



Part Submission Warrant

Part Name STANDARD TANDEM SPRING RECEPTACLE Cust. Part Number 91C4252
Shown on Drawing Number C-166500 Org. Part Number 166500-2
Engineering Change Level Z4 Dated 21-Jan-16
Additional Engineering Changes n/a Dated n/a

Safety and/or Government Regulation ☐ Yes ☒ No Purchase Order No. n/a Weight (kg) 0.00009
Checking Aid Number n/a Checking Aid Engineering Change Level n/a Dated n/a

ORGANIZATION MANUFACTURING INFORMATION

TYCO ELECTRONICS AMP GMBH / **323462481**

Organization Name and Supplier Code

AMPERESTR 14

Street Address

WOERT **73499** **Germany**
City Region Postal Code Country

CUSTOMER SUBMITTAL INFORMATION

Newark Electronics

Customer Name/Division

n/a

Buyer/Buyer Code

Various

Application

MATERIALS REPORTING

Has customer-required Substance of Concern information been reported
Submitted by IMDS or other customer format

☒ Yes ☐ No ☐ n/a
18283083 / 12

Are polymeric parts identified with appropriate ISO marking codes?

☐ Yes ☐ No ☒ n/a

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-18-016720

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

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 xxxxx / x hours
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.

Is each Customer Tool properly tagged and numbered? ☐ Yes ☐ No ☒ N/a

Organization Authorized Signature

Barbara Figueroa

Date 5/7/2019

Print Name Barbara Figueroa

Phone No. +52 662 500 3680

Fax N/A

Title PPAP Technician

Email barbara.figueroa@te.com

FOR CUSTOMER USE ONLY (IF APPLICABLE)

PPAP Warrant Disposition : ☐ Approved ☐ Rejected ☐ Other _____

Customer Signature _____ Date _____

Print Name _____ Customer Tracking Number (optional) _____



Product Change Notification

Current Date: 21-Dec-2018

TE Connectivity

Product Change Notification: P-18-016720

PCN Date: 17-DEC-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:

TANDEM SPRING REC

Description of Changes

Manufacturing location change. Following Part Numbers will be transferred from Supplier Germany to another Supplier Germany. Transferred PN's: 166500-2 / 166500-4 / 166500-9 / 1-166500-0 / 1-166500-2 / 2-166500-2 / 167041-2 component of below listed Assy-PN's

Reason for Changes:

Dear Customer, we hereby inform you about a transfer of tools and/or processes. The transfer follows a strict procedure, which fully maintains quality, ability to supply and form-fit-function of the concerned products. The new manufacturing location operates under a certified quality management system in accordance with standard automotive requirements. A TE-internal release test based on the relevant part specifications will be executed before delivery. Upon request, a PPAP Level 2 will be available if it concerns a transfer of a tool which produces a finished TE-product. A PPAP Level 1 will be available if it concerns a component of a TE-product, where the production location of the finished TE-product remains unchanged. If you require such a PPAP, please notify the responsible TE Sales Contact within 14 calendar days after receipt of this PCN

Estimated Dates:

Last Order Date (Obsolete Parts Only):	First Date To Ship (Changed Parts Only):
	26-FEB-2019
Last Ship Date (Obsolete Parts Only):	Last Date for Mixed Shipments: (Changed Parts Only):
	No Mixed Shipments

Part Number(s) being Modified:

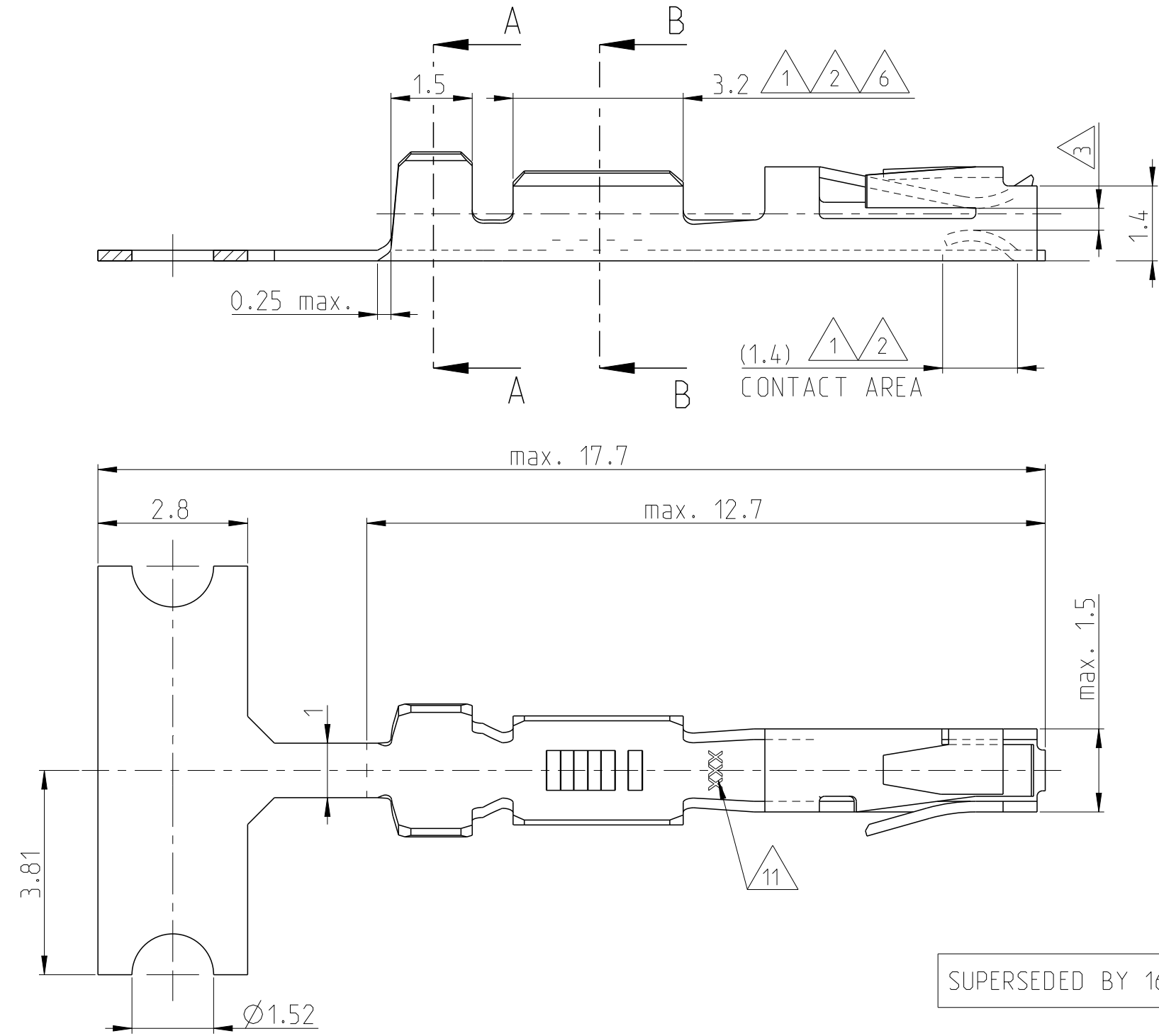
Part Number	Part Discontinued per PCN	Customer Drawing	Alias Part Number(s)	Substitute Part Number	Substitute Alias Part Number(s)	Description Of Difference
1-166500-0	NO					
1-166500-1	NO					
1-166500-2	NO					
1-1922345-1	NO					
1-958122-5	NO					
1-958122-6	NO					
1-958122-7	NO					
1-958122-8	NO					
1-958122-9	NO					
1-958129-0	NO					
1-958129-1	NO					
1-958129-2	NO					
1-958129-3	NO					
1-958129-4	NO					
1-958129-5	NO					
1-958129-6	NO					
1-958129-7	NO					
1-958129-8	NO					
1-958129-9	NO					
1-958161-0	NO					
1-958161-2	NO					
1-958161-4	NO					
1-958161-6	NO					
1-958161-8	NO					
1019777-2	NO					
1294120-1	NO					
1528165-2	NO					
166500-2	NO					
166500-4	NO					
166500-9	NO					
166722-1	NO		"A02674-000", "AMP-0-0166722-1"			

Part Number	Part Discontinued per PCN	Customer Drawing	Alias Part Number(s)	Substitute Part Number	Substitute Alias Part Number(s)	Description Of Difference
166722-2	NO					
166722-6	NO					
167041-2	NO					
167042-1	NO					
1714374-1	NO					
1714489-1	NO					
1820173-1	NO					
1922345-1	NO					
1922726-1	NO					
1922727-1	NO					
1997364-1	NO					
1997581-1	NO					
1997718-1	NO					
2-166500-2	NO					
2-2151263-1	NO					
2-958122-0	NO					
2-958122-2	NO					
2-958122-4	NO					
2-958122-6	NO					
2-958122-8	NO					
2-958126-0	NO					
2-958129-0	NO					
2-958129-1	NO					
2-958129-2	NO					
2-958129-3	NO					
2-958129-4	NO					
2-958129-5	NO					
2-958129-6	NO					
2-958129-7	NO					
2-958129-8	NO					
2-958129-9	NO					
2-958161-0	NO					
2-958161-2	NO					
2-958161-4	NO					
2-958161-6	NO					
2-958161-8	NO					
2073413-1	NO					
2151263-1	NO					
2266250-1	NO					
2836664-1	NO					
3-958122-0	NO					
3-958122-2	NO					
3-958122-4	NO					
3-958122-6	NO					
3-958122-8	NO					
3-958129-0	NO					
3-958129-1	NO					
3-958129-2	NO					
3-958129-3	NO					
3-958129-4	NO					
3-958129-5	NO					
3-958129-6	NO					
3-958129-7	NO					
3-958129-8	NO					
3-958129-9	NO					
3-958161-0	NO					
3-958161-2	NO					
3-958161-4	NO					
3-958161-6	NO					
3-958161-8	NO					
4-958122-0	NO					
4-958122-2	NO					
4-958122-4	NO					
4-958122-6	NO					
4-958122-8	NO					
4-958129-0	NO					

Part Number	Part Discontinued per PCN	Customer Drawing	Alias Part Number(s)	Substitute Part Number	Substitute Alias Part Number(s)	Description Of Difference
4-958129-1	NO					
4-958129-2	NO					
4-958129-3	NO					
4-958129-4	NO					
4-958129-5	NO					
4-958129-6	NO					
4-958129-7	NO					
4-958129-8	NO					
4-958129-9	NO					
5-958122-0	NO					
5-958122-2	NO					
5-958122-4	NO					
5-958122-6	NO					
5-958122-8	NO					
5-958129-0	NO					
6-178511-0	NO					
6-958122-0	NO					
6-958122-2	NO					
6-958122-4	NO					
6-958122-5	NO					
6-958122-6	NO					
6-958122-8	NO					
7-958122-0	NO					
7-958122-2	NO					
7-958122-4	NO					
7-958122-6	NO					
7-958122-8	NO					
8-958122-0	NO					
8-958122-2	NO					
8-958122-4	NO					
8-958122-6	NO					
8-958122-8	NO					
9-958122-0	NO					
9-958122-2	NO					
9-958122-4	NO					
9-958122-6	NO					
9-958122-8	NO					
941631-1	NO					
958129-1	NO					
958129-2	NO					
958129-3	NO					
958129-4	NO					
958129-5	NO					
958129-6	NO					
958129-7	NO					
958129-8	NO					
958129-9	NO					
958161	NO					
958161-2	NO					
958161-4	NO					
958161-6	NO					
958161-8	NO					
959397-1	NO		"090284-000", "AMP-0-0959397-1"			
960757-1	NO					
960762-1	NO					
960777-1	NO					
960815-1	NO					
960817-1	NO					
960818-1	NO					
960820-1	NO					
960821-1	NO					
960822-1	NO					
960823-1	NO					
960825-1	NO					
960830-1	NO					

Part Number	Part Discontinued per PCN	Customer Drawing	Alias Part Number(s)	Substitute Part Number	Substitute Alias Part Number(s)	Description Of Difference
960832-1	NO					
960939-1	NO					
960955-1	NO					

REVISIONS					
P	LTR	DESCRIPTION	DATE	DWN	APVD
	Z1	REVISED PER ECO-11-005150	21MAR2011	RK	HMR
	Z2	NEW DRAWING CREATED IN CREO	26JUNE2014	JB JH	BRUN
	Z3	NOTE 8 MODIFIED	18NOV2015	MAH.	BRUN
	Z4	TOLERANCES ADDED AT SECTION A-A AND B-B	21JAN2016	MAH.	BRUN

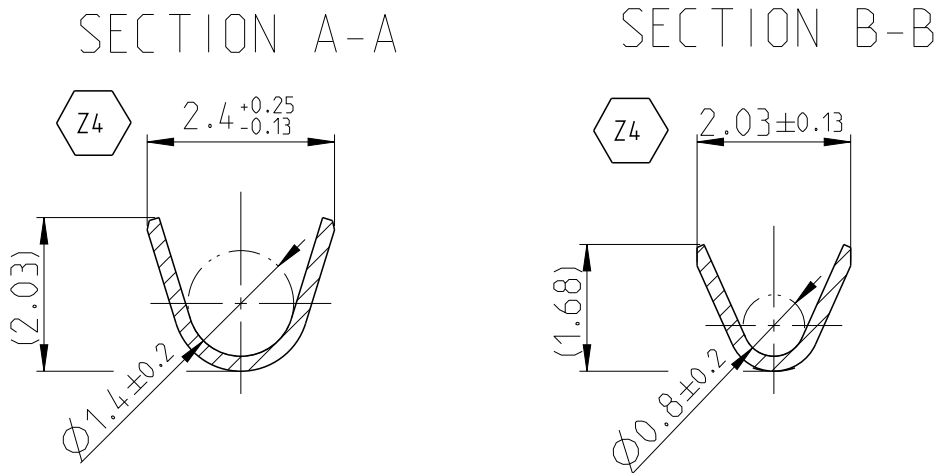


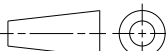
- NOTES:
- 1 UNDERCOATING: 0.8 μ m NICKEL OVERALL
CONTACT AREA: 0.8 μ m GOLD
CRIMP AREA: GOLDFLASH
 - 2 UNDERCOATING: 0.8 μ m NICKEL OVERALL
CONTACT AREA: 1.25 μ m GOLD
CRIMP AREA: GOLDFLASH
 - 3 SUITABLE FOR 0.64x0.64 POST
 - 6 UNDERCOATING: 0.8 μ m NICKEL OVERALL
CONTACT AREA: 0.4 μ m GOLD
CRIMP AREA: GOLDFLASH
 - 7 ADVANCED PROD. NRS. FOR DIN 41612 PART 5 SPEC
 - 8 PLATING: 2.0 μ m TIN OVER MIN. 0.5 μ m Ni OVERALL
 - 9 REVERSE REELED FOR USE WITH MINI APPLICATOR.
 - 10 STANDARD REELED FOR USE WITH STANDARD APPLICATOR.
 - 11 TRADE MARK.

WIRE RANGE:
20-24 (26) AWG
INSULATION RANGE:
1.40 MAX DIA.

SUPERSEDED BY 166500-2

166722-1	1	PHOSPHORBRONZE	1-166500-2	10	Z
166722-6	8		1-166500-1	10	Z
166722-6	8		166500-9	9	Z
166722-4	6		166500-7	9	W
166722-2	2		166500-4	9	Z
166722-1	1		166500-2	9	Z
LOOSE PIECE NUMBER		PLATING	MATERIAL	STRIPNUMBER	REV



THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN M.Pfeilschifter 18JUL2000		TE Connectivity					
		CHK V.Huhn 18JUL2000							
DIMENSIONS:	TOLERANCES UNLESS OTHERWISE SPECIFIED:	APVD		NAME					
mm	n. ISO 8015 n. ISO 2768-mH	-		STANDARD TANDEM SPRING RECEPTACLE					
	0 PLC	±							
	1 PLC	±0.2							
	2 PLC	±							
	3 PLC	±							
4 PLC	±	APPLICATION SPEC		SIZE					
ANGLES	±1°	-							
MATERIAL	FINISH	WEIGHT		CAGE CODE	DRAWING NO		RESTRICTED TO		
-	-	-		A3	00779	C-166500	-		
-	-	CUSTOMER DRAWING				SCALE	SHEET	OF	REV
						10:1	1	1	Z4



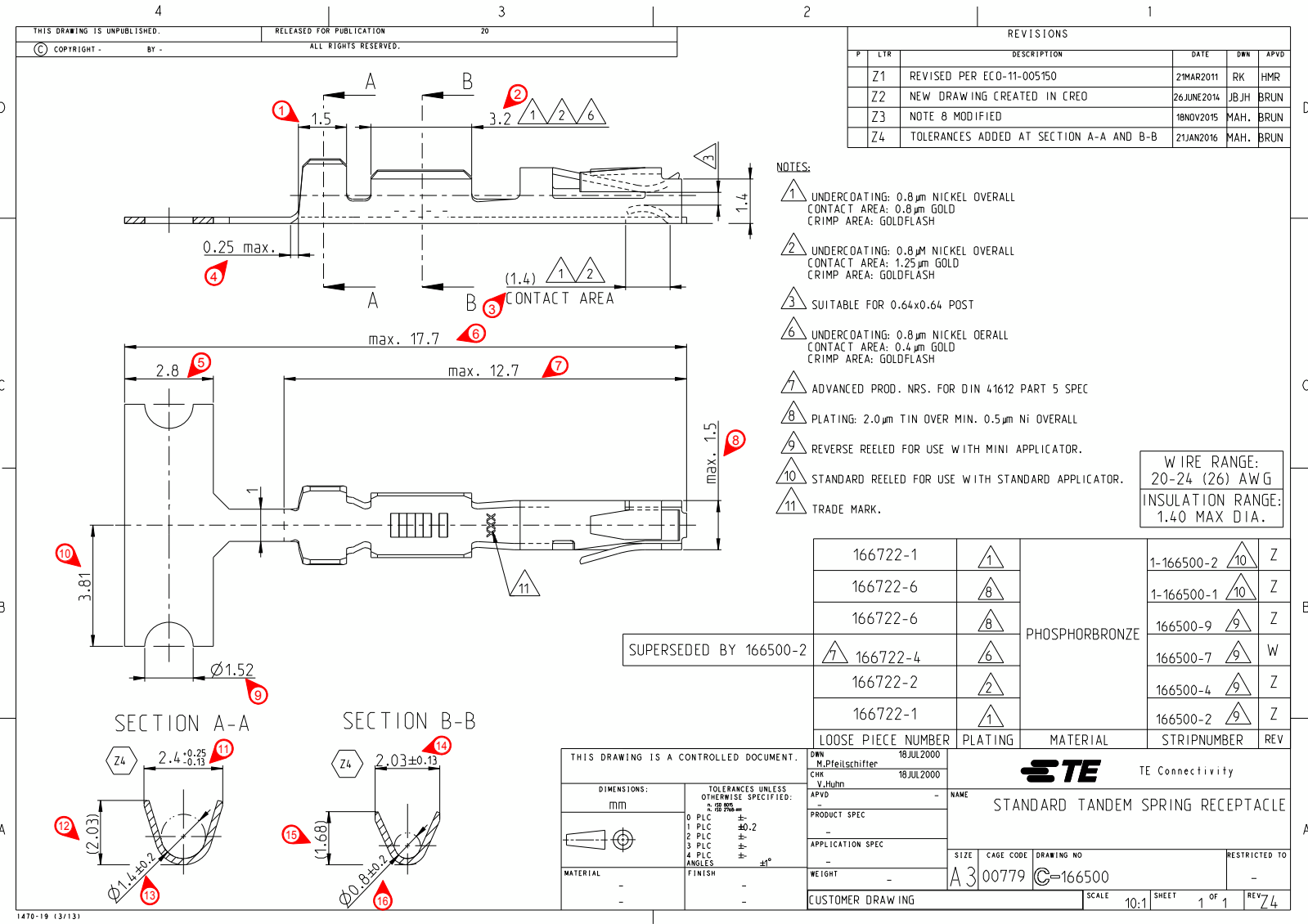
Production Part Approval Dimension Test Results

19/78944

ORGANIZATION: SUPPLIER/VENDOR CODE TYCO ELECTRONICS AMP GMBH					PART NUMBER 166500-2 PART NAME STANDARD TANDEM SPRING RECEPTOR					
INSPECTION FACILITY WOERT					DESIGN RECORD CHANGE LEVEL: C-166500 ENGINEERING CHANGE DOCUMENT Z4					
ITEM	DIMENSION/SPECIFICATION	SPECIFICATION / LIMITS		TEST DATE	QTY. TESTED	ORGANIZATION MEASUREMENT RESULT (DATA)			OK	NOT OK
	view top									
1	1.50	0.20	-0.20				1.48		X	
2	3.20	0.20	-0.20				3.18		X	
3	1.40	0.20	-0.20				1.42		X	
4	0.25	max.				on strip not measureable			X	
	view middle									
5	2.80	0.20	-0.20				2.8		x	
6	17.70	max					17.67		x	
7	12.70	max				on strip not measureable			x	
8	1.50	max					1.49		x	
9	dia 1.52	0.20	-0.20				1.49		x	
10	3.81	0.20	-0.20				3.85		x	
	section A-A									
11	2.40	0.25	-0.13				2.48		x	
12	(2.03)	Ref					1.99		x	
13	Ø 1,4	0.20	-0.20				Ø 1.5		x	
	section B-B									
14	2,03	0.13	-0.13				2.07		x	
15	(1,68)	ref					1.84		x	
16	Ø 0,8	0.20	-0.20				Ø 1		x	

Blanked statements of conformance are unacceptable for any test results

<u>SIGNATURE</u> Veda Kulkarni	<u>TITLE</u> Quality Engineering	<u>DATE</u> 24/04/2019
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Wieland-Werke AG D-89079 Ulm

TE Connectivity Germany GmbH
Pfnorstr. 1
64293 Darmstadt

Verladezone/Verladenr. : **000012/20562375**

Ihre Bestell-Nr.	: 2705292568
vom	: 26.07.2018
Ihre Materialnummer	: 2-703961-2 REV. S

Unsere Auftrags-Nr.	: 11998510 001
Unsere Fertigungsauftrags-Nr.	: **36498401**
Unsere Prüflos-Nr.	: 040005507456
Unsere Lieferschein-Nr.	: 82447961 010
Liefermenge	: 1.042,0 KG
Datum	: 02.10.2018

Abnahmeprüfzeugnis 3.1 nach EN 10204 : 2004

Halbzeug:

220 Band blank

Werkstoff:

Wieland B14 CuSn4

Ausführung: 380 doppelfederhart

Abmessungen:

Maß A: 0,2 mm -0,01 +0,01

Maß B: 19,56 mm -0,05 +0,05

Maß C:

Maß D:

Spezifikation:

TEC-100-221 H14=R605S

Revision/Ausgabedatum

Rev. AB

Bemerkungen:

Ihre Material-Nr.: 2-703961-2 REV. S

Chemische Zusammensetzung nach 3.1 EN 10204 : 2004

Fe Eisen-Gehalt	Pb Blei-Gehalt	P Phosphor-Gehalt
Sn Zinn-Gehalt	1F 1F = Kupfer + Zinn +	Zn Zink-Gehalt

Prüfmerkmal	FE	PB	P	SN	1F	ZN
Einheit	%	%	%	%	%	%
Minimum /Richtwert(R)			0,01	3,5	99,5	
Maximum/Richtwert(R)	0,1	0,05	0,1	4,5		0,3

Meßwerte:

Gussnummer

67522	< 0,1	< 0,05	0,03	4,0	Rest	< 0,3
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Abnahmeprüfzeugnis 3.1 nach EN 10204 : 2004

TE Connectivity Germany GmbH

Unsere Auftrags-Nr. : **11998510 001**
 Unsere Fertigungsauftrags-Nr. : **36498401**
 Unsere Prüflös-Nr. : 040005507456
 Unsere Lieferschein-Nr. : 82447961 010
 Liefermenge : 1.042,0 KG
 Datum : 02.10.2018

Ihre Bestell-Nr. : 2705292568
 vom : 26.07.2018
 Ihre Materialnummer : 2-703961-2 REV. S

Mechanische Prüfmerkmale

<i>RP0,2</i> <i>A50</i>	<i>Dehngrenze 0,2 %</i> <i>Bruchdehnung A50</i>	<i>RM</i>	<i>Zugfestigkeit Rm</i>
Prüfmerkmal	RP0,2	RM	A50
Einheit	MPa	MPa	%
Minimum /Richtwert(R)	530	605	13
Maximum/Richtwert(R)		660	

Meßwerte:

Probennummer

L6752 603 641 14

Weitere Prüfungen

Prüfmerkmal	Einheit	Soll-Werte bzw. Richtwert (R)		Ist-Werte	
		Min.	Max.	Min.	Max.
elektrische Leitfähigkeit in IACS	%	18		23	23
Korngröße	µm		15	4	4
Grat (Schneid-, Sägegrat)	mm		0,02	0,015	0,02
Biegebarkeit 180 Grad parallel R/T=1,5	Ergebnis	gut			
Biegebarkeit 180 Grad quer R/T=1,0	Ergebnis	gut			
Verschleißtest - Bänder	Ergebnis	gut			

RA Ra - arithm.Mittenrauhwert

Prüfmerkmal	RA
Einheit	µm
Minimum /Richtwert(R)	
Maximum/Richtwert(R)	0,3

Meßwerte:

Probennummer

L6752_1 0,1
 L6752_2 0,1

Abnahmeprüfzeugnis 3.1 nach EN 10204 : 2004

TE Connectivity Germany GmbH

Ihre Bestell-Nr.	: 2705292568
vom	: 26.07.2018
Ihre Materialnummer	: 2-703961-2 REV. S

Unsere Auftrags-Nr.	: 11998510 001
Unsere Fertigungsauftrags-Nr.	: **36498401**
Unsere Prüflös-Nr.	: 040005507456
Unsere Lieferschein-Nr.	: 82447961 010
Liefermenge	: 1.042,0 KG
Datum	: 02.10.2018

Maßprüfungen

Prüfmerkmal	Einheit	Soll-Werte bzw. Richtwert (R)		Ist-Werte	
		Min.	Max.	Min.	Max.
Breite	mm	19,51	19,61	19,54	19,566
Dicke	mm	0,19	0,21	0,2	0,2
Säbelförmigkeit auf 1000mm	mm		2	0,02	0,26
Rollkrümmung hängend auf 900 mm	mm		225	2	19
Verwindung liegend gemessen an 1m	mm/m		3,4	0,3	0,7

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).

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

MDS Report

Substances of assemblies and materials

This report is for internal Automotive industry use only. Distribution to non-Automotive clients is a violation of the Terms of Use, and is not permitted unless a written permission was given by DXC Technology. Parsing is not allowed.

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.: **166500-2**
Description: **Tandem Spring Receptacle**
Report No.: **-**
Date of Report: **-**
Purchase Order No.: **-**
Bill of Delivery No.: **-**
Preliminary MDS: **No**
IMDS ID / Version: **18283083 / 12**
Node ID: **788899480**
MDS Status (Change Date): **Internally released (11/29/2018)**

IMDS ID / Version: **18283083 / 12**
User: **Figueroa, Barbara**

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Date: **5/7/19 10:58:01 PM**

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.: **166500-2**
Description: **Tandem Spring Receptacle**

Report No.: **-**
IMDS ID / Version: **18283083 / 12**
Node ID: **788899480**

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, SVH	Parts Marking Recyclate (Indust./Consumer) Application [ID]
1	 Tandem Spring Receptacle	 166500-2	18283083 / 12		0.0945				
└2	 CuSn4		10742811 / 5		0.0942			 3.2	 No
└3	 Iron	 7439-89-6				0.05	0 - 0.1		
└3	 Nickel	 7440-02-0				0.1	0 - 0.2	 D	 Not applicable [34]
└3	 Phosphorus	 7723-14-0				0.205	0.01 - 0.4		

IMDS ID / Version: **18283083 / 12**
 User: **Figueroa, Barbara**

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 Date: **5/7/19 10:58:01 PM**

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]
└3	 Lead	 7439-92-1				0.01	0 - 0.02	 D / P /	 Concentration within SVHC acceptable GADSL limits [44]
└3	 Zinc (metal)	 7440-66-6				0.1	0 - 0.2		
└3	 Tin	 7440-31-5				4	3.5 - 4.5		
└3	 Misc., not to declare	 system				0.1	0 - 0.2		
└3	 Copper	 7440-50-8				95.435		 D	
└2	 e-plate Ni (bright) (electrodeposited Nickel bright)		749088 / 2		0.0002			 3.4	 No
└3	 Carbon	 7440-44-0				0.05	0 - 0.1		
└3	 Nitrogen	 7727-37-9				0.05	0 - 0.1		
└3	 Sulphur	 7704-34-9				0.075	0.05 - 0.1		
└3	 Nickel	 7440-02-0				99.825		 D	 Other application (Surface not routinely touched or nickel release rate < 0.5µg/cm2/week)
└2	 e-plate Au (functional) (electrodeposited functional Gold Coatings)		757906 / 2		0.0001			 4.2	 [33] No
└3	 Carbon	 7440-44-0				0.005	0 - 0.01		
└3	 Nitrogen	 7727-37-9				0.05	0 - 0.1		
└3	 Gold	 7440-57-5				99.945			

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CERTIFICATE



This is to certify that

TE Connectivity Germany GmbH

Amperestr. 12-14
73499 Wört
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.	515116 IATF16
Main certificate registration no.	515099 IATF16
Issuing date	2018-05-04
This certificate is valid until	2021-05-03
IATF No.	0303436



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.: 515116 IATF16
IATF-No.: 0303436

TE Connectivity Germany GmbH

Amperestr. 12-14
73499 Wört
Germany



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

Continuous Improvement, Customer Service,
Human Resource, Internal Audit Management,
Management Review, Policy making, Process
Design, Product Design, Production
Equipment Development, Purchasing, Quality
System Management, Sales, Supplier
Management

515515
TE Connectivity Germany GmbH
Amperestr. 11
91550 Dinkelsbühl
Germany

Logistics, Process design, Production
equipment development

515110
Tyco Electronics France SAS
1 rue Ampère
95300 Pontoise
France

Customer Service, Product Design, Sales

515514
Tyco Electronics AMP Italia Products S.r.l.
Corso Fratelli Cervi 15
10093 COLLEGNO TORINO
Italy

Aftersales, Sales



Annex to certificate registration no.: 515116 IATF16
IATF-No.: 0303436

TE Connectivity Germany GmbH

Amperestr. 12-14
73499 Wört
Germany



Remote Location

Scope

515115
TE Connectivity 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