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PPAP Package for:

Newark Electronics
Customer Part Number: 40Y0883
(TE Connectivity Part Number: 2-1703930-1)
November 2018

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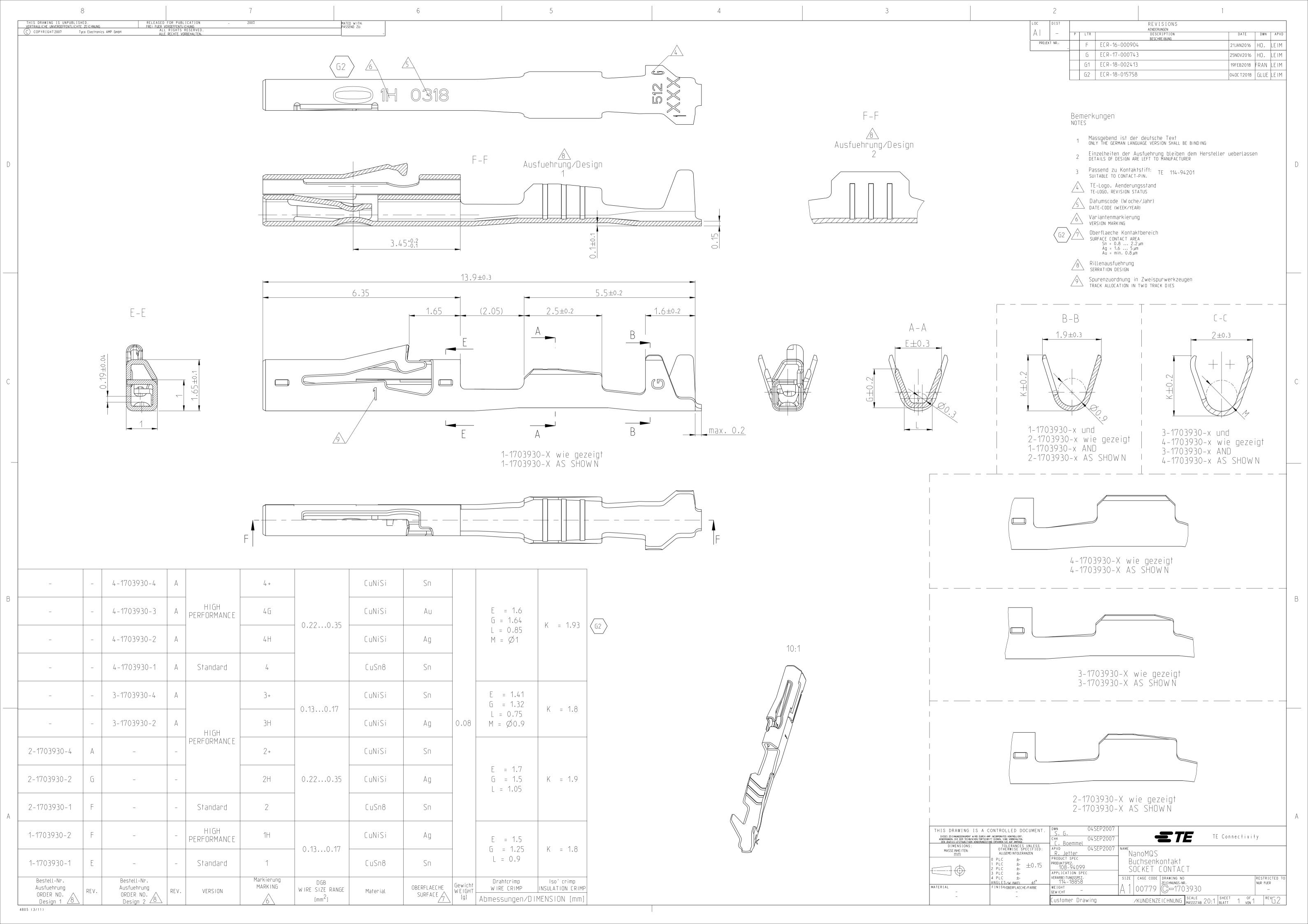
Nondisclosure Agreement

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





Section 2 Engineering Change Documents



Product Change Notification

Current Date: 05-Apr-2018

TE Connectivity

Product Change Notification: E-17-000743 PCN Date: 20-JAN-17

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:	
NanoMQS socket contact	

Description of Changes

Height of the transition area between wire crimp and body will be increased. (PN 2-1703930-1 and 2-1703930-2)

Other attachments:

change notice

Reason for Changes:						
Product Improvement. Increasing the robustnss of NanoMQS terminals PN 2-1703930-1 and 2-1703930-2 in the transition area between wire crimp and body to decrease the risk of damage during mounting of the terminals to the cavity.						
Estimated Dates:						
Last Order Date (Obsolete Parts Only):	First Date To Ship (Changed Parts Only):					
	20-AUG-2017					
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
2-1703930-1	NO					
<u>2-1703930-2</u>	NO					

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.

Customer Drawing(s) Being Modified:

Drawing Number	Current Revision	New Revision
1703930	F	



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.



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.



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.



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



Production Part Approval Dimension Test Results

18/71982

ORGANIZATION SUPPLIER/VENDER TYCO ELECTRONICS AMP GMBH				PART NUMBER		2-1703930-1			1902	
INSPECTION FACILITY					PART NAME NanoMQS SOCKET CONTACT DESIGN RECORD CHANGE LEVEL C-1703930					
WOERT				ENGINEERING CHANGE DOCUMEN G2						
ITEM	DIMENSION/ SPECIFICATION	USL (Tol+)	LSL (Tol-)						ОК	NOT OK
1	3.45	0.20	-0.10	•	Unable	to meas	sured		-	
2	0.10	0.10	-0.10			0.16			х	
3	0.15	0.15	-0.15			0.14			х	
4	0.19	0.04	-0.04			0.20			х	
5	1.65	0.10	-0.10			1.68			х	
6	1.00	0.15	-0.15			0.98			х	
7	1.00	0.15	-0.15			1.01			х	
8	6.35	0.15	-0.15			6.30			Х	
9	1.65	0.15	-0.15			1.65			х	
10	Ref 2.05	0.00	0.00			2.04			Х	
11	13.90	0.30	-0.30		,	13.84			Х	
12	2.50	0.20	-0.20			2.51			х	
13	5.50	0.20	-0.20			5.50			х	
14	1.60	0.20	-0.20			1.58			Х	
15	Max 0.20	0.00	-0.20	(On tha strip	p not m	easured		-	
16	1.90	0.20	-0.20			2.02			х	
17	1.90	0.30	-0.30			2.02			Х	
18	Dia 0.90	0.15	-0.15			0.93			Х	
19	1.50	0.20	-0.20			1.51			х	
20	1.70	0.30	-0.30			1.64			х	
21	0.30	0.15	-0.15			0.39			х	
22	1.05	0.15	-0.15			0.97			х	

Blanked statements of conformance are unacceptable for any test results

<u>SIGNATURE</u>	<u>TITEL</u>	<u>DATE</u>
Veda Kulkarni	Quality Engineering	12/10/2018



Production Part Approval Material Test Results

Page 1 of 1 Pages

18/71982

ORGANIZA	TION:				PART NUME	BER	2-1703930)-1		
SUPPLIER/	VENDOR CODE TYCO	ELECTRONICS	S AMP	GMBH	PART NAME NanoMQS SOCKET CONTACT					
					DESIGN RECORD CHANGE LEVEL: C-1703930 ENGINEERING CHANGE DOCUMENT G2					
		SPECIFICATION	TEST	QTY.	OPC	GANIZATION	MEASIDEM	IENIT		NOT
ITEM	IMENSION/SPECIFICATIO		DATE	TESTE	Onc		Γ (DATA)	ILIVI	ОК	OK
		LIMITS		D			· ,	1		
1	NanoMQS, Termina	al								
	1 2 2 2 2 2 2	<u> </u>								
	CuSn8				CuSn8				х	
	e-plate Sn				e-plate Si	n			х	
								1		
								<u> </u>		
		Blanked	statem	ents of c	onformance	are unacce	otable for an	v test results	3	

SIGNATURE

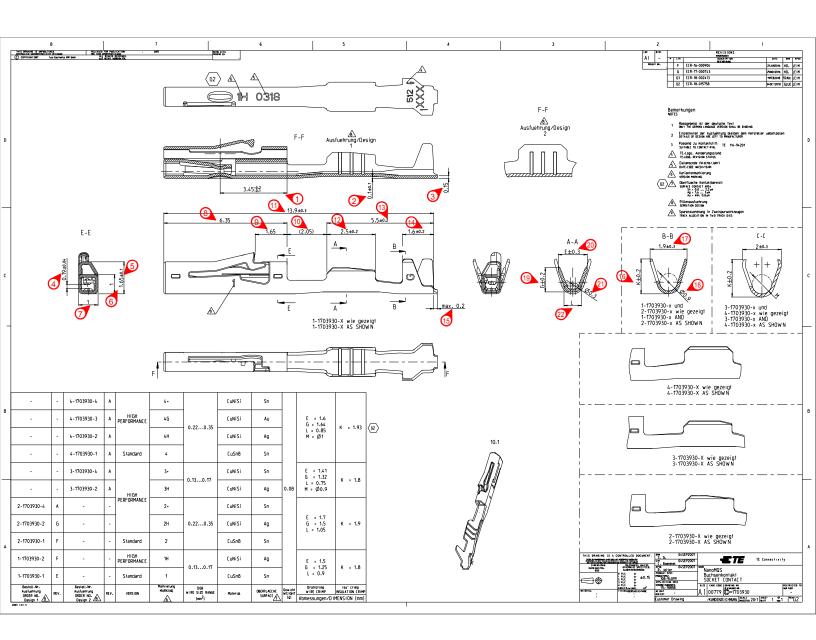
Veda Kulkarni

TITEL

Quality Engineering

DATE

12/10/2018





Section 10 Material, Performance Test Results

Approved Company ISO / TS 16949 : 2009



Wieland-Werke AG D-89070 Ulm

TE Connectivity Germany GmbH

Pfnorstr. 1 64293 Darmstadt Verladezone/Verladenr. :000012/20550750

 Ihre Bestell-Nr.
 : 2550111875

 vom
 : 14.11.2016

 Ihre Materialnummer
 : 705590-2 REV. D

Unsere Auftrags-Nr. : 20000815 001

 Unsere Fertigungsauftrags-Nr.
 : **36488552**

 Unsere Prüflos-Nr.
 : 040005369817

 Unsere Lieferschein-Nr.
 : 82385575 010

 Liefermenge
 : 3.312,5 KG

 Datum
 : 13.06.2018

Abnahmeprüfzeugnis 3.1 nach EN 10204 : 2004

Halbzeug: Abmessungen:

 230 Band verzinnt SnPUR®
 Maß A:
 0,15 mm
 -0,005
 +0,005

 Werkstoff:
 Maß B:
 17,9 mm
 -0,05
 +0,05

Wieland B18 CUSN8 Maß C:
Ausführung: 366 federhart, therm entspannt Maß D:

Spezifikation: Revision/Ausgabedatum

EN 1652

TEC-112-20-4 Rev. AC

TE Spec. 100-2158 Rev. C Temper H08 = R720

Bemerkungen:

Ihre Material-Nr.: 705590-2 REV. D

Chemische Zusammensetzung nach 3.1 EN 10204 : 2004

Die Summe der sonstigen E Cu Kupfer-Gehalt Ni Nickel-Gehalt Zn Zink-Gehalt	Elemente entsprich Fe Eisen-Ge P Phospho	ehalt	chemischen Norm genannten Vorgabe. **Pb Blei-Gehalt** Sn Zinn-Gehalt**				
Prüfmerkmal	CU	FE	РВ	NI	Р	SN	ZN
Einheit	%	%	%	%	%	%	%
Minimum /Richtwert(R)					0,01	7,5	
Maximum/Richtwert(R)		0,1	0,02	0,2	0,4	8,5	0,2
Meßwerte: Gussnummer							
51892	Rest	< 0,1	< 0,02	< 0,2	0,04	7,9	< 0,2



Seite 2 von 3

Abnahmeprüfzeugnis 3.1 nach EN 10204 : 2004

TE Connectivity Germany GmbH

 Ihre Bestell-Nr.
 : 2550111875

 vom
 : 14.11.2016

 Ihre Materialnummer
 : 705590-2 REV. D

Unsere Auftrags-Nr.
Unsere Fertigungsauftrags-Nr.

Unsere Prüflos-Nr. Unsere Lieferschein-Nr.

Liefermenge Datum : 20000815 001

: **36488552** : 040005369817 : 82385575 010 : 3.312,5 KG

: 13.06.2018

Mechanische Prüfmerkmale

RP0,2 A2"	Dehngrenze 0, Bruchdehnung			RM HV1	Zugfestigke Härte Vicke	
Prüfmerkma	ıl	RP0,2	RM	A2"	HV1	
Einheit		MPa	MPa	%		
Minimum /Ri	chtwert(R)	685	720	9	225	R
Maximum/Ri	chtwert(R)		825		265	R
Meßwerte:	ner					
R5189		738	764	14	242	

Weitere Prüfungen

Prüfmerkmal	Einheit Soll-Werte bzw. Richtwert (R)		lst-Werte		
		Min.	Max.	Min.	Max.
elektrische Leitfähigkeit in IACS	%	9		13,7	13,7
Korngröße	μm		10	4	4
Grat (Schneid-, Sägegrat)	mm		0,015	0,005	0,005
Biegbarkeit 90 Grad parallel R=0,3	Ergebnis	gut			
Biegbarkeit 90 Grad quer R=0	Ergebnis	gut			
Biegbarkeit 180 Grad parallel R=0,525	Ergebnis	gut			
Biegbarkeit 180 Grad quer R=0,15	Ergebnis	gut			
Schichtdicke, Feuerverzinnung Reinzinn	μm	1	2	1,3	2

RA	Ra - arithm.Mittenrauhwert		RAVZ	Ra - arithm.Mittenrauhwert Beschichtung	
Prüfmerkma	I	RA	RAVZ		
Einheit		μm	μm		
Minimum /Rid	chtwert(R)				
Maximum/Rid	chtwert(R)	0,3	0,35		

Meßwerte:

Probennummer

R5189 < 0,35 R5189_1 0,1



Seite 3 von 3

Abnahmeprüfzeugnis 3.1 nach EN 10204 : 2004

TE Connectivity Germany GmbH

 Ihre Bestell-Nr.
 : 2550111875

 vom
 : 14.11.2016

 Ihre Materialnummer
 : 705590-2 REV. D

Unsere Auftrags-Nr.
Unsere Fertigungsauftrags-Nr.
Unsere Prüflos-Nr.

Unsere Lieferschein-Nr.

Liefermenge Datum : **20000815 001** : **36488552** : 040005369817 : 82385575 010 : 3.312,5 KG

: 13.06.2018

R5189 2 0,1

Maßprüfungen

Prüfmerkmal	Einheit	Soll-Werte bzw. Richtwert (R)		lst-Werte	lst-Werte	
		Min.	Max.	Min.	Max.	
Breite	mm	17,85	17,95	17,88	17,92	
Dicke	mm	0,145	0,155	0,149	0,15	
Säbelförmigkeit auf 1000mm	mm		2	0	0,1	
Rollkrümmung hängend auf 300 mm	mm		190	8	15	
Verwindung liegend gemessen an 1m	mm/m		3,2	0,5	0,5	

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 ISO/TS 16949:2009 hergestellt. Unser Qualitätsmanagementsystem wird laufend überwacht (IATF Zertifikats Nr. 0219082).

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



Section 11 Initial Process Studies



Not Applicable



Section 12 Qualified Laboratory Documentation



CERTIFICATE



This is to certify that

TE Connectivity Germany GmbH

Amperestr, 12-14 73499 Wort 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 IATE No. 0303436

2-IAO-QMC-01001

Cuertonel

For and on behalf of DQS

Stefan Heinloth Managing Director, DOS GmbH

Michael Drechael 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 Benshelm 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 i

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.i. Aftersales, Sales Corso Fratelli Cervi 15 10093 COLLEGNO TORINO Italy



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 Tangler 90 000 Tangler Morocco

Warehousing

525515 TE Connectivity Tunisia office Immeuble Lake Forum, 4 ème étage 5 rue de la feuille d'érable

Warehousing

1053 Tunis Tunisia





Reg. Number

14696 - T

First issue date

2018-08-28

Last change date

2018-08-28

Valid Until

2021-08-27

IATF Number

0328089

Quality Management System Certificate

IATF 16949:2016

We certify that the Quality Management System of the Organization:

Wieland-Werke AG, BU Engineered Products Ulm

Is in compliance with the standard IATF 16949:2016 for the following products/services:

Design and Manufacturing of Engineered Products (Assembled Parts, Components for eMobility and Slide Bearings made from Copper Alloys).

Chief Operating Officer Giampiero Belcredi

Exclusions: None

This certificate is issued in conformity with IATF Rules – Fifth Edition.

Maintenance of the certification is subject to annual survey and dependent up

Maintenance of the certification is subject to annual survey and dependent upon the observance of Kiwa Cermet Italia contractual requirements.

This certificate is composed of 1 page.

Wieland-Werke AG, BU Engineered Products Ulm

Certified Sites

- Graf-Arco-Straße, 36 89079 Ulm - Germany

Support Functions

Wieland-Werke AG Vöhringen - Wielandstraße, 26 89269 Vöhringen - Germany (Information Technologies, Laboratory, Testing)

Wieland-Werke AG, Zentrale Ulm - Graf-Arco-Straße, 36 89079 Ulm - Germany (Continuous improvement, Contract review, Finance, Human resources, Information technologies, Internal audit management, Laboratory, Maintenance, Policy making, Production equipment development, Quality system management, Testing)



SERTE CA

Kiwa Cermet Italia S.p.A. Società con socio unico, soggetta all'attività di direzione e coordinamento di Kiwa Italia Holding Srl

Via Cadriano, 23 40057 Granarolo dell'Emilia (BO)

Tel +39.051.459.3.111 Fax +39.051.763.382 E-mail: info@kiwacermet.it www.kiwacermet.it



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



Records of Compliance with Customer-Specific Requirements

IMDS ID / Version: 129161804 / 7 Page: 1 / 3

User: Figueroa, Barbara Date: 11/5/18 4:20:27 PM

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.: **2-1703930-1**

Description: NanoMQS, Terminal

Report No.:

Date of Report: Purchase Order No.: -

Bill of Delivery No.:

Preliminary MDS: No

IMDS ID / Version: 129161804 / 7
Node ID: 762126747

MDS Status (Change Internally released

(08/09/2018)



IMDS ID / Version: 129161804 / 7 Page: 2 / 3

User: Figueroa, Barbara Date: 11/5/18 4:20:27 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.: 2-1703930-1 Report No.: -

Description: NanoMQS, Terminal IMDS ID / Version: 129161804 / 7

Node ID: **762126747**

Tree Level	Description Article Name Name Substance name	Part/Item No. Item-/MatNo. Material-No. CAS No.	IMDS ID / Version	Quantity	Weight	Portion [%]	Portion (from - to) [%]	Classif. GADSL, SVH	Parts Marking Recyclate (Indust./Consumer) Application [ID]
1	NanoMQS, Terminal	2 -1703930-1	129161804/7		0.0795				
<u>-</u> 2	№ CuSn8		10279634 / 7		0.0792			% 3.2	№ No
- 3	♠ Iron	4 7439-89-6				0.05	0 - 0.1		
-3	♠ Nickel	3 7440-02-0				0.1	0 - 0.2	♦ D	Not applicable [34]
-3	A Phosphorus	7723-14-0				0.205	0.01 - 0.4		



IMDS ID / Version: 129161804 / 7 Page: 3 / 3

User: Figueroa, Barbara Date: 11/5/18 4:20:27 PM

Tree Level	Description Article Name Name	Part/Item No. Item-/MatNo. Material-No.	IMDS ID / Version	© Quantity	② → → Weight	Portion	Portion (from - to)	Classif.	Parts Marking Recyclate (Indust./Consume)
		🔷 CAS No.			[g]	[%]	[%]	SVI	H¢ △ Application [ID]
-3	♠ Lead	4 7439-92-1				0.01	0 - 0.02	♣D/P/ SV	(A) Concentration w ithin (Hacceptable GADSL limits [44]
 -3	♠ Zinc (metal)	4 7440-66-6				0.1	0 - 0.2		
- 3	♦ Tin	4 7440-31-5				8	7.5 - 8.5		
 -3	♠ Misc., not to declare	system				0.1	0 - 0.2		
-3	♠ Copper	4 7440-50-8				91.435		♦ D	
-2	e-plate Sn (electrodeposited Tin Coatings, bright and matt)		756885 / 5		0.0003			4.2	No No
-3	♠ Carbon	4 7440-44-0				0.505	0.01 - 1		
-3	♦ Sulphur	4 7704-34-9				0.02	0 - 0.04		
-3	♠ Lead	4 7439-92-1				0.015	0 - 0.03	♦D/P/	Concentration w ithin 'Hacceptable GADSL limits [44]
-3	♠ Tin	4 7440-31-5				99.46			
		This is an und	controlled copy of a	document	created by	IMDS. End	of the report.	•	





Section 18 Part Submission Warrant



Part Submission Warrant

Part Name	art Name NanoMQS SOCKET CONTACT		Cust. Pa	rt Number	40Y0883			
Shown on Drawing Number C-1703936		C-1703930	Org.Pa	rt Number	2-1703930-1			
Engineering Change Lev	el	G2		Dated	04-OCT-2018			
Additional Engineering Cl	nanges <u>n/a</u>			Dated	n/a			
Safety and/or Governmen	nt Regulation Y	es 🗸 No	Purchase Order No	o. n/a	Weight (kg) 0.00007			
Checking Aid Number	n/a Ch	ecking Aid Engineerii	ng Change Level	n/a	Datedn/a			
ORGANIZATION MAN	IUFACTURING INFORMA	TION	CUSTOMER	SUBMITTAL IN	FORMATION			
TYCO ELECTRONI Organization Name and S		323462481	Newark Ele Customer Nam					
AMPERESTR 14 Street Address			N/A Buyer/Buyer Co	ode				
WOERT B	W 73499	Germany	Various					
City Re	gion Postal Code	Country	Application					
MATERIALS REPORTIN Has customer-required S	G ubstance of Concern informat Submitted by IMDS or other o		Yes 129161804 / 7	☐ No	□ n/a			
	fied with appropriate ISO mar	king codes?	Yes	□ _{No}	n/a			
Initial submission Engineering Cha Tooling: Transfel		nt, or additional		= :	nal Construction or Material Material Source Change Processing			
Correction of Dis								
REQUESTED SUBMISS	ON LEVEL (Check one)			E-′	17-000743			
Level 2 - Warran Level 3 - Warran Level 4 - Warran	t only (and for designated app t with product samples and lin t with product samples and co t and other requirements as d t with product samples and co	nited supporting data omplete supporting data lefined by customer.	submitted to customer.					
The results for	dimensional measurement sign record requirements: Stamping St	✓ material and fu	inctional tests	pearance criteria ution Required)	statistical process package			
l affirm that the samples in Approval Process Manual	epresented by this warrant and 4th Edition Requirements. I finted evidence of such compliants Production rate is	urther affirm that thes ance is on file and is a	e samples were produced	at the production	rate of proprietary / 8 hours			
Is each Customer Tool pr	operly tagged and numbered	? [Yes No	√ N/A				
Organization Authorized	Signature	Barb	ara Figueroa		Date 05-Nov-2018			
Print Name Barba	ra Figueroa	Phone No	. +52 662 500 3680	Fax	N/A			
Title PPAP Techn	ician	Email	barbara.figueroa@	te.com				
PPAP Warrant Dispositio		Rejected	ONLY (IF APPLICABLE) Other					
Customer Signature		_ ,			Date			
Print Name	_		Customer Tracking Nun	nher (ontional)	·			
I IIII Naiiie			Customer Hacking Num	nber (optional)				



Section 18a **Bulk Material Requirements**



Not Applicable