2.78 | | | x | |
| 16 | DDr= 1.20 | 0.2 | -0.2 | | | | 1.20 | | | x | |
| | | | | | | | | | | | |
| | section C-C | | | | | | | | | | |
| 17 | C= 4.80 | 0.3 | -0.3 | | | | 4.72 | | | x | |
| 18 | E= 4.80 | 0.3 | -0.3 | | | | 4.78 | | | x | |
| 19 | Diso= 3.30 | 0.2 | -0.2 | | | | 3.30 | | | x | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

Blanked statements of conformance are unacceptable for any test results

| SIGNATURE | TITEL | DATE |
|---|---|---|
| Veda Kulkarni | Quality Engineering | 24.09.2018 |

# Production Part Approval
# Material Test Results



18/68277

| | |
|---|---|
| ORGANIZATION: | PART NUMBER 1-968855-2 |
| SUPPLIER/VENDOR COD ***TYCO ELECTRONICS LOGISTICS A*** | PART NAME AMP MCP 2.8 |
| INSPECTION FACILITY ***STEINACH*** | DESIGN RECORD CHANGE LEVEL: C-1355036 |
| | ENGINEERING CHANGE DOCUMENT J13 |

| ITEM | IMENSION/SPECIFICATIO | SPECIFICATION / LIMITS | TEST DATE | QTY. TESTED | ORGANIZATION MEASUREMENT RESULT (DATA) | | | | OK | NOT OK |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | |
| | **Material :** | | | | | | | | | |
| | | | | | | | | | | |
| | **AMP MCP2.8 Flat Type Receptacle** | | | | | | | | | |
| | | | | | | | | | | |
| **1** | **Body** | | | | | | | | | |
| | High Copper Alloy | | | | High Copper Alloy | | | | x | |
| | e-plate Ni | | | | e-plate Ni | | | | x | |
| | e-plate Au | | | | e-plate Au | | | | x | |
| | | | | | | | | | | |
| **2** | **Spring AMP MCP 2.8mm Flat Type Receptacle** | | | | | | | | | |
| | X10CrNi18-8 | | | | X10CrNi18-8 | | | | x | |

Blanked statements of conformance are unacceptable for any test results

| SIGNATURE | TITEL | DATE |
|---|---|---|
| Veda Kulkarni | Quality Engineering | 24.09.2018 |

# Section 10

# Material, Performance Test Results

otelinox
A subsidiary of SAMSUNG C&T

# INSPECTION CERTIFICATE
# 1000519641
(according to DIN EN 10204, type 3.1)

| | |
|---|---|
| **Manufacturer:** | **SC Otelinox SA** |
| Adress: | 16, Gaesti Street, Targoviste, 130087, Romania |

Member of CISQ Federation RINA SIMTEX
CERTIFIED MANAGEMENT SYSTEM IATF 16949
Member of CISQ Federation RINA SIMTEX
CERTIFIED MANAGEMENT SYSTEM ISO 9001
SR AC ISO 14001 SR AC OHSAS 18001 LABORATORY ACCREDITATED BY RENAR ISO/CEI 17025 Cert. no. LI 007

## IDENTITY

| | | |
|---|---|---|
| **Product:** | **CRC/Slit1.4310 HT5 2H 0.14x15.5mm MULTICOIL** | |
| **Customer:** | **TE Connectivity Germany GmbH** | |
| **SO No. / Cust PO.** | **1000324779 / PO 2550146684** | |
| **Customer Art No:** | **705410-4 REV A** | |
| **Otx Art No:** | **N13717M** | |
| **Spec No:** | **EN 10088-2 ; TEC-100-309-2 rev U ; ID 875 Version A1** | |
| **Pallet No.** | **1000519641** | |
| **Coil No.** | **PE24/32-198007/A/4 / 11 12 13 14 15**<br>**PE24/32-198007/A/5 / 10 11 12 13 14 15** | /<br>/ |
| **Net Weight [kg]** | **1,138** | |
| **Heat Treatment** | **Without** | |

## CHEMICAL ANALISYS(%) Heat No: S683936 Melting Process: E

| xxx | C | Mn | Si | P | S | Cr | Ni |
|---|---|---|---|---|---|---|---|
| **Req.** (min-max) | 0.05-0.15 | MAX 2.0 | MAX 2.0 | MAX 0.045 | MAX 0.015 | 16.00-19.00 | 6.00-9.50 |
| **Measured** | 0.1267 | 1.6510 | 0.5040 | 0.03080 | 0.00570 | 16.7700 | 6.1500 |
| **Element** | **Mo** | **Ti** | **N** | **Al** | **Cu** | **Co** | |
| **Req.** (min-max) | MAX 0.8 | xxx | MAX 0.10 | xxx | xxx | xxx | |
| **Measured** | 0.0700 | xxx | 0.0758 | xxx | xxx | xxx | |

## TEST RESULTS

| **Test Direction** | Longitudinal | | | | | |
|---|---|---|---|---|---|---|
| **Position/Test No:** | **T/ 234** | **B/ 235** | | | | |
| **Requirement** | **Rp02(MPa)** | **Rm(MPa)** | **Elong(A80%)** | **HV2** | **Ra(um)** | **Bending Test** |
| **min-max** | min 1,000 | 1,350-1,500 | min 13.0 | xxx | max 0.20 | |
| **T** | 1,163 | 1,455 | 21.0 | 442 | 0.11 | Ok |
| **B** | 1,183 | 1,452 | 20.5 | 440 | 0.12 | Ok |

## GEOMETRY MEASUREMENTS

| **Requirement** | **Thick[mm]** | **Width[mm]** | **Burr[%]** |
|---|---|---|---|
| **Nominal Value** | 0.140 | 15.50 | |
| **min/max** | -0.010/0.007 | -0.05/0.05 | max 5% |
| Min | 0.138 | 15.490 | 2.9 |
| Max | 0.139 | 15.490 | 3.6 |

## Other Test Results

PN-International 0-0705410-4/Rev.O
PN-Germany 1-1262050-0/Rev.A

Surface and dimensional control, material identity test : OK

Marking: Producer Trade Mark, Material, Heat No., Coil No.

Delivered product is in conformity with order requirements.

IL-CQ-1 Targoviste, 10.02.2020 Work Inspector : CUTA VICTORIA

**KMD Connectors Stolberg GmbH**

den 28.02.2020

TE WERK STEINACH/CH
LAGER SCHENKER CRAILSHEIM
LUDWIG ERHARD STRASSE 100

74564 CRAILSHEIM
GERMANY



| Abnahmeprüfzeugnis 3.1<br>EN 10204:2005 | Coil<br>223975S | Herst.<br>KM | Packliste<br>165623 | Auftrag<br>2108951 - 2 | Kunde<br>03004755 |
|---|---|---|---|---|---|

Anzahl 1
Packstuecke WC366351

Gewicht netto 877,00 KG

Ihre Bestellung 2710965271 H. LUTTENBERG
Kunden-Material-Nummer 2-704060-2 Rev M
STOL76 0,320 x 26,00

100-1230 REV R
"NOV-BEHANDELT"

Artikel 7802581

## Mechanische Prüfung

| | | Soll | | Ist | |
|---|---|---|---|---|---|
| | | min. | max. | min. | max. |
| Dicke | mm | 0,31 | 0,322 | 0,31 | 0,313 |
| Breite | mm | 25,9 | 26,1 | 26,02 | 26,04 |
| Zugfestigkeit | \|\| RM N/mm² | 580 | 650 | 627 | 631 |
| Streckgrenze | \|\| RP N/mm² | 540 | | 575 | 576 |
| Bruchdehnung | A 50mm \|\| % | 8 | | 10,8 | 12 |
| Biegbarkeit | \|\| 90° r= 0.48mm BK = | | | rissfrei | rissfrei |
| Biegbarkeit | \|\| 180° r= 1.12mm BK = | | | rissfrei | rissfrei |
| Biegbarkeit | + 90° r= 0.32mm BK = | | | rissfrei | rissfrei |
| Biegbarkeit | + 180° r= 0.80mm BK = | | | rissfrei | rissfrei |
| Leitfähigkeit | m/(Omm²) | 29 | | 31,4 | 31,4 |
| Säbelförmigkeit | mm/ 900 | | 1,6 | 0,24 | 0,33 |
| Ausbiegung | mm/ 900 | | 225 | 3 | 6 |
| Querwölbung | mm/ 26 | | 0,052 | 0,001 | 0,002 |
| Schneidgrat | mm | | 0,032 | 0,006 | 0,011 |
| Oberflächenrauhtiefe Ra | Ra µm | | 0,2 | 0,09 | 0,14 |
| Korngröße | µm | | 25 | 15 | 15 |
| Drall-Grad | °/ 900 | | 10 | 1 | 1 |

## Chemische Zusammensetzung %

bleifrei

| | |
|---|---|
| NI | 1.4815 |
| SI | 0.2532 |
| ANDERE | Rest |

Alle Elemente, die nicht explizit aufgelistet sind, entsprechen in ihren jeweiligen Anteilen der Spezifikation aus Ihrer o.g. Bestellung.

Werkstoffprüfung
Abnahmebeauftragter: Herr Fuchs
(Dieses Schreiben wurde maschinell erstellt und ist auch ohne Unterschrift gültig.)

Telefon :+49 2402 105-516
Fax :+49 2402 105-279
Email :andreas.fuchs@kmdgroup.cor

# Section 11

# Initial Process Studies

# Not Applicable

# Section 12

# Qualified Laboratory Documentation

# CERTIFICATE

This is to certify that

## TE Connectivity Solutions GmbH

Plant Steinach

Amperestr. 3
9323 Steinach
Switzerland

has implemented and maintains a **Quality Management System**.

Scope:
Design and manufacturing of electronic and mechatronic components and connector systems

An audit, conducted and documented in a report, has verified that this quality management system fulfills the requirements of the following International Automotive Standard:

## IATF 16949:2016

(with product design)

| | |
|---|---|
| Certificate registration no. | 515113 IATF16 |
| Main certificate registration no. | 515099 IATF16 |
| Issuing date | 2018-05-19 |
| This certificate is valid until | 2021-05-18 |
| IATF No. | 0306141 |

2-IAO-QMC-01001

**For and on behalf of DQS**

Stefan Heinloth
Managing Director, DQS GmbH

Michael Drechsel
Managing Director, DQS Holding GmbH

IATF Contract Office: DQS Holding GmbH, Konrad-Adenauer-Allee 8-10, 61118 Bad Vilbel, Germany
Issuing Office: DQS GmbH, August-Schanz-Straße 21, 60433 Frankfurt am Main, Germany



2017-12-18

## Annex to certificate registration no.: 515113 IATF16
## IATF-No.: 0306141

# TE Connectivity Solutions GmbH

Plant Steinach

Amperestr. 3
9323 Steinach
Switzerland

2-IAO-QMC-01001

| Remote Location | Scope |
|---|---|
| **515099**<br>**TE Connectivity Germany GmbH**<br>**Amperestr. 12-14**<br>**64625 Bensheim**<br>**Germany** | Continuous Improvement, Customer Service, Human Resource, Internal Audit Management, Management Review, Policy making, Production Equipment Development, Process Design, Product Design, Purchasing, Quality System Management, Sales, Supplier Management |
| **515116**<br>**TE Connectivity Germany GmbH**<br>**Amperestr. 12-14**<br>**73499 Wört**<br>**Germany** | Process Design, Warehousing |
| **515103**<br>**TE Connectivity Germany GmbH**<br>**Amperestr. 11**<br>**91550 Dinkelsbühl**<br>**Germany** | Production Equipment Development, Process Design |
| **515110**<br>**Tyco Electronics France SAS**<br>**1 rue Ampère**<br>**95300 Pontoise**<br>**France** | Customer Service, Product Design, Sales |
| **515514**<br>**Tyco Electronics AMP Italia Products S.r.l.**<br>**Corso Fratelli Cervi 15**<br>**10093 COLLEGNO TORINO**<br>**Italy** | Customer Service, Sales |

## Annex to certificate registration no.: 515113 IATF16
## IATF-No.: 0306141

# TE Connectivity Solutions GmbH

Plant Steinach

Amperestr. 3
9323 Steinach
Switzerland

2-IAO-QMC-01001

| Remote Location | Scope |
|---|---|
| **525517**<br>**TE Connectivity Morocco**<br>**I Lot 60, Zone Franche Tangier**<br>**90 000 Tangier**<br>**Morocco** | Warehousing |
| **525515**<br>**TE Connectivity Tunisia office**<br>**Immeuble Lake Forum,**<br>**4 ème étage 5 rue de la feuille d'érable**<br>**1053 Tunis**<br>**Tunisia** | Warehousing |

# Section 13

# Appearance Approval Report

# Not Applicable

# Section 14

# Sample Product

## Sent in separate package
**(if required)**

# Section 15

# Master Sample

## Retained at manufacturing location

# Section 16

# Checking Aids

# Not Applicable

# Section 17

# Records of Compliance with Customer-Specific Requirements

# MDS Report
# Substances of assemblies and materials



## 1. Company and Product Name

### 1.1 Supplier Data

| | |
|---|---|
| Name [ID]: | **Tyco Electronics GAD [913]** |
| DUNS Number: | **-** |
| Street/Postal Code: | **Amperestr. 12-14** |
| Nat./ZipCode/City: | **DE 64625 Bensheim** |
| Supplier Code: | **-** |
| Contact Person: | **IMDS Team (India) Engineering Services** |
| - Phone: | **-** |
| - Fax No.: | **-** |
| - E-Mail Address: | **IMDS@te.com** |

### 1.2 Product Identification

| | |
|---|---|
| Part/Item No.: | **1-968855-2** |
| Description: | **AMP MCP2.8 Flat Type Receptacle** |
| Report No.: | **-** |
| Date of Report: | **-** |
| Purchase Order No.: | **-** |
| Bill of Delivery No.: | **-** |
| Preliminary MDS: | **No** |
| IMDS ID / Version: | **4998450 / 12** |
| Node ID: | **776707348** |
| MDS Status (Change Date): | **Internally released (10/11/2018)** |

# MDS Report

# Substances of assemblies and materials

**Materials which are subject to legal prohibitions must not be included!**
**Dangerous substances formed or released during use must also be declared**
**Please note: GADSL list for substances that require declaration**

## 2. Characterization of the Component

| | | | |
|---|---|---|---|
| Part/Item No.: | **1-968855-2** | Report No.: | **-** |
| Description: | **AMP MCP2.8 Flat Type Receptacle** | IMDS ID / Version: | **4998450 / 12** |
| | | Node ID: | **776707348** |

| Tree Level | Description<br>Article Name<br>Name<br>Substance name | Part/Item No.<br>Item- /Mat.-No.<br>Material-No.<br>CAS No. | IMDS ID / Version | Quantity | Weight [g] | Portion [%] | Portion (from - to) [%] | Classif.<br>GADSL, SVHC | Parts Marking<br>Recyclate (Indust./Consumer)<br>Application [ID] |
|---|---|---|---|---|---|---|---|---|---|
| 1 | AMP MCP2.8 Flat Type Receptacle | 1-968855-2 | 4998450 / 12 | | 0.4995 | | | | |
| 2 | Body | | | 1 | 0.3795 | | | | |
| 3 | High Copper Alloy | | 158414641 / 4 | | 0.3773 | | | 3.2 | No |
| 4 | Copper | 7440-50-8 | | | | 98.12 | | D | |

| Tree Level | Description / Article Name / Name / Substance name | Part/Item No. / Item- /Mat.-No. / Material-No. / CAS No. | IMDS ID / Version | Quantity | Weight [g] | Portion [%] | Portion (from - to) [%] | Classif. / GADSL, SVHC | Parts Marking / Recyclate (Indust./Consumer) / Application [ID] |
|---|---|---|---|---|---|---|---|---|---|
| 4 | Nickel | 7440-02-0 | | | | 1.3 | 0.8 - 1.8 | D | Not applicable [34] |
| 4 | Phosphorus | 7723-14-0 | | | | 0.03 | 0.01 - 0.05 | | |
| 4 | Silicon | 7440-21-3 | | | | 0.25 | 0.15 - 0.35 | | |
| 4 | Misc., not to declare | system | | | | 0.25 | 0 - 0.5 | | |
| 4 | Silver | 7440-22-4 | | | | 0.05 | 0 - 0.1 | D | |
| 3 | e-plate Ni (bright) (electrodeposited Nickel bright) | | 749088 / 2 | | 0.0021 | | | 3.4 | No |
| 4 | Carbon | 7440-44-0 | | | | 0.05 | 0 - 0.1 | | |
| 4 | Nitrogen | 7727-37-9 | | | | 0.05 | 0 - 0.1 | | |
| 4 | Sulphur | 7704-34-9 | | | | 0.075 | 0.05 - 0.1 | | |
| 4 | Nickel | 7440-02-0 | | | | 99.825 | | D | Other application (Surface not routinely touched or nickel release rate < 0.5µg/cm2/week) [33] |
| 3 | e-plate Au (functional) (electrodeposited functional Gold Coatings) | | 757906 / 2 | | 0.0001 | | | 4.2 | No |
| 4 | Carbon | 7440-44-0 | | | | 0.005 | 0 - 0.01 | | |
| 4 | Nitrogen | 7727-37-9 | | | | 0.05 | 0 - 0.1 | | |
| 4 | Gold | 7440-57-5 | | | | 99.945 | | | |
| 2 | Spring AMP MCP 2.8mm Flat Type Receptacle | 0-0968863-1 | 4003185 / 20 | 1 | 0.12 | | | | |
| 3 | X10CrNi18-8 | | 36413360 / 6 | | 0.12 | | | 1.1.2 | No |

| Tree Level | Description<br>Article Name<br>Name<br>Substance name | Part/Item No.<br>Item- /Mat.-No.<br>Material-No.<br>CAS No. | IMDS ID / Version | Quantity | Weight<br>[g] | Portion<br>[%] | Portion<br>(from - to)<br>[%] | Classif.<br>GADSL, SVHC | Parts Marking<br>Recyclate (Indust./Consumer)<br>Application [ID] |
|---|---|---|---|---|---|---|---|---|---|
| 4 | Carbon | 7440-44-0 | | | | 0.1 | 0.05 - 0.15 | | |
| 4 | Chromium | 7440-47-3 | | | | 17.5 | 16 - 19 | | |
| 4 | Manganese | 7439-96-5 | | | | 1 | 0 - 2 | | |
| 4 | Nitrogen | 7727-37-9 | | | | 0.05 | 0 - 0.1 | | |
| 4 | Nickel | 7440-02-0 | | | | 7.75 | 6 - 9.5 | D | Other application (Surface not routinely touched or nickel release rate < 0.5µg/cm2/week) [33] |
| 4 | Phosphorus | 7723-14-0 | | | | 0.0225 | 0 - 0.045 | | |
| 4 | Sulphur | 7704-34-9 | | | | 0.0075 | 0 - 0.015 | | |
| 4 | Silicon | 7440-21-3 | | | | 1 | 0 - 2 | | |
| 4 | Iron | 7439-89-6 | | | | 71.67 | | | |
| 4 | Copper | 7440-50-8 | | | | 0.5 | 0 - 1 | D | |
| 4 | Molybdenum | 7439-98-7 | | | | 0.4 | 0 - 0.8 | | |

This is an uncontrolled copy of a document created by IMDS. End of the report.

# Section 18

# Part Submission Warrant

DaimlerChrysler Ford GM

# Part Submission Warrant

| | | | |
|---|---|---|---|
| Part Name | AMP MCP 2.8, CONTACT SWS | Cust. Part Number | 17R2481 |
| Shown on Drawing No. | C-1355036 | Org. Part Number | 1-968855-2 |
| Engineering Change Level | J13 | Dated | 7-May-2018 |
| Additional Engineering Changes | N / A | Dated | N / A |
| Safety and/or Government Regulation | ☐ Yes ☑ No | Purchase Order No. | N / A |
| Weight (kg) | 0.000499 | | |
| Checking Aid Number | N / A | Checking Aid Engineering Change Level | N / A |
| Dated | N / A | | |

**ORGANIZATION MANUFACTURING INFORMATION**

TE Connectivity
Supplier Name & Supplier/Vendor Code

Amperestr. 3
Street Address

Steinach | | 9323 | Switzerland
City | Region | Postal Code | Country

**CUSTOMER SUBMITTAL INFORMATION**

Newark Electronics
Customer Name/Division

N/A
Buyer/Buyer Code

Various
Application

**MATERIALS REPORTING**

Reporting of all materials, not just Substances of Concern, may be required by certain OEMs or other customers.
Has customer-required Substances of Concern information been reported? ☑ Yes ☐ No

Submitted by IMDS or other customer format: 4998450 / 12

Are polymeric parts identified with appropriate ISO marking codes? ☐ Yes ☐ No ☑ N/A

**REASON FOR SUBMISSION**

- ☐ Initial submission
- ☐ Engineering Change(s)
- ☐ Tooling: Transfer, Replacement, Refurbishment, or additional
- ☐ Correction of Discrepancy
- ☐ Tooling Inactive > than 1 year
- ☐ Change to Optional Construction or Material
- ☐ Sub-Supplier or Material Source Change
- ☐ Change in Part Processing
- ☐ Parts produced at Additional Location
- ☑ Other - please specify: E-18-006008

**REQUESTED SUBMISSION LEVEL (Check one)**

- ☐ Level 1 - Warrant only (and for designated appearance items, an Appearance Approval Report) submitted to customer.
- ☐ Level 2 - Warrant with product samples and limited supporting data submitted to customer.
- ☑ Level 3 - Warrant with product samples and complete supporting data submitted to customer.
- ☐ Level 4 - Warrant and other requirements as defined by customer.
- ☐ Level 5 - Warrant with product samples and complete supporting data reviewed at supplier's manufacturing location.

**SUBMISSION RESULTS**

The results for ☑ dimensional measurements ☑ material and functional tests ☐ appearance criteria ☐ statistical process package
These results meet all design record requirements: ☑ YES ☐ NO (If "NO" - Explanation Required)
Mold / Cavity / Production Process: Stamping

**DECLARATION**

I affirm that the samples represented by this warrant are representative or our parts, which were made by a process that meets all Production Part Approval Process Manual 4th Edition Requirements. I further affirm the these samples were produced at a production rate of Proprietary /1 hour. I also certify that the documented evidence of such compliance is on file and available for review. I have noted any deviation from the declaration below.

EXPLANATION/COMMENTS: Production Rate is TE proprietary.

Is each Customer Tool properly tagged and numbered? ☐ Yes ☐ No ☑ N/A

| | | | |
|---|---|---|---|
| Organization Authorized Signature | Barbara Figueroa | Date | 3-Mar-2020 |
| Print Name | Barbara Figueroa | Phone No. | +52 622 225 11 54 |
| Fax No. | N/A | | |
| Title | PPAP Technician | E-mail | barbara.figueroa@te.com |

FOR CUSTOMER USE ONLY (IF APPLICABLE)

Part Warrant Disposition: ☐ Approved ☐ Rejected ☐ Other

Customer Signature _____ Date _____

Print Name _____ Customer Tracking Number (optional) _____

# Section 18a

# Bulk Material Requirements

# Not Applicable