Table of Contents

PPAP Package for:

Newark Electronics
Customer Part Number: 91T7793
(TE Connectivity Part Number): 1718758-1
Feb-2021

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

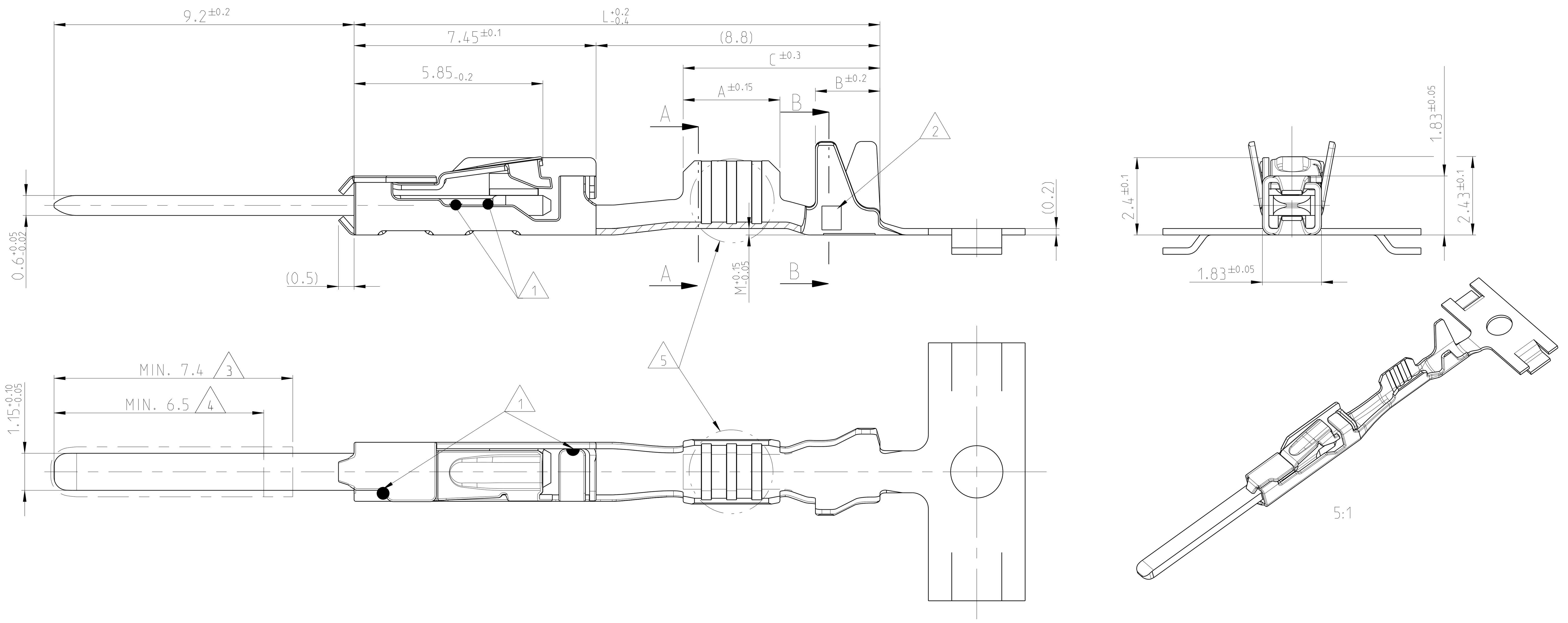
Design Records

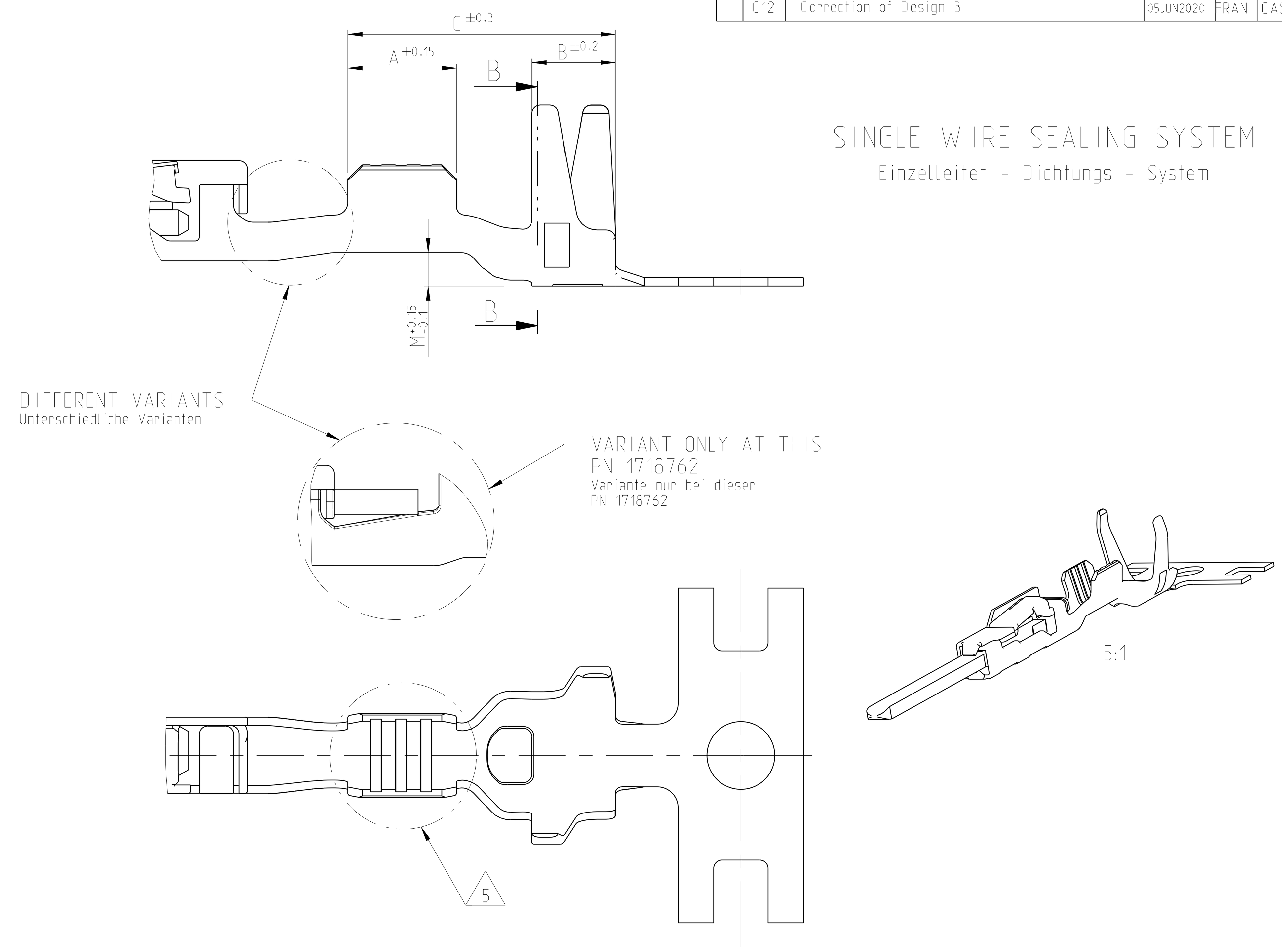
THE DRAWING SHOWS THE 2-DIMENSIONAL REFERENCE COMPONENT CONDITION OF THE ASSEMBLY TO IDENTIFY AND SPECIFY THE NECESSARY DIMENSIONS ONLY. THE DELIVERED PARTS MAY DEVIATE FROM THE DRAWING REGARDING THE ORIENTATION AND POSITION OF EACH COMPONENT (e.g. SLACK CABLE), SO FAR THE FUNCTIONALITY IS NOT CONCERNED.

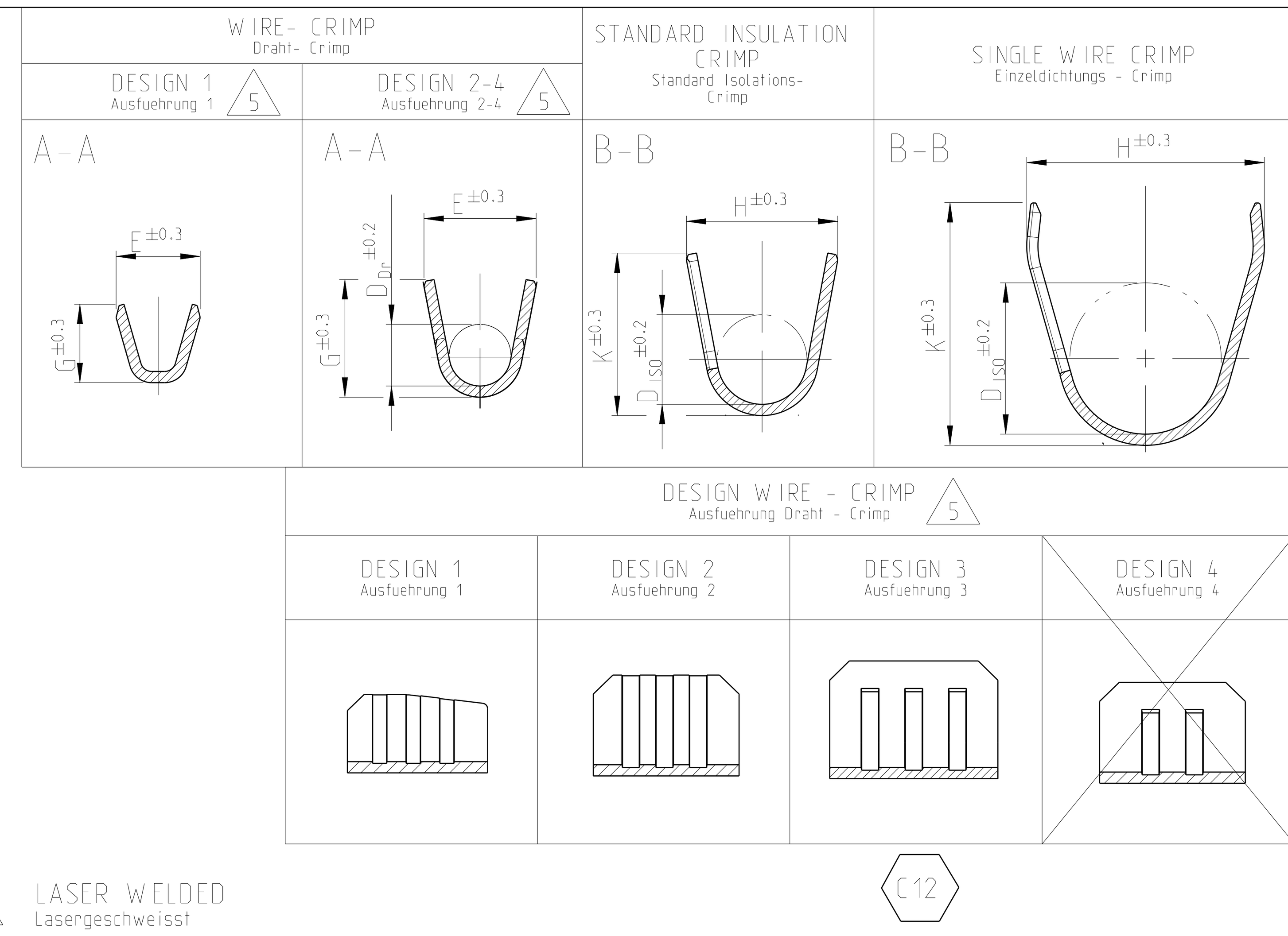
DIE ZEICHNUNG ZEIGT DEN 2-DIMENSIONALEN IDEALZUSTAND DES ZUSAMMENBAUTEILS BEZUEGLICH DER KOMPONENTEN ZUR IDENTIFIKATION UND SPEZIFIKATION DER NOTWENDIGEN DIMENSIONEN. HINSICHTLICH DER ORIENTIERUNG UND DER LAGE DER KOMPONENTEN (z.B. BIEGESCHLAFFES KABEL) KOENNEN DIE GELIEFERTEN TEILE VON DER ZEICHNUNG ABWEICHEN, SOFERN DIE FUNKTIONALITAET NICHT BEEINTRAECHTIGT IST.

LOC: AI | DIST: - | PROJECT No.: EGAUT 02021

REVISIONS				
LTR	DESCRIPTION	DATE	DWN	APVD
C9	ECR-15-012070	22SEP2015	JBJH	BK
C10	DIM 'L' FOR 2141868-1, -2 and -3 IS CHANGED TO 16.3mm	06OCT2017	GH	CASS
C11	E-19-013005	20AUG2019	FRAN	CASS
C12	Correction of Design 3	05JUN2020	FRAN	CASS







INSULATION CRIMP FOR / Isolationscrimp fuer	ORDER NO. Bestell-Nr. / STRIP Bandware	REV	WIRE RANGE Drahtgroessenbereich (mm²)	INSULATION-Ø Isolations-Ø (mm)	MATERIAL Werkstoff: BODY Kontaktkoerper	MATERIAL Werkstoff: TAB Flachstecker	SURFACE Oberflaeche: BODY Kontakt-koerper	SURFACE Oberflaeche: SPRING Kontaktfeder	DESIGN WIRE-CRIMP Ausfuehrung Draht- Crimp (5)	CRIMP DIMENSION Crimpabmessungen [mm]: LENGTH Laenge	CRIMP DIMENSION: WIRE CRIMP Drahtcrimp	CRIMP DIMENSION: INSULATION CRIMP Isolations Crimp	DIMENSION "L" Mass "L" [mm]	
SINGLE WIRE SEALING SYSTEM / Einzeldichtungssystem — SEE APPLICATION SPECIFICATION / siehe Verarbeitungsspezifikation	1718762-3	B	1.0 - 1.5	1.9- 2.4	CuNiSi	CuSn0.15/0.2	TIN PLATED verzinnt	(4)	2	A = 3.0	E = 2.6	H = 4.4	16.8	
	1718762-2	C						(3)		B = 2.0	G = 2.9	K = 4.3		
	1718762-1	B						TIN PLATED verzinnt		C = 6.8	D_{Dr} = 1.35	D_{Iso} = 2.9; M = 0.8		
	1718760-3	A	0.5 - 0.75	1.4 - 1.9	CuNiSi	CuSn0.15/0.2	TIN PLATED verzinnt	(4)	2	A = 2.6	E = 2.0	H = 4.2	16.3	
	1718760-2	B						(3)		B = 2.0	G = 2.1	K = 4.3		
	1718760-1	A						TIN PLATED verzinnt		C = 6.4	D_{Dr} = 1.1	D_{Iso} = 2.7; M = 0.8		
	1718758-3	A	0.25 - 0.35	1.1 - 1.75	CuNiSi	CuSn0.15/0.2	TIN PLATED verzinnt	(4)	2	A = 2.6	E = 1.8	H = 4.2	16.3	
	1718758-2	B						(3)		B = 2.0	G = 1.8	K = 4.3		
	1718758-1	A						TIN PLATED verzinnt		C = 6.4	D_{Dr} = 0.8	D_{Iso} = 2.6; M = 0.8		
	2141868-3	A	(6) 0.13 - 0.22	2.6	CuNiSi	CuSn0.15/0.2	TIN PLATED verzinnt	(4)	1	A = 2.5	E = 1.5	H = 4.0	16.3	
	2141868-2	A						(3)		B = 1.9	G = 1.4	K = 4.1		
	2141868-1	A						TIN PLATED verzinnt		C = 6.2		D_{Iso} = 2.6; M = 0.6		
FLR CABLE / Leitung — SEE APPLICATION SPECIFICATION / siehe Verarbeitungsspezifikation	1418762-3	A	1.0 - 1.5	1.9 - 2.4	CuNiSi	CuSn0.15/0.2	TIN PLATED verzinnt	(4)	3	A = 3.0	E = 2.6	H = 3.7	16.3	
	1418762-2	B						(3)		B = 2.0	G = 2.9	K = 3.9		
	1418762-1	A						TIN PLATED verzinnt		C = 6.1	D_{Dr} = 1.35	D_{Iso} = 2.1; M = 0.2		
	5-1418760-3	A	0.5 - 0.75	1.4 - 1.9	CuNiSi	CuSn0.15/0.2	TIN PLATED verzinnt	(4)	2	A = 3.0	E = 2.0	H = 2.7	16.3	
	5-1418760-2	A						(3)		B = 2.0	G = 2.1	K = 2.9		
	5-1418760-1	A						TIN PLATED verzinnt		C = 6.1	D_{Dr} = 1.1	D_{Iso} = 1.6; M = 0.2		
	1418760-3	B	0.5 - 0.75	1.4 - 1.9	CuNiSi	CuSn0.15/0.2	TIN PLATED verzinnt	(4)	3	A = 3.0	E = 2.0	H = 2.7	16.3	Superseded
	1418760-2	C						(3)		B = 2.0	G = 2.1	K = 2.9		
	1418760-1	B						TIN PLATED verzinnt		C = 6.1	D_{Dr} = 1.1	D_{Iso} = 1.6; M = 0.2		
	5-1418758-3	A	0.25 - 0.35	1.1 - 1.75	CuNiSi	CuSn0.15/0.2	TIN PLATED verzinnt	(4)	2	A = 2.6	E = 1.8	H = 2.6	16.3	
	5-1418758-2	B						(3)		B = 2.0	G = 1.8	K = 2.6		
	5-1418758-1	A						TIN PLATED verzinnt		C = 5.7	D_{Dr} = 0.8	D_{Iso} = 1.4; M = 0.2		
	1418758-3	A	0.25 - 0.35	1.1 - 1.75	CuNiSi	CuSn0.15/0.2	TIN PLATED verzinnt	(4)	4	A = 2.6	E = 1.8	H = 2.6	16.3	Superseded
	1418758-2	B						(3)		B = 2.0	G = 1.8	K = 2.6		
	1418758-1	A						TIN PLATED verzinnt		C = 5.7	D_{Dr} = 0.8	D_{Iso} = 1.4; M = 0.2		
	2141864-3	A	(6) 0.13 - 0.22	0.85 - 1.2	CuNiSi	CuSn0.15/0.2	TIN PLATED verzinnt	(4)	1	A = 2.5	E = 1.5	H = 2.0	15.3	
	2141864-2	A						(3)		B = 1.7	G = 1.4	K = 1.9		
	2141864-1	A						TIN PLATED verzinnt		C = 5.4		D_{Iso} = 1.1		

(1) LASER WELDED
Laserverschweisst

(2) REVISION STATUS
Revisionsstand

(3) CONTACT AREA TAB MIN. 0.8µm SELECTIV GOLD OVER Ni
Kontaktzone selectiv vergoldet min. 0.8µm ueber Ni

(4) CONTACT AREA TAB MIN. 2.0µm SELECTIV SILVER
Kontaktzone selectiv versilbert min. 2.0µm

(5) DIFFERENT FORM OF THE SERRATIONS AND WIRE-CRIMP POSSIBLE
unterschiedliche Ausfuehrung der Rillen und des Draht-Crimps moeglich

(6) RELEASED WIRE, SEE APPLICATION SPEC. TE 114-18464
Freigegebene Leitung, siehe

PRODUCT CHARACTERISTICS ACC. QMP 1.12
BESONDERE MERKMALE NACH QMP 1.12

TOLERANCING ISO 8015
TOLERIERUNG ISO 8015

~~THIS DRAWING IS A CONTROLLED DOCUMENT.~~
~~DIESES ZEICHNUNGSDOKUMENT WIRD DURCH AMP INCORPORATED KONTROLLIERT. AENDERUNGEN, DIE DEM TECHNISCHEN FORTSCHRITT DIENEN, SIND VORBEHALTEN. DEN JEWEILS LETZTGUELTIGEN AENDERUNGSSTAND ERFAHREN SIE AUF ANFRAGE.~~

DIMENSIONS: mm

TOLERANCES UNLESS OTHERWISE SPECIFIED:
0 PLC ± -
1 PLC ± -
2 PLC ± - ±0.2mm
3 PLC ± -
4 PLC ± -
ANGLES ± 1°

MATERIAL: SEE TABLE siehe Tabelle
FINISH: SEE TABLE siehe Tabelle

DWN: R. Meier 10MAR03
CHK: U. Muenk 30Jul03
APVD: - -
PRODUCT SPEC: 108-18782
APPLICATION SPEC: 114-18464
WEIGHT: -

TE Connectivity

NAME: PRODUCT GROUP DRAWING FOR TAB CONTACT 1.2 MM
Produktgruppenzeichnung Flachstecker 1.2mm

SIZE: A1 | CAGE CODE: 00779 | DRAWING NO: C- 1418754 | RESTRICTED TO: -

Customer Drawing | SCALE 10:1 | SHEET 1 OF 1 | REV C12

4805 (3/11)

Section 2

Engineering Change Documents

Product Change Notification

Current Date: 17-Mar-2020

TE Connectivity

Product Change Notification: P-19-018005 **PCN Date:** 30-SEP-19

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:
MCON 1.2 LL TAB SWS SN

Description of Changes
Dear Customer, we hereby inform you about a duplication of a stamping tool for TE part number 1718758-1.

Reason for Changes:	
Customer Request.As a result of our continuous strive for capacity increase of our production, we hereby inform you upfront about a new tool 11-1944588, which is under construction In order to meet all specification requirements to cover increasing market demand and which will run in addition to the current one.	
Estimated Dates:	
Last Order Date (Obsolete Parts Only):	**First Date To Ship** (Changed Parts Only):
	10-JUL-2020
Last Ship Date (Obsolete Parts Only):	**Last Date for Mixed Shipments:** (Changed Parts Only):
	No Mixed Shipments

Part Number(s) being Modified:

Part Number	Part Discontinued per PCN	Customer Drawing	Alias Part Number(s)	Substitute Part Number	Substitute Alias Part Number(s)	Description Of Difference
1718758-1	NO					

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

General Sales Part.
MSA is not included in the PPAP Package

1718758-1
MCON 1.2 LL TAB SWS SN
Production

Part Revision:	A
Certified Format:	TYCO ELECTRONICS
Global Portfolio Status:	N/A
End of life date:	N/A
Originator ID:	EG002132
Original Date:	14 Aug 2006
Production Date:	14 Aug 2006
Market date:	27 Feb 2009
Project Number:	N/A
RDO:	0730 - Factory Located Platform Global
ECOC:	EGA0 - TE Connectivity Germany Automotive Products
Material Type:	ZFRT - FINISHED PRODUCT
Engineering Status:	2 - PRODUCTION
Sales Status:	2 - GENERAL SALES
Discontinuance Status:	2 - NOT PLANNED
Base UOM:	PC - PIECE

Section 9

Dimensional Results

Production Part Approval
Dimension Test Results

ORGANIZATION:	***TE Connectivity Germany GmbH***
SUPPLIER/VENDOR CODE	***329715044***
INSPECTION FACILITY	***Speyer***
PART NUMBER	***0-1718758-1***
PART NAME	***MCON 1.2 LL TAB SWS SN***
DESIGN RECORD CHANGE LEVEL:	***C-1418754***
ENGINEERING CHANGE DOCUMENT	***C12***

ITEM	DIMENSION/SPECIFICATION		SPECIFICATION/ LIMITS	TEST DATE	QTY. TESTED	ORGANIZATION MEASUREMENT RESULT (DATA)					OK	NOT OK
	FRONT VIEW					**cav 1**	**cav 2**					
1	9.2		0.20 -0.20			9.32	9.32				X	
2	5.85		-0.20			5.78	5.78				X	
3	7.45		0.10 -0.10			7.37	7.37				X	
4	16.3	L	0.20 -0.40			16.16	16.16				X	
5	2.6	A	0.15 -0.15			2.62	2.61				X	
6	6.4	C	0.30 -0.30			6.39	6.39				X	
7	2	B	0.20 -0.20			1.96	1.96				X	
8	0.8	M	0.15 -0.05			0.72	0.71				X	
9	0.6		0.05 -0.02			0.61	0.60				X	
	SIDE VIEW											
10	1.83		0.05 -0.05			1.79	1.80				X	
11	2.43		0.10 -0.10			2.35	2.36				X	
12	1.83		0.05 -0.05			1.81	1.81				X	
13	2.4		0.10 -0.10			2.39	2.39				X	
	TOP VIEW											
14	1.15		0.10 -0.05			1.18	1.17				X	
	SECTION A-A											
15	1.8	E	0.30 -0.30			1.87	1.87				X	
16	1.8	G	0.30 -0.30			1.88	1.87				X	
17	0.8	Ddr	0.20 -0.20			0.80	0.80				X	
	SECTION B-B											
18	4.2	H	0.30 -0.30			4.24	4.24				X	
19	4.3	K	0.30 -0.30			4.38	4.38				X	
20	2.6	Diso	0.20 -0.20			2.60	2.60				X	

Blanked statements of conformance are unacceptable for any test results

SIGNATURE	TITEL	DATE
Hakan Tokat	Qlty & Reliability Technici	30.09.2020

THE DRAWING SHOWS THE 2-DIMENSIONAL REFERENCE COMPONENT CONDITION OF THE ASSEMBLY TO IDENTIFY AND SPECIFY THE NECESSARY DIMENSIONS ONLY. THE DELIVERED PARTS MAY DEVIATE FROM THE DRAWING REGARDING THE ORIENTATION AND POSITION OF EACH COMPONENT (e.g. SLACK CABLE). SO FAR THE FUNCTIONALITY IS NOT CONCERNED.

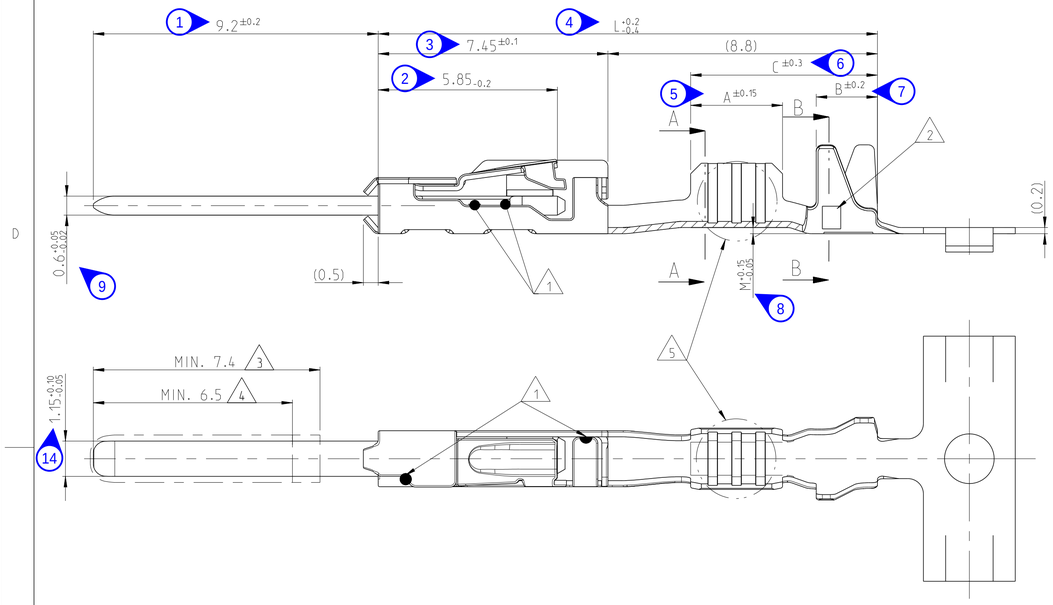
DIE ZEICHNUNG ZEIGT DEN 2-DIMENSIONALEN IDEALZUSTAND DES ZUSAMMENBAUTEILS BEZUEGLICH DER KOMPONENTEN ZUR IDENTIFIKATION UND SPEZIFIKATION DER NOTWENDIGEN DIMENSIONEN. HINSICHTLICH DER ORIENTIERUNG UND DER LAGE DER KOMPONENTEN (z.B. BIEGESCHLAFFES KABEL) KOENNEN DIE GELIEFERTEN TEILE VON DER ZEICHNUNG ABWEICHEN. SOFERN DIE FUNKTIONALITAET NICHT BEEINTRAECHTIGT IST.

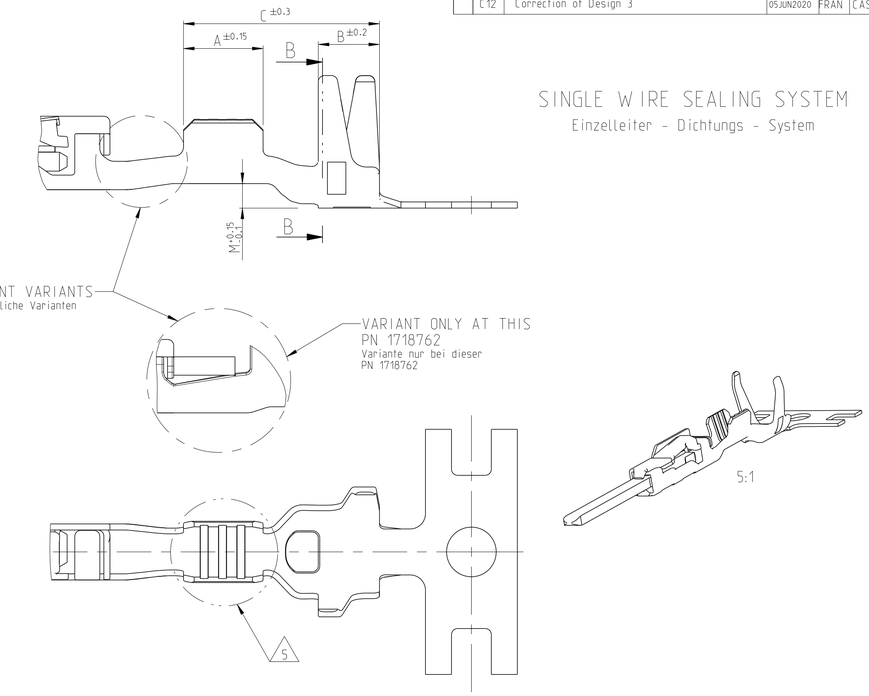
LOC A1 | DIST -

PROJECT No. EGAUT 02021

REVISIONS

P	LTR	DESCRIPTION	DATE	DWN	APVD
	C9	ECR-15-012070	22SEP2015	JBJH	BK
	C10	DIM 'L' FOR 2141868-1, -2 and -3 IS CHANGED TO 16.3mm	06OCT2017	GH	CASS
	C11	E-19-013005	20AUG2019	FRAN	CASS
	C12	Correction of Design 3	05JUN2020	FRAN	CASS

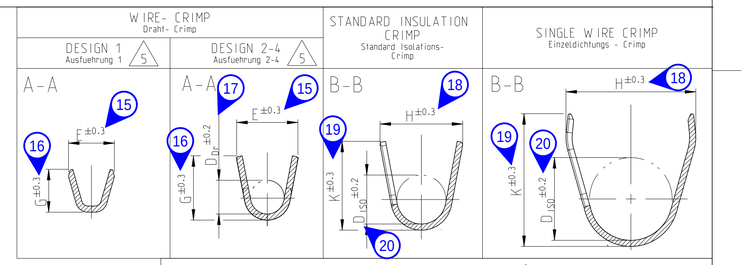




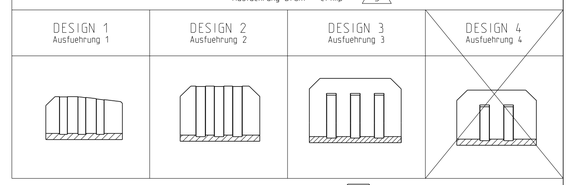
SINGLE WIRE SEALING SYSTEM
Einzelleiter - Dichtungs - System

INSULATION CRIMP FOR Isolationscrimp fuer	ORDER NO. Bestell-Nr. STRIP Bandware	REV	WIRE RANGE Drahtgroessenbereich (mm2)	INSULATION-Ø Isolations-Ø (mm)	BODY Kontaktkoerper	TAB Flachstecker	BODY Kontakt-koerper	SPRING Kontaktfeder	DESIGN WIRE-CRIMP Ausfuehrung Draht- Crimp 5	LENGTH Laenge	WIRE CRIMP Drahtcrimp	INSULATION CRIMP Isolations Crimp	DIMENSION "L" Mass "L" [mm]	
SINGLE WIRE SEALING SYSTEM / Einzeldichtungssystem SEE APPLICATION SPECIFICATION / siehe Verarbeitungsspezifikation	1718762-3	B	1.0 - 1.5	1.9- 2.4	CuNiSi	CuSn0.15/0.2	TIN PLATED verzinnt	4 3 TIN PLATED verzinnt	2	A = 3.0 B = 2.0 C = 6.8	E = 2.6 G = 2.9 D_{Cr} = 1.35	H = 4.4 K = 4.3 D_{iso} = 2.9 M = 0.8	16.8	
	1718762-2	C												
	1718762-1	B												
	1718760-3	A	0.5 - 0.75	1.4 - 1.9	CuNiSi	CuSn0.15/0.2	TIN PLATED verzinnt	4 3 TIN PLATED verzinnt	2	A = 2.6 B = 2.0 C = 6.4	E = 2.0 G = 2.1 D_{Cr} = 1.1	H = 4.2 K = 4.3 D_{iso} = 2.7 M = 0.8	16.3	
	1718760-2	B												
	1718760-1	A												
	1718758-3	A	0.25 - 0.35	1.1 - 1.75	CuNiSi	CuSn0.15/0.2	TIN PLATED verzinnt	4 3 TIN PLATED verzinnt	2	A = 2.6 B = 2.0 C = 6.4	E = 1.8 G = 1.8 D_{Cr} = 0.8	H = 4.2 K = 4.3 D_{iso} = 2.6 M = 0.8	16.3	
	1718758-2	B												
	1718758-1	A												
	2141868-3	A	6 0.13 - 0.22	2.6	CuNiSi	CuSn0.15/0.2	TIN PLATED verzinnt	4 3 TIN PLATED verzinnt	1	A = 2.5 B = 1.9 C = 6.2	E = 1.5 G = 1.4	H = 4.0 K = 4.1 D_{iso} = 2.6 M = 0.6	16.3	
	2141868-2	A												
	2141868-1	A												
FLR CABLE / Leitung SEE APPLICATION SPECIFICATION / siehe Verarbeitungsspezifikation	1418762-3	A	1.0 - 1.5	1.9 - 2.4	CuNiSi	CuSn0.15/0.2	TIN PLATED verzinnt	4 3 TIN PLATED verzinnt	3	A = 3.0 B = 2.0 C = 6.1	E = 2.6 G = 2.9 D_{Cr} = 1.35	H = 3.7 K = 3.9 D_{iso} = 2.1 M = 0.2	16.3	
	1418762-2	B												
	1418762-1	A												
	5-1418760-3	A	0.5 - 0.75	1.4 - 1.9	CuNiSi	CuSn0.15/0.2	TIN PLATED verzinnt	4 3 TIN PLATED verzinnt	2	A = 3.0 B = 2.0 C = 6.1	E = 2.0 G = 2.1 D_{Cr} = 1.1	H = 2.7 K = 2.9 D_{iso} = 1.6 M = 0.2	16.3	
	5-1418760-2	A												
	5-1418760-1	A												
	1418760-3	B	0.5 - 0.75	1.4 - 1.9	CuNiSi	CuSn0.15/0.2	TIN PLATED verzinnt	4 3 TIN PLATED verzinnt	3	A = 3.0 B = 2.0 C = 6.1	E = 2.0 G = 2.1 D_{Cr} = 1.1	H = 2.7 K = 2.9 D_{iso} = 1.6 M = 0.2	16.3	Superseded
	1418760-2	C												
	1418760-1	B												
	5-1418758-3	A	0.25 - 0.35	1.1 - 1.75	CuNiSi	CuSn0.15/0.2	TIN PLATED verzinnt	4 3 TIN PLATED verzinnt	2	A = 2.6 B = 2.0 C = 5.7	E = 1.8 G = 1.8 D_{Cr} = 0.8	H = 2.6 K = 2.6 D_{iso} = 1.4 M = 0.2	16.3	
	5-1418758-2	B												
	5-1418758-1	A												
	1418758-3	A	0.25 - 0.35	1.1 - 1.75	CuNiSi	CuSn0.15/0.2	TIN PLATED verzinnt	4 3 TIN PLATED verzinnt	4	A = 2.6 B = 2.0 C = 5.7	E = 1.8 G = 1.8 D_{Cr} = 0.8	H = 2.6 K = 2.6 D_{iso} = 1.4 M = 0.2	16.3	Superseded
	1418758-2	B												
	1418758-1	A												
	2141864-3	A	6 0.13 - 0.22	0.85 - 1.2	CuNiSi	CuSn0.15/0.2	TIN PLATED verzinnt	4 3 TIN PLATED verzinnt	1	A = 2.5 B = 1.7 C = 5.4	E = 1.5 G = 1.4	H = 2.0 K = 1.9 D_{iso} = 1.1	15.3	
	2141864-2	A												
	2141864-1	A												

MATERIAL Werkstoff: BODY Kontaktkoerper CuNiSi; TAB Flachstecker CuSn0.15/0.2
SURFACE Oberflaeche: BODY Kontakt-koerper TIN PLATED verzinnt; SPRING Kontaktfeder 4 / 3 TIN PLATED verzinnt
CRIMP DIMENSION Crimpabmessungen [mm]



DESIGN WIRE - CRIMP Ausfuehrung Draht - Crimp 5



C12

1 LASER WELDED
Lasergeschweisst

2 REVISION STATUS
Revisionsstand

3 CONTACT AREA TAB MIN. 0.8µm SELECTIV GOLD OVER Ni
Kontaktzone selectiv vergoldet min. 0.8µm ueber Ni

4 CONTACT AREA TAB MIN. 2.0µm SELECTIV SILVER
Kontaktzone selectiv versilbert min. 2.0µm

5 DIFFERENT FORM OF THE SERRATIONS AND WIRE-CRIMP POSSIBLE
unterschiedliche Ausfuehrung der Rillen und des Draht-Crimps moeglich

6 RELEASED WIRE, SEE APPLICATION SPEC. TE 114-18464
Freigegebene Leitung, siehe

PRODUCT CHARACTERISTICS ACC. QMP 1.12
BESONDERE MERKMALE NACH QMP 1.12

THIS DRAWING IS A CONTROLLED DOCUMENT.
DIESES ZEICHNUNGSDOKUMENT WIRD COMPUTERGESTEUERT. ÄNDERUNGEN SIND NUR AUTORISIERTEN PERSONEN GESTATTET.

DIMENSIONS: mm
TOLERANCES UNLESS OTHERWISE SPECIFIED: 0 PLC ±; 1 PLC ±; 2 PLC ±0.2mm; 3 PLC ±; ANGLES ± 1°
MATERIAL SEE TABLE siehe Tabelle
FINISH SEE TABLE siehe Tabelle

TOLERANCING ISO 8015
TOLERIERUNG ISO 8015

DWN	R. Meier	10MAR03
CHK	U. Muenk	30Jul03
APVD	-	
PRODUCT SPEC	108-18782	
APPLICATION SPEC	114-18464	
WEIGHT	-	

TE Connectivity

NAME
PRODUCT GROUP DRAWING FOR TAB CONTACT 1.2 MM
Produktgruppenzeichnung Flachstecker 1.2mm

SIZE	CAGE CODE	DRAWING NO	RESTRICTED TO
A1	00779	C= 1418754	-

Customer Drawing | SCALE 10:1 | SHEET 1 OF 1 | REV C12

Section 10

Material, Performance Test Results

Production Part Approval
Material Test Results

ORGANIZATION:	***TE Connectivity Germany GmbH***	PART NUMBER	***0-1718758-1***
SUPPLIER/VENDOR CODE	***329715044***	PART NAME	***MCON 1.2 LL TAB SWS SN***
INSPECTION FACILITY		DESIGN RECORD CHANGE LEVEL:	***C-1418754***
Speyer		ENGINEERING CHANGE DOCUMENT:	***C12***

ITEM	DIMENSION/SPECIFICATION	SPECIFICATION/ LIMITS	TEST DATE	QTY. TESTED	ORGANIZATION MEASUREMENT RESULT (DATA)				OK	NOT OK
	Material									
	BODY									
	CuNiSi				see materialcertificate					
	Finish: Tinned				tinned					
	TAB									
	CuSn0.15/0.2				see materialcertificate					
	Finish: Tinned				tinned					

Blanked statements of conformance are unacceptable for any test results

SIGNATURE	TITEL	DATE
Hakan Tokat	Qlty & Reliability Technician	30.09.2020

Batch 29485923 02.12.2020

KEMPER

Abnahmeprüfzeugnis EN 10204 3.1

Kunde TE Connectivity Germany GmbH Ampèrestrasse 12-14 64625 Bensheim	Unsere Auftrags-Nr. 18980 / 10	Ausdruck vom	30.11.2020
	Unsere Artikel-Nr. 05-077-11701	Lieferschein / Pos.	80241810 / 10
	Ihre Bestell-Nr. 2714256131	Liefermenge	948 KG
	Ihre Artikel-Nr. 6-794492-1	Gieß-Charge	1000037721
Werkstoff KHP415, CuSn0.15, C14415, CW117C	Charge 2R07074	Kundennorm	TEC-109-13404 [illegible] TEC 113-20-3 Rev.AF 107-18010 Rev.B2 / Packing
Abmessung 0,820 x 16,590 mm			

Chemische Zusammensetzung des Grundwerkstoffs

min.			0,10	0,006			
max.		0,005	0,20	0,020	0,050	0,0050	
	Cu %	Pb %	Sn %	P %	Fe %	Ag %	
	99,85	0,001	0,12	0,009	0,008	0,0020	

Mechanische Werte

Nr.	Merkmal	Soll-Wert min.	Soll-Wert max.	Ist-Wert min.	Ist-Wert max.
1	Säbel - mm / 1m		2,5	0,4	0,7
2	Breite - mm	16,40	16,60	16,46	16,47
3	Dicke - mm	0,810	0,830	0,817	0,822
4	Dehngrenze Rp0,2 - N/mm2	380		417	420
5	Zugfestigkeit Rm - N/mm2	420	480	435	439
6	Bruchdehnung A50 - %	7		4	7
7	Härte HV			136	136
8	Elektrische Leitfähigkeit - m/Ohm mm2	45,0		47,4	47,4
9	Rauheit Ra - µm		0,35	0,14	0,17
10	Korngröße - µm		30	15	18
11	Sn Beschichtung Dicke - µm	0,80	1,50	0,88	1,23
12	Kupferoxid/Haftfest -			i.O.	i.O.
13	Biegeprüfung 90° - R=1,2xt			i.O.	i.O.
14	Biegeprüfung 180° - R=1,2xt			i.O.	i.O.
15	Überhöhung max - 0,100 mm			i.O.	i.O.
16	Lötbar DIN [illegible] -			i.O.	i.O.

Bemerkungen:

Konformitätserklärung: Hiermit bestätigen wir, dass die gelieferten Erzeugnisse die in der Auftragsbestätigung genannten Bedingungen erfüllen.

Bestätigung spezieller Anforderungen	Directive 2011/65/EU „RoHS" Directive 2000/53/EG „End-of-Live Vehicles Directive"

geprüft und freigegeben (Datum, Name) **10.08.2020, Roman Konrad** (Abnahmebeauftragter)

Dieses Dokument wurde maschinell erstellt und ist ohne Unterschrift gültig.

Band (SAP) 20001344499 / 26.11.2020
00013447103

wieland

Wieland-Werke AG D-89079 Ulm

Tyco Electronics AMP GmbH
Werk Speyer
Pfnorstr. 1
64293 Darmstadt

Ihre Bestell-Nr.	2550163696
vom	07.04.2020
Ihre Material-Nr.	1-705566-3 REV. B
Unsere Auftrags-Nr.	**20001344 001**
Unsere Lieferschein-Nr.	82825210 010
Liefermenge	8272 KG
Datum	20.11.2020

Abnahmeprüfzeugnis 3.1 nach EN 10204 : 2004

Halbfabrikat:
Band verzinnt

Werkstoff:
Wieland K55 CuNi3Si1Mg

Abmessungen:

Maß A:	0,2 mm	- 0,01	
Maß B:	22 mm	- 0,05	+ 0,05
Maß C:			
Maß D:			

Spezifikation:		Revision/Ausgabedatum:	Normzahl
Mitgeltende Vorsch.:	TEC-100-1086 TM00=R620	Rev. Z	
Mitgeltende Vorsch.:	TEC-112-20-5	Rev. AE	
weitere Vorschriften:	Verp. n. 107-18010 Rev. D		

Bemerkungen:

Ring-Nr.	1880F	1880K	2347F	2347K	2364F	2364K
Guss-Nr.	1880F	1880K	2347F	2347K	2364F	2364K
Auftr-Nr.	36538425	36538425	36538425	36538425	36538425	36538425
Ring-Nr.	N1880	R2347	R2364	U1880		
Guss-Nr.	N1880	R2347	R2364	U1880		
Auftr-Nr.	36538425	36538425	36538425	36538425		

Chemische Zusammensetzung nach 2.2 EN 10204 : 2004

Die Summe der sonstigen Elemente entspricht der in der chemischen Norm genannten Vorgabe.

Cu Kupfer-Gehalt ***Fe Eisen-Gehalt*** ***Pb Blei-Gehalt***
Mg Magnesium-Gehalt ***Ni Nickel-Gehalt*** ***1B 1B = Nickel + Cobalt***
Zn Zink-Gehalt

Sollwerte:

Prüfmerkmal (in %)	**Cu**	**Fe**	**Pb**	**Mg**	**Ni**	**1B**	**Zn**
Minimum/Richtwert(R)				**0,05**	**2,2**		
Maximum/Richtwert(R)		**0,2**	**0,05**	**0,3**	**4,2**		**1**

Messwerte:*

[illegible]

[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]

Abnahmeprüfzeugnis 3.1 nach EN 10204 : 2004

[illegible]

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]							

[illegible]

[illegible]	[illegible]	5
[illegible]		1,25
[illegible]	[illegible]	[illegible]

[illegible]

[illegible]

[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]

Mechanische Prüfmerkmale

wieland

Tyco Electronics AMP GmbH

Ihre Bestell-Nr.	2550163696
vom	07.04.2020
Ihre Material-Nr.	1-705566-3 REV. B

Unsere Auftrags-Nr.	20001344 001
Unsere Lieferschein-Nr.	82825210 010
Liefermenge	8272 KG
Datum	20.11.2020

Abnahmeprüfzeugnis 3.1 nach EN 10204 : 2004

Maßprüfungen

Prüfmerkmal	Einheit	Soll-Wert bzw. Richtwert(R)		Messwerte	
		Min.	Max.		
Breite	mm	21,95	22,05	21,987	21,999
Dicke	mm	0,19	0,2	0,195	0,196
Querwölbung	mm		0,44	0,007	0,008
Säbelförmigkeit auf 1000mm	mm		2	0,01	0,16
Rollkrümmung hängend auf 1000 mm	mm		225	12,9	13,6
Verwindung liegend gemessen an 1m	mm/m		10	0,2	0,2
Grat (Schneid-, Sägegrat)	mm		0,02	0,012	0,012

Konformitätserklärung

Wir erklären als Hersteller, daß die hier beschriebene Ware den mit dem Käufer vereinbarten Spezifikationen sowie den oben aufgeführten Normen und normativen Vorschriften, der angegebenen Beschreibung, der genannten Menge und den in diesem Zeugnis gemachten Angaben entspricht.

Diese Ware wurde unter einem zertifizierten Qualitätsmanagementsystem nach DIN EN ISO 9001:2015 hergestellt. Unser Qualitätsmanagementsystem wird laufend überwacht (Kiwa ZertifikatsNr. 99440).

Die Prüfergebnisse zur chemischen Analyse, zu den mechanisch-technologischen und physikalischen Prüfverfahren wurden durch ein zertifiziertes und / oder akkreditiertes Prüflabor festgestellt.

Die Lieferung erfolgt bezüglich Cd und Pb konform nach RoHS, ELV und WEEE.
In Bändern und Blechen aus Kupfer und Kupferlegierungen nicht enthalten sind: Cr(VI) und seine Verbindungen CFC, HCFC, PCB, PCN, CP, Mirex, PBB, BDE, PBDE, TBBP - A - bis, organische Zinnverbindungen, Asbest und Azo-Verbindungen, Hg - Analysen an Muster zeigen Werte < 0.0005% (m/m).

*Im Falle mehrerer Zeilen pro Gussnummer enthält die erste Zeile die kleinsten und die zweite Zeile die größten gemessenen Werte der chemischen Zusammensetzung.

i.A. Wolfgang Baur (Abnahmebeauftragter des Herstellers)
Telefon: +49-731-944-3637 Fax: +49-731-944-43637
e-mail: wolfgang.baur@wieland.com
Maschinell erstelltes Abnahmeprüfzeugnis

wieland

Abnahmeprüfzeugnis 3.1 nach EN 10204 : 2004

RM Zugfestigkeit Rm *RP0,2 Dehngrenze 0,2 %* *A50 Bruchdehnung A50*

Schmelze:

Prüfmerkmal	RM	RP0,2	A50
Masseinheit	MPa	MPa	%
Minimum/Grenzwert(G)	420	450	10
Maximum/Sollwert(S)	740	690	

Messwerte:

Prüfnummer			
K1660_A	731	572	17
K1660_B	733	572	17
K0347_A	683	581	18
K0347_B	696	581	17
K0367_A	696	568	17
K0367_B	698	563	18
L1660.0002_A	696	578	18
L1660.0002_B	693	574	17

Weitere Prüfungen

Prüfmerkmal	Einheit	Soll-Wert bzw. Rahmen(SR)		Messwerte	
		Min.	Max.		
elektrische Leitfähigkeit - Gewichtsmet	MS/m	23		27	28
elektrische Leitfähigkeit in IACS	%	40		46	49
Korngröße	µm		20	7	12
Biegbarkeit 90 Grad parallel R/T=4				Ergebnis gut	
Biegbarkeit 90 Grad quer R/T=0,5				Ergebnis gut	
Biegbarkeit 180 Grad parallel R/T=2,5				Ergebnis gut	
Biegbarkeit 180 Grad quer R/T=3,5				Ergebnis gut	
Ra - arithm.Mittenrauwert	µm		0,3	0,1	0,1
Ra - arithm.Mittenrauwert Beschichtung	µm		0,33	< 0,30	< 0,30
Schichtdicke, Pulverbeschichtung Rückseite	µm	1	3	1,2	3

Section 11

Initial Process Studies

Not Applicable

Section 12

Qualified Laboratory Documentation

CERTIFICATE

This is to certify that

TE Connectivity Germany GmbH

Siemensstraße 13
67346 Speyer
Germany

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.	515112 IATF16
Main certificate registration no.	515099 IATF16
Issuing date	2018-04-18
This certificate is valid until	2021-04-17
IATF No.	0301145

2-IAO-QMC-01001

For and on behalf of DQS

Stefan Heinloth
Managing Director, DQS GmbH

Michael Drechsel
Managing Director, DQS Holding GmbH

Annex to certificate registration no.: 515112 IATF16
IATF-No.: 0301145

TE Connectivity Germany GmbH

Siemensstraße 13
67346 Speyer
Germany

2-IAO-QMC-01001

Remote Location	Scope
515114 **TE Connectivity Solutions GmbH** **Amperestr. 3** **9323 Steinach** **Switzerland**	Logistics
515099 **TE Connectivity Germany GmbH** **Amperestr. 12-14** **64625 Bensheim** **Germany**	Policy making, Process Design, Purchasing, Quality System Management, Sales
515116 **TE Connectivity Germany GmbH** **Amperestr. 12-14** **73499 Wört** **Germany**	Process Design
515902 **TE Connectivity Germany GmbH** **Amperestr. 12-14** **73499 Wört** **Germany**	Warehousing
515103 **TE Connectivity Germany GmbH** **Amperestr. 11** **91550 Dinkelsbühl** **Germany**	Process Design, Production Equipment Development
515110 **Tyco Electronics France SAS** **1 rue Ampère** **95300 Pontoise** **France**	Sales

Annex to certificate registration no.: 515112 IATF16
IATF-No.: 0301145

TE Connectivity Germany GmbH

Siemensstraße 13
67346 Speyer
Germany

2-IAO-QMC-01001

Remote Location	Scope
515514 **Tyco Electronics AMP Italia Products S.r.l.** **Corso Fratelli Cervi 15** **10093 COLLEGNO TORINO** **Italy**	Sales
525517 **TE Connectivity Tangier Morocco** **I Lot 60, Zone Franche Tangier** **90 000 Tangier** **Morocco**	Warehousing
525515 **TE Connectivity Tunisia office** **Immeuble Lake Forum,** **4 ème étage 5 rue de la feuille d'érable** **1053 Tunis** **Tunisia**	Warehousing

This annex (edition: 2018-04-18) is only valid in connection with the above-mentioned certificate.

2017-12-18

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.:	**1718758-1**
Description:	**Tab Contact 1.2mm For SWS**
Report No.:	**-**
Date of Report:	**-**
Purchase Order No.:	**-**
Bill of Delivery No.:	**-**
Preliminary MDS:	**No**
IMDS ID / Version:	**63624234 / 9**
Node ID:	**962271222**
MDS Status (Change Date):	**Internally released (10/01/2020)**

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.:	**1718758-1**	Report No.:	**-**
Description:	**Tab Contact 1.2mm For SWS**	IMDS ID / Version:	**63624234 / 9**
		Node ID:	**962271222**

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]
1	Tab Contact 1.2mm For SWS	1718758-1	63624234 / 9		0.2345				
├2	Body			1	0.128				
├3	Copper Nickel		73855529 / 5		0.1259			3.2	No
├4	Copper	7440-50-8				94.775		D	
├4	Nickel	7440-02-0				3.2	2.2 - 4.2	D	Not applicable [34]

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	Cobalt	7440-48-4				0.2	0 - 0.4	D	
4	Silicon	7440-21-3				0.725	0.25 - 1.2		
4	Iron	7439-89-6				0.1	0 - 0.2		
4	Magnesium (metal)	7439-95-4				0.175	0.05 - 0.3		
4	Manganese	7439-96-5				0.05	0 - 0.1		
4	Lead	7439-92-1				0.025	0 - 0.05	D / P / SVHC	Concentration within acceptable GADSL limits [44]
4	Zinc (metal)	7440-66-6				0.5	0 - 1		
4	Misc., not to declare	system				0.25	0 - 0.5		
3	e-plate Sn (electrodeposited Tin Coatings, bright and matt)		756885 / 6		0.0021			4.2	No
4	Carbon	7440-44-0				0.505	0.01 - 1		
4	Sulphur	7704-34-9				0.02	0 - 0.04		
4	Lead	7439-92-1				0.05	0 - 0.1	D / P / SVHC	Concentration within acceptable GADSL limits [44]
4	Tin	7440-31-5				99.425			
2	Insert Tab 1.2mm	1418755-1	15676092 / 14	1	0.1065				
3	CuSn0,15		10767190 / 5		0.104			3.2	No
4	Copper	7440-50-8				99.7475		D	
4	Misc., not to declare	system				0.05	0 - 0.1		
4	Phosphorus	7723-14-0				0.0075	0 - 0.015		

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	Iron	7439-89-6				0.01	0 - 0.02		
4	Zinc (metal)	7440-66-6				0.05	0 - 0.1		
4	Nickel	7440-02-0				0.01	0 - 0.02	D	Not applicable [34]
4	Tin	7440-31-5				0.125	0.1 - 0.15		
3	e-plate Sn (electrodeposited Tin Coatings, bright and matt)		756885 / 6		0.0025			4.2	No
4	Carbon	7440-44-0				0.505	0.01 - 1		
4	Sulphur	7704-34-9				0.02	0 - 0.04		
4	Lead	7439-92-1				0.05	0 - 0.1	D / P / SVHC	Concentration within acceptable GADSL limits [44]
4	Tin	7440-31-5				99.425			

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

Section 18

Part Submission Warrant

TE Connectivity

PPAP North America Team

Part Submission Warrant

EPPAP:

Part Name: PRODUCT GROUP DRAWING FOR TAB CONTACT 1.2 MM | Cust. Part Number: 91T7793

Shown on Drawing Number: C-1418754 | Org.Part Number: 1718758-1

Engineering Change Level: C12 | Dated: 05-Jun-2020

Additional Engineering Changes: N/A | Dated: N/A

Safety and/or Government Regulation: ☐ Yes ☑ No | Purchase Order No.: N/A | Weight (kg): 0.00023

Checking Aid Number: Not applicable | Checking Aid Engineering Change Level: N/A | Dated: N/A

ORGANIZATION MANUFACTURING INFORMATION

TE Connectivity Germany GmbH
Organization Name and Supplier Code

Siemensstraße 13
Street Address

Speyer | Region | 67346 | Germany
City | Region | Postal Code | Country

CUSTOMER SUBMITTAL INFORMATION

Newark Electronics
Customer Name/Division

Not Provided
Buyer/Buyer Code

Various
Application

MATERIALS REPORTING

Has customer-required Substance of Concern information been reported: ☑ Yes ☐ No ☐ NA

Submitted by IMDS or other customer format

IMDS
63624234 / 9

Are polymeric parts identified with appropriate ISO marking codes? ☑ Yes ☐ No ☐ NA

REASON FOR SUBMISSION (Check at least one)

- ☐ 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

P-19-018005

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 measurement ☑ 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 / Tool #11-1944588

DECLARATION

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

EXPLANATION/COMMENTS

Production Rate is TE Proprietary. General Sales Part Number. PCN P-19-018005.

Is each Customer Tool properly tagged and numbered? ☐ Yes ☐ No ☑ NA

Organization Authorized Signature: *Enrique Espinoza* | Date: 02/12/2021

Print Name: Enrique Espinoza | Phone No.: n/a | Fax: n/a

Title: PPAP Technician | Email: enrique.espinoza@te.com

FOR CUSTOMER USE ONLY (IF APPLICABLE)

PPAP Warrant Disposition : ☐ Approved ☐ Rejected ☐ Other

Customer Signature | Date

Print Name | Customer Tracking Number (optional)

Section 18a

Bulk Material Requirements

Not Applicable