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PPAP Package for:

Newark Electronics Customer Part Number: 17R2906 (TE Connectivity Part Number): 1241394-1 Aug-2021

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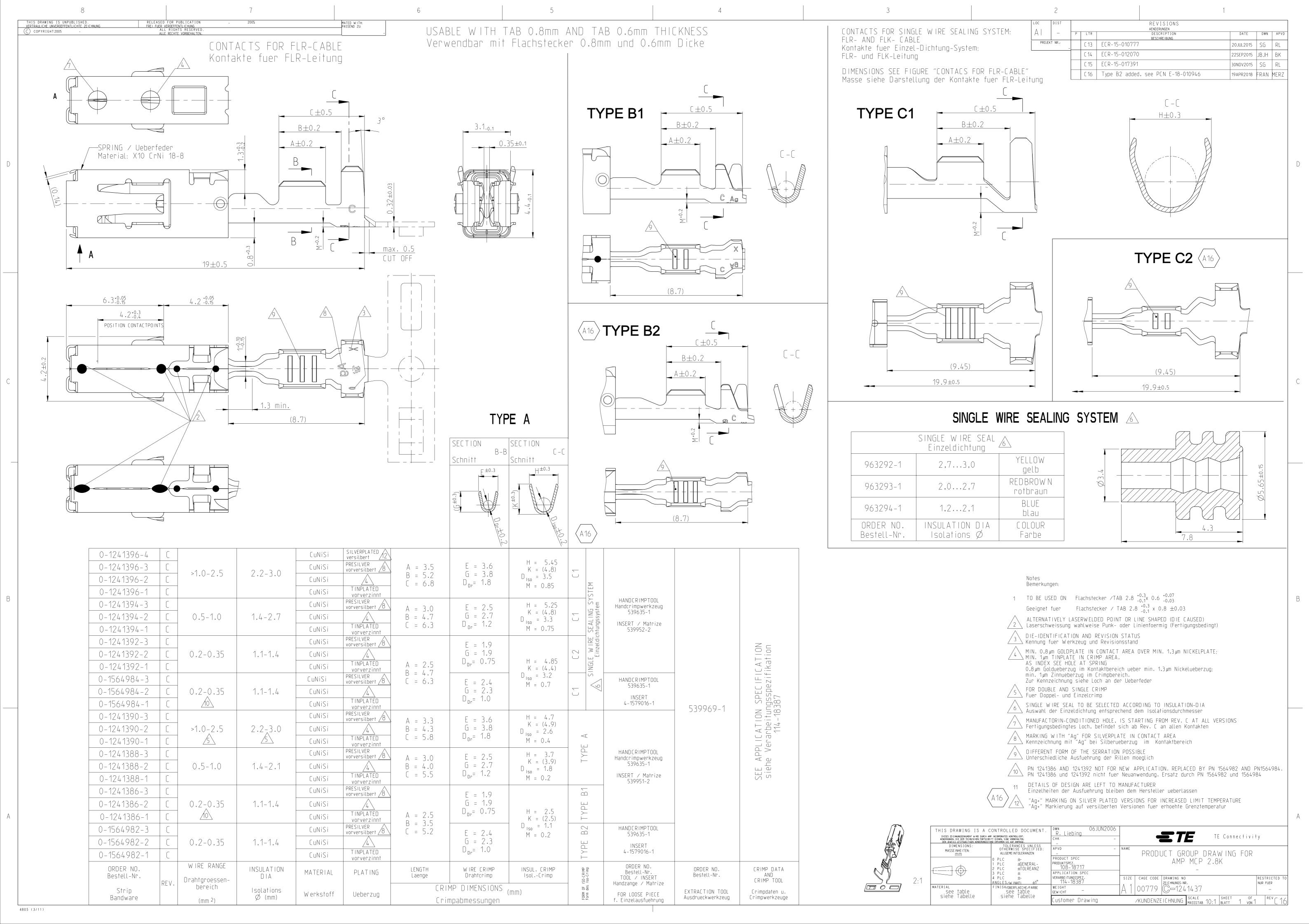
Nondisclosure Agreement

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: 29-Jul-2020

TE Connectivity

Product Change Notification: P-20-019110 PCN Date: 20-MAY-20

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:	
AMP MCP 2.8K, CONTACT, Sealed	
-	

Description of Changes TE Connectivity Brazil would like to inform about local production of AMP MCP 2.8K, CONTACT, SEALED listed in this PCN.

lear Customer, we hereby inform you about local production of AMP MCP 2.8K, CONTACT, SEALED listed in this PCN. Brazil Production is to better meet customer demands and							
improve our delivery. The Brazil Manufacturing location operates under certified quality management system in accordance with standard concerned automotive requirements.							
A TE internal release test based on relevant part specification	ations will be executed before delivery. PPAP will be submitted before SOP for all customers which had required.						
Estimated Dates:	Estimated Dates:						
Last Order Date (Obsolete Parts Only): First Date To Ship (Changed Parts Only):							
	20-AUG-2020						

Last Order Date (Obsolete Parts Only): First Date To Ship (Changed Parts Only): 20-AUG-2020 Last Ship Date (Obsolete Parts Only): Last Date for Mixed Shipments: (Changed Parts Only): No Mixed Shipments

Part Number(s) being Modified:

Reason for Changes:

Part Number	Part Discontinued per PCN	Customer Drawing	Alias Part Number(s)	Substitute Part Number	Substitute Alias Part Number(s)	Description Of Difference
<u>1241394-1</u>	NO					
<u>1241396-1</u>	NO					



Section 3 Customer Engineering Approval



Not Applicable



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



Dimensional Test Results

Organization: TE Connectivity Brazil Part Name: AMP MCP 2.8K, CONTACT, SWS

Inspection Facility TE Connectivity Brazil Cust. Part Number: 1241394-1

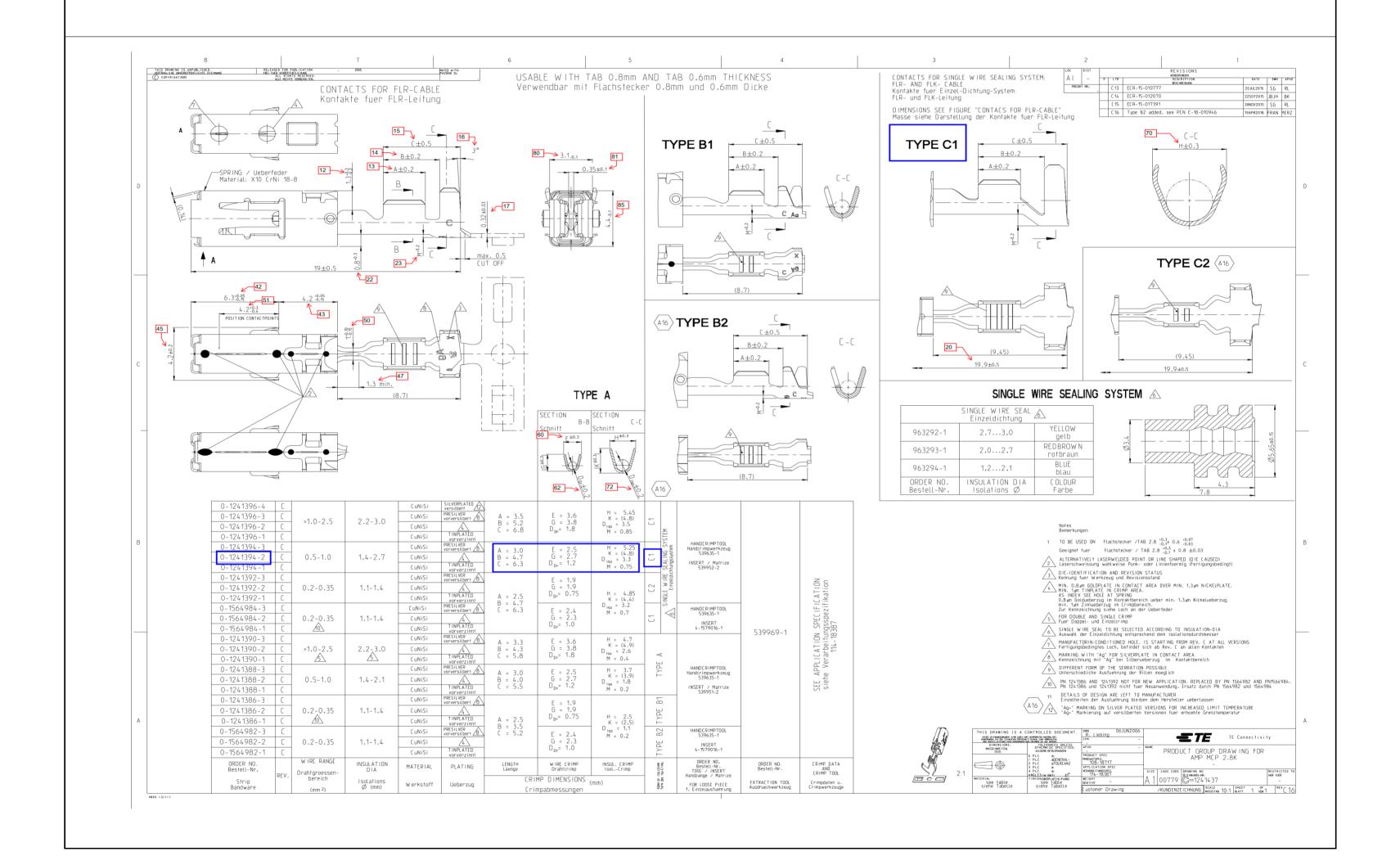
Shown on Drawing No.: C-1241437

Engineering Change Level: C16

ITEM		MENSIO ECIFICAT			CATION / IITS	TEST DATE	QTY. TESTED	ORGANIZATION MEASUREMENT RESULTS (DATA)			ок	NOT OK
-	Construction	on accord	ing:									
	Drawing C-	-1241437		-	-	-	-	According			X	
_	Acabamen	to de con	strução	-	-	-	_	According			X	
-	Dimension	al (mm)		Min.	Max.	Date						
	Nominal		+					Part 1				
12	1,3	0,2	0,3	1,1	1,6	21-Dec-20	01	1,321			X	
13-1	3	0,2	0,2	2,8	3,2	21-Dec-20	01	3,029			X	
13-2	3	0,2	0,2	2,8	3,2	21-Dec-20	01	3,022			X	
14-1	4,7	0,2	0,2	4,5	4,9	21-Dec-20	01	4,739			X	
14-2	4,7	0,2	0,2	4,5	4,9	21-Dec-20	01	4,754			X	
15-1	6,3	0,5	0,5	5,8	6,8	21-Dec-20	01	6,367			X	
15-1	6,3	0,5	0,5	5,8	6,8	21-Dec-20	01	6,399			X	
16-1	3	1	1	2,0	4,0	21-Dec-20	01	2,241			X	
16-2	3	1	1	2,0	4,0	21-Dec-20	01	2,189			X	
17	0,32	0,03	0,03	0,29	0,35	21-Dec-20	01	0,322			Х	
20	19,9	0,5	0,5	19,40	20,40	21-Dec-20	01	19,783			Х	
22	0,8	0	0,3	0,8	1,1	21-Dec-20	01	0,907			Х	
23	0,75	0	0,2	0,8	1,0	21-Dec-20	01	0,793			X	
42	6,3	0,15	0,05	6,2	6,4	21-Dec-20	01	6,294			X	
43	4,2	0,15	0,05	4,1	4,3	21-Dec-20	01	4,131			Х	
45	4,2	0,2	0,2	4,0	4,4	21-Dec-20	01	4,350			Х	
47	1,3	0	999	1,3	1000,3	21-Dec-20	01	1,755			X	
47	1,3	0	999	1,3	1000,3	21-Dec-20	01	1,699			Х	
50	1,0	0,15	0,1	0,9	1,1	21-Dec-20	01	0,925			Х	
51	4,2	0,4	0,3	3,8	4,5	21-Dec-20	01	4,049			Х	
60	2,5	0,3	0,3	2,2	2,8	21-Dec-20	01	2,596			Х	
62	1,2	0,2	0,2	1,0	1,4	21-Dec-20	01	1,143			Х	
70	5,25	0,30	0,30	4,95	5,55	21-Dec-20	01	5,310			Х	
72	3,30	0,2	0,2	3,1	3,5	21-Dec-20	01	3,212			Х	
80	3,10	0,1	0	3,0	3,1	21-Dec-20	01	3,044			X	
81	0,35	0,1	0,1	0,3	0,5	21-Dec-20	01	0,361			Х	
85	4,40	0,1	0	4,3	4,4	21-Dec-20	01	4,396			Х	

Signature Title Date

Page 01 of 01 Pages Rafael Moreira de Souza Quality Engineer June 23, 2021





Section 10 Material, Performance Test Results



Production Part Approval

Material Test Results

Organization: TE Connectivity Brazil Part Name: AMP MCP 2.8K, CONTACT, SWS

Material Supplier: TE Connectivity Brazil Cust. Part Number: 1241394-1

Name of Laboratory: TE Connectivity Brazil Shown on Drawing No.: C-1241437

Engineering Change Level: C16

MATERIAL SPEC. №. / REV. / DATE	SPECIFICATIO LIMITS	TEST DATE	QTY. TESTED	SUPPLIER TEST RESULTS (DATA)	ок	NOT OK
- Material:						
Coil/Slit 1.4310(HT5) 2H 0.14x15.5m		29-Apr-21	Batch	SC Otelinox AS	X	
CuNiSi		22-Apr-21	Batch	Wieland K55 CuNi3Si1Mg	Х	
						1
						1
						+
						+
						+
						+
						+
						1

Signature Title Date

Rafael Moreira de Souza Quality Engineer June 23, 2021





A subsidiary of SAMSUNG C&T

MANAGEMENT SYSTEMS CERTIFIED ACCORDING TO ISO 9001 & IATF 16949, ISO 14001, ISO 45001 LABORATORY ACCREDITED ACCORDING TO ISO/IEC 17025

INSPECTION CERTIFICATE						
	1000591684					
(acco	rding to DIN EN 10204, type 3.1)					
Manufacturer: SC Otelinox SA						
Adress:	16, Gaesti Street, Targoviste, 130087, Romania					

IDENTITY

Product:	Coil/Slit 1.4310(HT5) 2H 0.14x15.5mm COIL					
Customer:	TE CONNECTIVITY BRASIL INDÚSTRIA DE					
SO No. / Cust PO.	1000397862 / PO 2713985455					
Customer Art No:	705410-4					
Otx Art No:	N10989 BR					
Spec No:	EN 10088-2 ; TEC-100-309-2 rev U ; ID 875 Version A1	EN 10088-2 ; TEC-100-309-2 rev U ; ID 875 Version A1				
Pallet No.	1000591684					
Coil No.	5E24/201-213027/2/A/2 / 11 12 13 14 15 16 17 18		1			
			/			
Net Weight [kg]	816					
Heat Treatment	Without					

CHEMICAL A	ANALISYS(%)	Heat No: 0DI	LX	Melti	ng 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	0.1000	1.0380	0.9170	0.02700	0.00100	16.7050	6.4150
Element	Mo	Ti	N	Al	Cu	Со	
Req. (min-max)	MAX 0.8	xxx	MAX 0.10	xxx	xxx	xxx	
Maggurad	0.3780	vvv	0.0610	vvv	vvv	vvv	

TEST RESULTS

Test Direction	Longitudinal					
Position/Test No:	T/ 297	B/ 298				
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	xxx	
T	1,165	1,411	21.5	432	0.20	Ok
В	1,171	1,402	20.0	430	0.19	Ok

GEOMETRY MEASUREMENTS

Requirement	Thick[mm]	Width[mm]	Burr[%/mm]
Nominal Value	0.140	15.50	
min/max	-0.010/0.007	-0.05/0.05	max 5%
Min	0.139	15.480	2.2
Max	0.141	15.490	2.9

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, 29.04.2021 Work Inspector: MOISE VIOLETA





wieland

Page 1 of 4

Wieland-Werke AG D-89079 Ulm

TE Connectivity Brasil Industria de Eletronicos Ltda. Rua Ampere 304 Campo Da Penha BRAGANCA PAULISTA 12929-570 BRASILIEN

 Your order No.
 2715181593

 Date
 Feb 8, 2021

 Your material No.
 7-703314-6

 Our confirmation No.
 12200681 001

 Our delivery note No.
 82908648 010

 Quantity delivered
 4992 KG

Apr 22, 2021

Inspection certificate 3.1 as per EN 10204 : 2004

Product: Dimensions:

 Tinned strip
 Dim A: 0,32 mm
 - 0.01
 + 0.002

 Material:
 Dim B: 25 mm
 - 0.05
 + 0.05

Date

Wieland K55 CuNi3Si1Mg Dim C: Dim D:

Specification: Revision/Date of issue: Temper designation

Further applicable spec TEC 100-1086 Chem. Comp. Rev. Z
Further applicable spec TEC-112-20-8 Rev. AE

Further specifications: TE-Spec. 100-1086 Rev. Z

Further specifications: Temper R620S

Further specifications: Verp. n. 107-18010 Rev. F

Remarks:

 Coil-No.
 3655030406
 3655030407
 3655030408

 Heat-No.
 R2520.0004
 L2515.0004
 R2520.0003

 Prod-No.
 36548580
 36548580
 36548580

Chemical composition as 3.1 EN 10204 : 2004

The sum of the other elements corresponds to what is specified in the chemical standard.

CuCopperFeIronPbLeadMgMagnesiumNiNickel1B1B = Nickel + Cobalt

Zn Zinc

Specified values:

Parameter tested (in %) Cu Pb Ni 1B Zn Fe Mg 0,05 2,2 Minimum/Reference(R) 0,05 0,3 4,2 Maximum/Reference(R) 0.2

Measured values:*

Heat/Lot No.



wieland

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TE Connectivity Brasil Industria

Mechanical testing

Your order No.	2715181593	
Date	Feb 8, 2021	
Your material No.	7-703314-6	

 Our confirmation No.
 12200681 001

 Our delivery note No.
 82908648 010

 Quantity delivered
 4992 KG

 Date
 Apr 22, 2021

Inspection certificate 3.1 as per EN 10204 : 2004

2515	97,071	< 0,2	< 0,05	0,07	2,2	2,2487	0,1
2515	97,089	< 0,2	< 0,05	0,07	2,3	2,2586	0,1
2520	97,006	< 0,2	< 0,05	0,07	2,2	2,2497	0,2
2520	97,025	< 0,2	< 0,05	0,07	2,3	2,2546	0,2
Mn Manganese	Si Silicon						
Specified values:							
Parameter tested (in %)	Mn	Si					
Minimum/Reference(R)		0,25					
Maximum/Reference(R)	0,1	1,2					
Measured values:*							
Heat/Lot No.							
2515	< 0,1	0,42					
2515	< 0,1	0,42					
2520	< 0,1	0,42					
2520	< 0,1	0,42					



wieland

Page 3 of 4

TE Connectivity Brasil Industria

Your order No.	2715181593	
Date	Feb 8, 2021	
Your material No.	7-703314-6	

Our confirmation No.
Our delivery note No.
Quantity delivered
Date

12200681 001 82908648 010 4992 KG Apr 22, 2021

Inspection certificate 3.1 as per EN 10204 : 2004

RM Tensile strength Rm	RP0,2 Rp 0.2 % yield strength	A2" Elongation A2"
HV5 Vickers hardness HV5		
Specified values:		

Parameter tested	RM	RP0,2	A2"	HV5	
Unit	MPa	MPa	%		
Minimum/Reference(R)	620	550	14,0	180	R
Maximum/Reference(R)		600		220	R

sample number				
L2515_A	696	561	17,2	208
L2515_E	695	560	16,6	208
R2520_A	697	560	17,3	206
R2520 F	695	558	17 1	207

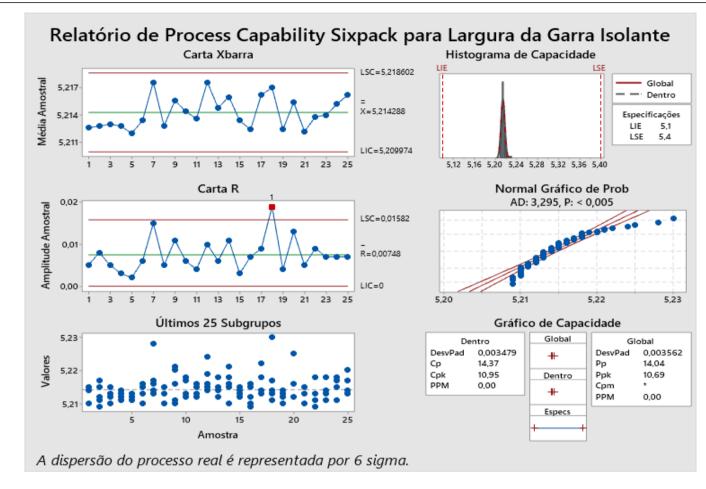
Further inspections

Measured values:

Test method	Unit	Specified		Measured	
		Reference	e(R)		
		Min.	Max.		
Electrical conductivity	MS/m	23		27,19	27,19
Electrical conductivity - IACS	%	39,66		46,88	46,88
Grain size	μm		30	7	8
90° bend test parallel R=0				Result go	od
90° bend test perpend. R=0				Result go	od
180° bend test perpend.				Result go	od
180° bend test parallel R=0,32 MM				Result go	od
Ra - arithmetic average roughness	μm		0,3	0,063	0,082
Ra arithm. average roughness coating	μm		0,35	0,35	0,35
SnTEM®				Result go	od
Coating thickness pure tin	μm	0,8	2	1,3	1,9



Section 11 Initial Process Studies



5,216

5,213

5,215

5,210 5,2<u>1</u>3

5,213

5,214

5,216

5,217

5,228

5,213

5,215

5,213

5,210

5,213

5,210

5,211

5,221

5,220

5,216

5,218

5,213

5,217

5,212

5,212

Dimension:

5,10 ~ 5,40 mm

Report Date:

June 10, 2021

Equipment:

Otto Technology PSS-40

001	5,214	026
002	5,214	027
003	5,210	028
004	5,215	029
005	5,210	030
006	5,211	031
007	5,209	032
800	5,217	033
009	5,215	034
010	5,212	035
011	5,212	036
012	5,215	037
013	5,210	038
014	5,213	039
015	5,215	040
016	5,214	041
017	5,214	042
018	5,213	043
019	5,212	044
020	5,211	045
021	5,213	046
022	5,211	047
023	5,212	048
024	5,212	049
025	5,212	050

051	5,215
052	5,213
053	5,212
054	5,216
055	5,212
056	5,214
057	5,224
058	5,215
059	5,219
060	5,216
061	5,218
062	5,212
063	5,215
064	5,214
065	5,215
066	5,215
067	5,218
068	5,221
069	5,210
070	5,216
071	5,213
072	5,214
073	5,213
074	5,212
075	5,215

076	5,215
077	5,216
078	5,210
079	5,212
080	5,209
081	5,218
082	5,213
083	5,214
084	5,222
085	5,214
086	5,213
087	5,211
088	5,214
089	5,230
090	5,217
091	5,213
092	5,214
093	5,213
094	5,212
095	5,210
096	5,216
097	5,212
098	5,212
099	5,225
100	5,212

101 5,215 102 5,213 103 5,210 104 5,213 105 5,210 106 5,213 107 5,209 108 5,211 109 5,218 110 5,218 111 5,214 112 5,218 113 5,213 114 5,214 115 5,211 116 5,215 117 5,218 118 5,217 119 5,215 120 5,211 121 5,220 122 5,217 123 5,213 124 5,217		
103 5,210 104 5,213 105 5,210 106 5,213 107 5,209 108 5,211 109 5,218 110 5,218 111 5,214 112 5,218 113 5,213 114 5,214 115 5,211 116 5,215 117 5,218 118 5,217 119 5,215 120 5,211 121 5,220 122 5,217 123 5,213	101	5,215
104 5,213 105 5,210 106 5,213 107 5,209 108 5,211 109 5,218 110 5,218 111 5,214 112 5,218 113 5,213 114 5,214 115 5,211 116 5,215 117 5,218 118 5,217 119 5,215 120 5,211 121 5,220 122 5,217 123 5,213 124 5,217	102	5,213
105 5,210 106 5,213 107 5,209 108 5,211 109 5,218 110 5,218 111 5,214 112 5,218 113 5,213 114 5,214 115 5,211 116 5,215 117 5,218 118 5,217 119 5,215 120 5,211 121 5,220 122 5,217 123 5,213	103	5,210
106 5,213 107 5,209 108 5,211 109 5,218 110 5,218 111 5,214 112 5,218 113 5,213 114 5,214 115 5,211 116 5,215 117 5,218 118 5,217 119 5,215 120 5,211 121 5,220 122 5,217 123 5,213 124 5,217	104	
107 5,209 108 5,211 109 5,218 110 5,218 111 5,214 112 5,218 113 5,213 114 5,214 115 5,211 116 5,215 117 5,218 118 5,217 119 5,215 120 5,211 121 5,220 122 5,217 123 5,213 124 5,217	105	5,210
108 5,211 109 5,218 110 5,218 111 5,214 112 5,218 113 5,213 114 5,214 115 5,211 116 5,215 117 5,218 118 5,217 119 5,215 120 5,211 121 5,220 122 5,217 123 5,213 124 5,217	106	5,213
109 5,218 110 5,218 111 5,214 112 5,218 113 5,213 114 5,214 115 5,211 116 5,215 117 5,218 118 5,217 119 5,215 120 5,211 121 5,220 122 5,217 123 5,213 124 5,217	107	5,209
110 5,218 111 5,214 112 5,218 113 5,213 114 5,214 115 5,211 116 5,215 117 5,218 118 5,217 119 5,215 120 5,211 121 5,220 122 5,217 123 5,213 124 5,217	108	5,211
111 5,214 112 5,218 113 5,213 114 5,214 115 5,211 116 5,215 117 5,218 118 5,217 119 5,215 120 5,211 121 5,220 122 5,217 123 5,213 124 5,217	109	5,218
112 5,218 113 5,213 114 5,214 115 5,211 116 5,215 117 5,218 118 5,217 119 5,215 120 5,211 121 5,220 122 5,217 123 5,213 124 5,217	110	5,218
113 5,213 114 5,214 115 5,211 116 5,215 117 5,218 118 5,217 119 5,215 120 5,211 121 5,220 122 5,217 123 5,213 124 5,217	111	5,214
114 5,214 115 5,211 116 5,215 117 5,218 118 5,217 119 5,215 120 5,211 121 5,220 122 5,217 123 5,213 124 5,217	112	5,218
115 5,211 116 5,215 117 5,218 118 5,217 119 5,215 120 5,211 121 5,220 122 5,217 123 5,213 124 5,217	113	5,213
116 5,215 117 5,218 118 5,217 119 5,215 120 5,211 121 5,220 122 5,217 123 5,213 124 5,217	114	5,214
117 5,218 118 5,217 119 5,215 120 5,211 121 5,220 122 5,217 123 5,213 124 5,217	115	5,211
118 5,217 119 5,215 120 5,211 121 5,220 122 5,217 123 5,213 124 5,217	116	5,215
119 5,215 120 5,211 121 5,220 122 5,217 123 5,213 124 5,217	117	5,218
120 5,211 121 5,220 122 5,217 123 5,213 124 5,217	118	5,217
121 5,220 122 5,217 123 5,213 124 5,217	119	5,215
122 5,217 123 5,213 124 5,217	120	5,211
123 5,213 124 5,217	121	5,220
124 5,217	122	5,217
0,2	123	5,213
405	124	5,217
125 5,214	125	5,214



Section 12 Qualified Laboratory Documentation



Certification date: Expiry date: Certificate number: IATF Certificate number:

17 February 2021 16 February 2024 10336479 0385837

Certificate of Approval

This is to certify that the Management System of:

TE Connectivity Brasil Industria de Eletronicos Ltda.

Rua Ampere, 304 - Campo da Penha, Bragança Paulista, 12900-002, Brazil

has been approved by Lloyd's Register to the following standards:

IATF 16949:2016

Approval number(s): IATF 16949 - 00014928

This certificate is valid only in association with the certificate schedule bearing the same number on which the locations applicable to this approval are listed.

The scope of this approval is applicable to:

Development, Design and Production of Modules and Electronic and Electrical Connection Systems, Sensors, Components Mechatronics, Special Cable Assemblies.



Cliff Muckleroy

Area Operations Manager Americas

Issued by: Lloyd's Register Quality Assurance Limited





Certificate Schedule

Location Activities

Centro de Distribuição

Centro Logístico Zimba, Rodovia Dom Pedro, Km 93,6, Itatiba, 13254741, Brazil

IATF 16949:2016

Receiving, Storage, Packaging and Delivery of Products.







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: 8770263 / 27 Page: 1 / 4

User: Espinoza, Enrique Date: 8/3/21 1:26:53 AM

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 1.2 Product Identification

Name [ID]: Tyco Electronics GAD Part/Item No.: 1241394-1

[913]

DUNS Number: - Description: AMP MCP 2.8K Flat Type

Receptacle

Street/Postal Code: Amperestr. 12-14 Report No.: Nat./ZipCode/City: DE 64625 Bensheim Date of Report: Supplier Code: - Purchase Order No.: -

Contact Person: IMDS Team (India) Bill of Delivery No.:

Engineering Services

- Phone:- Fax No.:- Multi Sourced:No

- E-Mail Address: imds@te.com IMDS ID / Version: 8770263 / 27 Node ID: 986691361

MDS Status (Change Internally released

Date): (01/18/2021)

IMDS ID / Version: 8770263 / 27 Page: 2 / 4

User: Espinoza, Enrique Date: 8/3/21 1:26:53 AM

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.: 1241394-1 Report No.: -

Description: AMP MCP 2.8K Flat Type Receptacle IMDS ID / Version: 8770263 / 27
Node ID: 986691361

Tree Level	Article Name Name	Part/Item No. Item-/MatNo. Material-No.	IMDS ID / Version	Quantity	Weight	Portion	Portion (from - to)	Classif.	Parts Marking Recyclate (Indust./Consumer)
	Substance name	4) CAS No.			[g]	[%]	[%]	SVHC	Application [ID]
1	AMP MCP 2.8K Flat Type	🦸 1241394-1	8770263 / 27		0.5094				
	Receptacle								
<u> </u> -2	Body			1	0.375				
- 3	Copper Nickel		73855529 / 5		0.3683			3 .2	⁵ No
⊢ 4	♠ Copper	4 7440-50-8				94.775		△ D	
	ı	1						1	1



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Tree Level	 ② 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, SVHC	Parts Marking Recyclate (Indust./Consumer) Application [ID]
-4	♠ Nickel	4 7440-02-0				3.2	2.2 - 4.2	△ D	Not applicable [34]
-4	♠ Cobalt	4 7440-48-4				0.2	0 - 0.4	△ D	
- 4	♠ Silicon	4 7440-21-3				0.725	0.25 - 1.2		
-4	♠ Iron	4 7439-89-6				0.1	0 - 0.2		
-4	Magnesium (metal)	4 7439-95-4				0.175	0.05 - 0.3	△ D	
-4	♠ Manganese	4 7439-96-5				0.05	0 - 0.1		
-4	♠ Lead	4 7439-92-1				0.025	0 - 0.05	♣ D / P / SVHC	♠ Concentration within acceptable GADSL limits [44]
-4		4 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		0.0067			% 4.2	No No
-4	4 Carbon	4 7440-44-0				0.505	0.01 - 1		
- 4	♠ Sulphur	3 7704-34-9				0.02	0 - 0.04		
- 4	♠ Lead	4 7439-92-1				0.05	0 - 0.1	♠D/P/ SVHC	♠ Concentration within acceptable GADSL limits [44]
-4	△ Tin	4 7440-31-5				99.425			
-2	Spring For AMP MCP 2.8K	0 -1241385-1	3520662 / 15	1	0.1344				
- 3	3 X10CrNi18-8		36413360 / 6		0.1344			1.1.2	№ No
-4	♠ Carbon	4 7440-44-0				0.1	0.05 - 0.15		
-4	♠ Chromium	4 7440-47-3				17.5	16 - 19		

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Tree Level	Description Article Name Name		IMDS ID / Version	Quantity	Weight	Portion	Portion (from - to)	Classif.	Parts Marking Recyclate (Indust./Consumer)
	Substance name	🔷 CAS No.			[g]	[%]	[%]	SVHC	Application [ID]
-4	Manganese	4 7439-96-5				1	0 - 2		
-4	Nitrogen	4 7727-37-9				0.05	0 - 0.1		
- 4	♠ Nickel	4 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	4 7723-14-0				0.0225	0 - 0.045		
-4	Sulphur	4 7704-34-9				0.0075	0 - 0.015		
-4	♠ Silicon	4 7440-21-3				1	0 - 2		
-4	♠ Iron	4 7439-89-6				71.67			
- 4	Copper	4 7440-50-8				0.5	0 - 1	♠ D	
-4	Molybdenum	4 7439-98-7				0.4	0 - 0.8		

Legend

Multi Sourced Component





Section 18 Part Submission Warrant

Part Submission Warrant

EPPAP:

Shown on Dreawing Number Engineering Change Level Additional Engineering Changes Dated Additional Engineering Changes Dated Charling Add Number Checking Add Number Checking Add Single-Level Dated CHARLING MANUFACTURING INFORMATION CUSTOMER SUBMITTAL INFORMATION MATERIALS REPORTING MATERI	Part Name	Cust. Part Number								
Safety and/or Government Regulation Yes No Purchase Order No. Weight (kg) Checking Aut Number Checking Aut Sumber Sumbitted Sumbitted Sumber Sumbitted Sumbitted Sumber Sumbitted										
Safety and/or Government Regulation Yes No Purchase Order No. Weight (kg) Checking Ad Number Checking Ad Engineering Change Level	Engineering Change Level	Dated								
Checking Aid Number	Additional Engineering Changes	Dated								
Organization Name and Supplier Code Customer Name/Division Street Address Buyer/Buyer Code City Region Postal Code Country Application MATERIALS REPORTING Has customer-required Subtance of Concern information been reported Submitted by IMDS or other customer format Are polyment-parts identified with appropriate ISO marking codes? Are polyment-parts identified with appropriate ISO marking codes? Are polyment parts identified with appropriate ISO marking codes? Are polyment parts identified with appropriate ISO marking codes? Are polyment parts identified with appropriate ISO marking codes? Are polyment parts identified with appropriate ISO marking codes? Are polyment parts identified with appropriate ISO marking codes? Are polyment parts identified to include ISO marking codes? Are polyment parts identified to include ISO Marking codes? Are polyment parts identified to include ISO Marking codes? Are polyment parts identified to include ISO Marking codes? Are polyment parts included ISO Marking Codes? Are p	Safety and/or Government Regulation Yes No	Purchase Order No Weight (kg)								
Street Address	Checking Aid Number Checking Aid Engineering	g Change Level Dated								
Street Address Buyer/Buyer Code	ORGANIZATION MANUFACTURING INFORMATION	CUSTOMER SUBMITTAL INFORMATION								
City Region Postal Code Country Application MATERIALS REPORTING Has customer-required Substance of Concern Information been reported Submitted by IMDS or other customer format Are polymeric parts identified with appropriate ISO marking codes? Yes No NA REASON FOR SUBMISSION (Cince at least one) Initial submission Engineering Change to Optional Construction or Material Sub-Supplier or Material Source Change Change to Optional Construction or Material Sub-Supplier or Material Source Change Change in Part Processing Correction of Discrepancy Tooling Inactive > than 1 year Correction of Discrepancy Tooling Inactive > than 1 year REQUESTED SUBMISSION LEVEL (Check one) Level 1 - Warrant with product samples and complete supporting data submitted to customer. Level 2 - Warrant with product samples and complete supporting data submitted to customer. Level 4 - Warrant and other requirements as defined by customer. Level 4 - Warrant and other requirements as defined by customer. Level 5 - Warrant with product samples and complete supporting data submitted to customer. Level 6 - Warrant with product samples and complete supporting data submitted to customer. Level 7 - Warrant with product samples and complete supporting data submitted to customer. Level 8 - Warrant with product samples and complete supporting data submitted to customer. Level 9 - Warrant with product samples and complete supporting data submitted to customer. Level 9 - Warrant with product samples and complete supporting data submitted to customer. Level 9 - Warrant with product samples and complete supporting data submitted to customer. Level 9 - 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) Mod (Cavly Production Process DECLIARATION In this time of the production	Organization Name and Supplier Code	Customer Name/Division								
MATERIALS REPORTING Has customer-required Substance of Concern information been reported Submitted by IMDS or other customer format Are polymeric parts identified with appropriate ISO marking codes? Are polymeric parts identified with appropriate ISO marking codes? Are polymeric parts identified with appropriate ISO marking codes? Are polymeric parts identified with appropriate ISO marking codes? Are polymeric parts identified with appropriate ISO marking codes? Are polymeric parts identified with appropriate ISO marking codes? Are polymeric parts identified with appropriate ISO marking codes? Are polymeric parts identified with appropriate ISO marking codes? Are polymeric parts identified with appropriate ISO marking codes? Are polymeric parts identified with appropriate ISO marking codes? Are polymeric parts identified with appropriate ISO marking codes? Are polymeric parts identified with appropriate ISO marking codes? Are polymeric parts identified with appropriate ISO marking codes? Are polymeric parts identified with appropriate ISO marking codes? Are polymeric parts identified with appropriate ISO marking codes? Are polymeric parts identified with appropriate ISO marking codes? Are parts and appropriate Intelligence Intell	Street Address	Buyer/Buyer Code								
Are polymeric parts identified with appropriate ISO marking codes? Are polymeric parts identified with appropriate ISO marking codes? Are polymeric parts identified with appropriate ISO marking codes? Are polymeric parts identified with appropriate ISO marking codes? Are polymeric parts identified with appropriate ISO marking codes? Fooling: Transfer, Replacement, Refurbishment, or additional Engineering Change to Optional Construction or Material Source Change In Part Processing Tooling: Transfer, Replacement, Refurbishment, or additional Consection of Discrepancy Tooling Intartive > than 1 year 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 inmited supporting data submitted to customer. Level 3 - Warrant with product samples and complete supporting data submitted to 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) Model (Zewly Production Process DECLARATION Islam that the samples represented by this warrant are representatilive of our parts, which were made by a process that meets all Production Process DECLARATION and the Califor Requirements. I further affirm that these samples were produced at the 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 devisitors from this declaration below. EXPLANATION/COMMENTS FOR CUSTOMER USE ONLY (IF APPLICABLE) Print Name Phone No. Paproved Rejected Other Print Name Approved Rejected Other Process Space Spa	City Region Postal Code Country	Application								
Initial submission Initial submission Initial submission Engineering Change(s) Tooling: Transfer, Replacement, Refurbishment, or additional Correction of Discrepancy Tooling Inactive > than 1 year 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 complete 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 DECLARATION Islam 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 Is each Customer Tool properly tagged and numbered? Yes No NA Organization Authorized Signature Phone No. Fax Title Email FOR CUSTOMER USE ONLY (IF APPLICABLE) PPAP Warrant Disposition: Approved Rejected Other Customer Signature Date Date	Has customer-required Substance of Concern information been reported	Yes No NA								
Level 1 - Warrant only (and for designated appearance items, an Appearance Approval Report) submitted to customer. Level 2 - Warrant with product samples and complete supporting data submitted to customer. Level 3 - Warrant with product samples and complete supporting data submitted to 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 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. If urther 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 Is each Customer Tool properly tagged and numbered? Yes No NA Organization Authorized Signature Exuring Espianoza Date Print Name Phone No. Fax Title Email FOR CUSTOMER USE ONLY (IF APPLICABLE) PPAP Warrant Disposition: Approved Rejected Other Customer Signature Date	REASON FOR SUBMISSION (Check at least one) Initial submission Engineering Change(s) Tooling: Transfer, Replacement, Refurbishment, or additional Correction of Discrepancy	Change to Optional Construction or Material Sub-Supplier or Material Source Change Change in Part Processing Parts Produced at Additional Location								
Is each Customer Tool properly tagged and numbered? Yes No NA Organization Authorized Signature Emrique Espinoza Print Name Phone No. Fax Title Email FOR CUSTOMER USE ONLY (IF APPLICABLE) PPAP Warrant Disposition: Approved Rejected Other Customer Signature Date	Level 1 - Warrant only (and for designated appearance items, an Appearance Approval Report) submitted to customer. Level 2 - Warrant with product samples and complete 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 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.									
Organization Authorized Signature Print Name	EXPLANATION/COMMENTS									
Print Name Phone No Fax										
FOR CUSTOMER USE ONLY (IF APPLICABLE) PPAP Warrant Disposition : Approved Rejected Other Customer Signature Date	Organization Authorized Signature Eurique Est	Date								
FOR CUSTOMER USE ONLY (IF APPLICABLE) PPAP Warrant Disposition : Approved Rejected Other Customer Signature	Print Name Phone No	Fax								
PPAP Warrant Disposition : Approved Rejected Other	Title Email									
Print Name Customer Tracking Number (optional)	Customer Signature	Date								
	Print Name	Customer Tracking Number (optional)								



Section 18a **Bulk Material Requirements**



Not Applicable