

Table of Contents

PPAP Package for:

Nursan Otomotiv Ltd.
Customer Part Number: 1924275-4
(TE Connectivity Part Number): 1924275-4
14-Jan-2020

Section A	Nondisclosure Agreement
Section # 1	Design Records
Section # 2	Engineering Change Documents
Section #3	Customer Engineering Approval
Section # 4	Design FMEA
Section # 5	Process Flow Diagrams
Section # 6	Process FMEA
Section # 7	Control Plan
Section #8	Measurement Systems Analysis Studies
Section # 9	<u>Dimensional</u> <u>Results</u>
Section # 10	Material, Performance Test Results
Section # 11	Initial Process Study
Section # 12	Qualified Laboratory Documentation
Section # 13	Appearance Approval Report
Section # 14	Sample Product
Section # 15	Master Sample
Section # 16	Checking Aids
Section # 17	Records Of Compliance With Customer-Specific Requirements
Section # 18	Part Submission Warrant
Section # 18a	Bulk Material Requirements



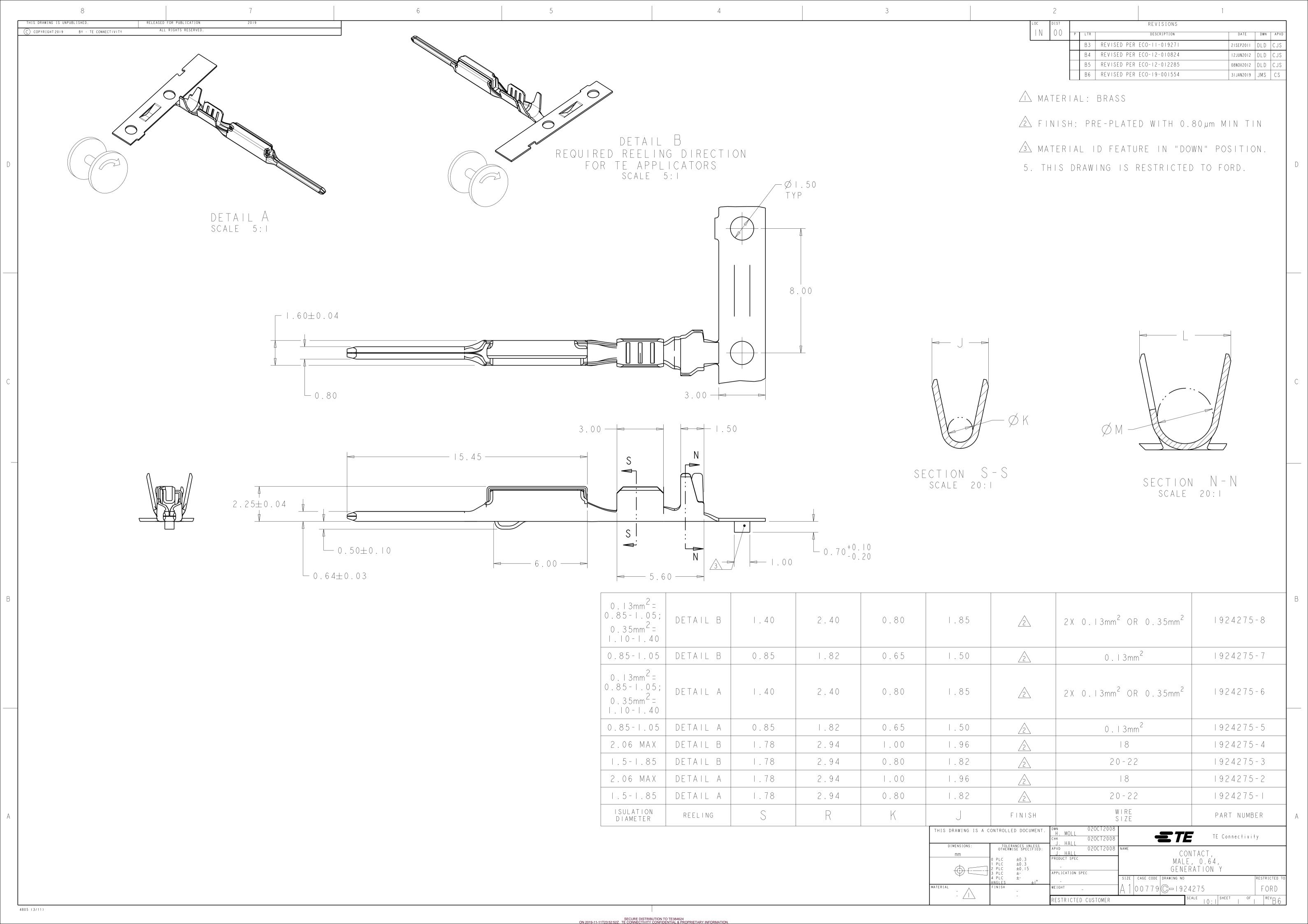
Nondisclosure Agreement

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



Not Applicable



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

In lieu of an annual dimensional inspection to the TE Connectivity customer drawing, we are submitting the date for the latest inspection conducted per the applicable TE Connectivity, Quality Inspection Plan. The TE Connectivity, Quality Inspection plan includes all material, dimensional, and functional tests deemed necessary by the TE Connectivity manufacturing facility to ensure part performance.

The TE Connectivity, Quality Inspection Plan reflects the requirements of internal manufacturing documents and drawings, as such the results are deemed to be proprietary information.

The date below reflects the most current inspection completed of TE US stock per the applicable TE Connectivity, Quality Inspection Plan.

Current Quality Inspection Plan Date 14.01.2020

NO CHANGE OF FIT/FORM/FUNCTION

Production Part Approval Dimensional Test Results

DAIMLER CHRYSLER Ford GM

1924275-2/-4 ORGANIZATION: TE Connectivity (Ford p/n: 9U5T-14421-CA) Contact, Male, 0.64mm, Generation Y SUPPLIER / VENDOR CODE PART NAME: INSPECTION FACILITY: TE Connectivity DESIGN RECORD CHANGE LEVEL: B5 Winston-Salem, NC ENGINEERING CHANGE DOCUMENTS: ORGANIZATION MEASUREMENT RESULTS (DATA) SPECIFICATION / QTY. NOT ITEM DIMENSION / SPECIFICATION TEST DATE OK LIMITS TESTED OK Out 1 1.50 0.15 1.5250 1.5360 ✓ 1 4/10/2018 8.0000 2 8.00 0.15 8.0000 4/10/2018 2 3.00 0.15 4/10/2018 2.9380 2.9680 ✓ 4 2 1.60 0.04 1.6130 1.6020 4/10/2018 5 0.80 0.15 4/10/2018 2 0.9490 0.9300 6 7 2.2470 ✓ 2.25 0.04 4/10/2018 2 2.2630 **√** 2 0.64 0.03 4/10/2018 0.6250 0.6390 8 0.50 0.10 4/10/2018 2 0.4690 0.5010 ✓ 0.15 9 15.45 4/10/2018 2 15.4770 15.5610 **√** 10 6.00 0.15 4/10/2018 6.0190 6.0980 11 3.00 0.15 4/10/2018 2 3.0240 2.9970 ✓ **√** 12 5.60 0.15 4/10/2018 2 5.5930 5.5850 13 1.50 0.15 4/10/2018 2 1.4630 1.4170 **√** 14 1.00 0.15 2 1.0030 0.9940 ✓ 4/10/2018 ✓ 15 0.70 0.10 4/10/2018 2 0.5750 0.5750 1.9930 ✓ 16 1.85 0.15 2 2.0210 4/10/2018 **√** 17 0.80 0.15 4/10/2018 2 0.9650 0.9640 18 1.40 0.15 2 1.9040 1.8170 ✓ 4/10/2018 19 4/10/2018 2.9800 2.9790 2.40 0.15 2

Christopher Schmid

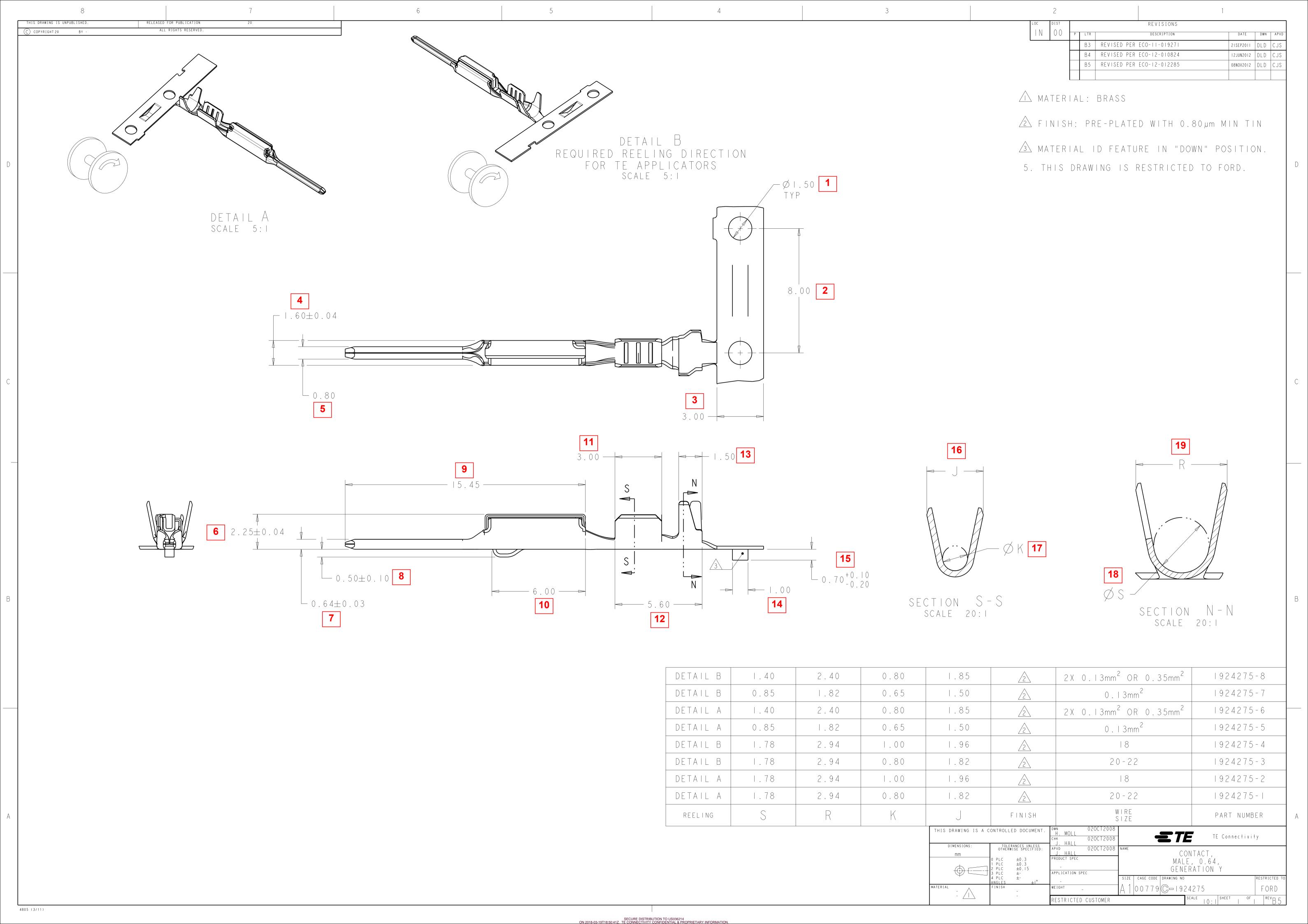
Blanket statements of conformance are unacceptable for any test results.

SIGNATURE

DATE

Prod Engr

4/10/2018





Section 10 Material, Performance Test Results



An ISO Registered Company

1351 S. Girls School Road Indianapolis, IN 46231 Tel: 317-241-7600

DUNS: 83-296-2588

Order Number Date Tested Job Number 50432-0000 ABI00950 3/2 41-77797 8/20/2019

Customer PO# **Customer PN** Size Alloy

.0078 X 1.180 260

8-702482-1

1400-439945

015191

TE CONNECTIVITY

GREENSBORO

NC

013191								
		PROPERTIE	S AND TES	TING		9 TV TE 15 1		
Trace#	Plating Material		Units	Platin Min	g Specs Max	Actu Min	ıal Data Max	Pb PPM in Deposit
120997b 11	Copper	0	 μin	40	<u>'</u>	50	50	
	Reflow Tin	Ō	un .	32	59	51	52	58.43
120997B 111	L Copper	0	μin	40		50	60	
	Reflow Tin	0	µin	32	59	355 - V	37 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	58.43
120997В 112	2 Copper	0	μin	40		50	50	20 Tomorrow Control of
	Reflow Tip	0	The second secon	32	59	44	46	_58.43
420997B 113	3 Copper	0	μin	40		50	60	
	Reflow Tin	0	μln	32 Variety of the control of the con	59	46	49	58.43
420997B 114	4 Copper	0	μin	40		50	50	
	Reflow Tin	0	μin	32	59	54	59	58.43
420997B 11	8 Copper	0	μin	40		40	40	
	Reflow Tin	0	μin	32	59	45	-59	58.43

	PROPERTIES AND TESTING								
Plating Material		Unita					Pb PPM		
Copper	0		L	i Iviax			Deposit		
		F	40		30	50			
Reflow Tin	0	μin	32	59	44	51	58.43		
Copper	0	μin	40		50	50			
Reflow Tin	0	\ μin	32	59	57	58	58.43		
Copper	0	μin	40	<u> 1984년 - 한국</u>	40	40			
Reflow Tin	0	uin	32	59	48	50	58.43		
Copper	0	<u>μin</u>	40	THE LEVY	50	50			
Reflow Tin	0	μin	32	59	49	50	58.43		
Copper	0	μin	40	<u> 1. j. j. j. j. j. j.</u>	50	50			
Reflow Tin	.0	μin	32	59	41	44	58.43		
Copper	0	μin	40		40	50			
Reflow Tin	0	μin	32	.59	- 41	. 45	58.43		
Copper	0	μin	40	<u> Navada i produce</u>	50	50			
Reflow Tin	0 50	μin	32	59	43	49	58.43		
Copper	0	μin	40	<u> </u>	<u>ad a et al t</u> 50	<u> 1900-1919-1919</u> 50	<u> </u>		
Reflow Tin	O	μh	32	59 - 4	i6	47	- 58.43		
	Material Copper Reflow Tin Copper	Plating Material Copper 0 Reflow Tin 0 Copper 0 Reflow Tin 0 Reflow Tin 0 Copper 0	Plating Material Units Copper 0 μin Reflow Tin 0 μin Copper 0 μin Reflow Tin 0 μin Reflow Tin 0 μin Reflow Tin 0 μin Copper 0 μin Reflow Tin 0 μin Copper 0 μin Reflow Tin 0 μin Copper 0 μin Reflow Tin 0 μin Reflow Tin 0 μin Copper 0 μin Copper 0 μin	Plating Material Units Platin Min Copper 0 μin 40 Reflow Tin 0 μin 32 Copper 0 μin 40 Reflow Tin 0 μin 40 Reflow Tin 0 μin 32 Copper 0 μin 40 Reflow Tin 0 μin 32	Plating Material	Plating Material Units Max Plating Specs Min Max Min Act Min Max Min Copper 0 μin 40 50 Reflow Tin 0 μin 32 59 44 Copper 0 μin 40 50 Reflow Tin 0 μin 32 59 57 Copper 0 μin 32 59 48 Copper 0 μin 32 59 48 Copper 0 μin 40 50 Reflow Tin 0 μin 32 59 49 Copper 0 μin 32 59 41 Copper 0 μin 32 59 41 Copper 0 μin 40 50 Reflow Tin 0 μin 40 50 Reflow Tin 0 μin 40 50 Reflow Tin 0 μin 40 50	Plating Material Units Min Max Min Min		

			PROPERTIES AND TESTING							
		Plating Material		Units	Platin Min	g Specs Max	Actu Min	al Data	Pb PPM in Deposit	
Trace	_	Copper	0	μin	40	<u>, </u>	50	50		
		Reflow Tin	0	μn	32	59	55	55	58.43	
21490A	2 11	Copper	0	μin	40		40	40		
		ReflowTin	0	μin	32	5 9	35	38	58,43	
121490a	2 13	Copper	0	<u>μin</u>	40		50	50	<u> </u>	
		Reflow Lin	0	μin	32	59	50	59	58.43	
421490a	2 18	Copper	0	μin	40		50	50		
		Reflow Tin	0	μin	32	_59	38	45	58.43	
421490A	2 2	Copper	0	μin	40	<u></u>	50	50		
		Reflow Tin	0	μin	32	-59	53	56	58.43	
421490A	24	Copper	0	μin	40		50	50		
		Reflow Tin	0-	μin	32	59	48	49	58.43	
421490A	26	Copper	0	μin	40	्ष्या <u>। व्याप्त</u> ्या स्थापना स्थ	50	50	The same of the sa	
		Reflow Tin	0	<u> </u>	32	59	55 	56	58.43	
421490A	28	Copper	0	μin	40		50	50	- Norman , 5 1 - 1 1 1 1 1 1 1 1 1 1 1 - 1 1 1 1 1 1 1 1 1 1 1 - 1 1 1 1 1 1 1 1 1 1 1 - 1 1 1 1 1 1 1 1 1 1 1 - 1 1 1 1 1 1 1 1 1 1 1 - 1 1 1 1 1 1 1 1 1 1 1 - 1 1 1 1 1 1 1 1 1 1 1 - 1 1 1 1 1 1 1 1 1 1 1 - 1 1 1 1 1 1 1 1 1 1 1 - 1 1 1 1 1 1 1 1 1 1 1 - 1	
		Reflow I in	0	μin	32	59	47	49	58.43	

		PROPERTIES AND TES	STING		
	Plating		Plating Specs	Actual Data	Pb PPM in
Trace#	Material	Units	Min Max	Min Max	Deposit

- 1 Plating thickness per ASTM B568
- 2 Solderability Test per ASTM B678 Pass/Fail for those products requiring solderability testing.
- 3 Adhesion Test per ASTM B571 Performed on all plated product and rejected if test failed.

We hereby certify that the material described in this report has been tested and the results are shown about
--

Quality Manager: Amy Schultz



Initial Process Studies

There are no requirements for process capability data listed on the applicable Tyco Electronics customer drawing.

No agreement for providing process capability study information, to customer drawing requirements has been agreed to by Tyco Electronics.

Process capability study data, to a Tyco Electronics customer drawing dimension is not currently available from the manufacturing facility and as such will not be provided with this PPAP submission.



Section 12 Qualified Laboratory Documentation





Certificate of Registration

QUALITY MANAGEMENT SYSTEM - IATF 16949:2016

This is to certify that: TE Connectivity

Global Automotive Division

Americas North 719 Pegg Road Greensboro North Carolina 27409

USA

operates a Quality Management System which complies with the requirements of IATF 16949:2016 for the following scope:

Design and manufacture of electrical interconnecting devices.

For and on behalf of BSI:

Carlos Pitang Assurance - Americas

BSI Certificate Number: 514458-007

IATF Number: 0338830

Page: 1 of 3





Certification Date: 2018-10-18 Latest Issue: 2018-10-18 ...making excellence a habit." Expiry Date: 2021-10-17

This certificate remains the property of BSI and shall be returned immediately upon request. An electronic certificate can be authenticated online. Printed copies can be validated at www.bsigroup.com/ClientDirectory

To be read in conjunction with the scope above or the attached appendix.

Further darifications regarding the scope of this certificate and the applicability of IATF 16949 requirements may be obtained by consulting the organization. IATF Contracted Office: BSI Assurance UK Limited, registered in England under number 7805321 at 389 Chiswick High Road, London W4 4AL, UK.

Americas Headquarters: BSI Group America Inc., 12950 Worldgate Drive, Suite 800, Herndon, VA 20170-6007 USA A Member of the BSI Group of Companies.

Location

TE Connectivity Global Automotive Division Americas North 719 Pegg Road Greensboro North Carolina 27409 USA

Registered Activities

Design and manufacture of electrical interconnecting devices.

Including the following remote support functions:

TE Connectivity
Global Automotive Division
Americas North
3800 Reidsville Road
Winston-Salem
North Carolina
27102
USA
Supplier management, Sales, Testing, Product design

TE Connectivity
Global Automotive Division
Americas North
20 Esna Park Drive
Markham
Ontario
L3R 1E1
Canada
Testing, Product design

TE Connectivity
Global Automotive Division
Americas North
1901 Fulling Mill Road
Middletown
Pennsylvania
17057
USA
Customer service, Testing, Product design

TE Connectivity
Global Automotive Division
Americas North
900 Wilshire Boulevard
Suite 150
Troy
Michigan
48084
USA
Product design

BSI Certificate Number: 514458-007

IATF Number: 0338830





Page: 2 of 3

This certificate remains the property of BSI and shall be returned immediately upon request. An electronic certificate can be authenticated online. Printed copies can be validated at www.bsigroup.com/ClientDirectory. To be read in conjunction with the scope above or the attached appendix.

Further darifications regarding the scope of this certificate and the applicability of IATF 16949 requirements may be obtained by consulting the organization.

IATF Contracted Office: BSI Assurance UK Limited, registered in England under number 7805321 at 389 Chiswick High Road, London W4 4AL, UK.

Americas Headquarters: BSI Group America Inc., 12950 Worldgate Drive, Suite 800, Herndon, VA 20170-6007 USA A Member of the BSI Group of Companies.

Registered Activities

TE Connectivity
North Carolina Distribution Center
8000 Piedmont Triad Parkway
Greensboro
North Carolina
27409
USA
Warehousing

TE Connectivity
Global Automotive Division
Americas North
2100 Paxton Street
Harrisburg
Pennsylvania
17111
USA
Testing

TE Connectivity 3900 Reidsville Road Winston Salem North Carolina 27101 USA Testing

TE Connectivity 3920 Reidsville Road Winston Salem North Carolina 27101 USA Testing

Including the following extended manufacturing sites:

TE Connectivity
Global Automotive Division
Americas North
233 Burgess Road
Greensboro
North Carolina
27409
USA

Design and manufacture of electrical interconnecting devices

BSI Certificate Number: 514458-007

IATF Number: 0338830





Page: 3 of 3

This certificate remains the property of BSI and shall be returned immediately upon request. An electronic certificate can be authenticated online. Printed copies can be validated at www.bsigroup.com/ClientDirectory To be read in conjunction with the scope above or the attached appendix.

Further darifications regarding the scope of this certificate and the applicability of IATF 16949 requirements may be obtained by consulting the organization. IATF Contracted Office: BSI Assurance UK Limited, registered in England under number 7805321 at 389 Chiswick High Road, London W4 4AL, UK.



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

Jimenez, Pablo 🔱

Tyco Electronics GAD [913]

MDS Functions Administration Help





















MDS/Module Search

Ingredients

Supplier Data



Name Contact, Male, Generation Y, 0.64 ID version 86857344 / 5 Node ID 775382103 Status Internally released

Recipient data

Analysis

MDS Request

Send

Propose

Release Internal

11 Nursan Kablo Donanimlari Sa **☆** TIANHAI SYRACUSE AUTOMOTI Yazaki India Pvt.Ltd [22750] acc

Transfer Information

Company Nursan Kablo Donanimlari San. ve Tic. A.S. [126376]

Organisation unit -

Recip. Status accepted

Supplier Code - (?)

Name Contact, Male, Generation Y, 0.64

Part/Item No. 1924275-4

Legacy Spare Part No

Transmission/Check Date 1/13/2020

Forwarding allowed Yes

Drawing

Drawing No. -

Drawing dated -

Drawing Change Level -

Purchase Order

Purchase Order No. -

Bill of Delivery No. -

Report

Report No. -

Date of Report -

This Module/MDS cannot be edited, because it is a full version (5).

1/1



Section 18 Part Submission Warrant

Part Submission Warrant

EPPAP:

Part Name				Cust. Par	Number		
Shown on Drawing Number				Org.Par	Number		
Engineering Change Level				_	Dated		
Additional Engineering Changes				_	Dated		
Safety and/or Government Regulation	Yes	No	Purchase	e Order No.		Weight (kg)_	
Checking Aid Number	Checking Aid E	ngineering Ch	nange Level			Dated	
ORGANIZATION MANUFACTURING INFO	DRMATION		cus	TOMER S	UBMITTAL INFO	ORMATION	
Organization Name and Supplier Code		_	Custo	omer Name/	Division		
Street Address		_	Buye	r/Buyer Cod	le		
City Region Posta	I Code Counti	ry	Applie	cation			
MATERIALS REPORTING Has customer-required Substance of Concern inf Submitted by IMDS or					Yes	No	NA
Are polymeric parts identified with appropriate IS REASON FOR SUBMISSION (Check at least or Initial submission Engineering Change(s) Tooling: Transfer, Replacement, Refurbit Correction of Discrepancy Tooling Inactive > than 1 year	ne)				Sub-Supplier or M Change in Part Pr	Additional Location	nge
REQUESTED SUBMISSION LEVEL (Check on Level 1 - Warrant only (and for designat Level 2 - Warrant with product samples Level 3 - Warrant with product samples Level 4 - Warrant and other requirement Level 5 - Warrant with product samples SUBMISSION RESULTS The results for dimensional measurer These results meet all design record requirement Mold / Cavity / Production Process DECLARATION I affirm that the samples represented by this warrant	ed appearance items, and limited supporting and complete supporting as as defined by custor and complete supporting them to the service of th	data submitting data subm mer. ing data revie ial and functions No	ed to custom nitted to cust wed at supp onal tests o (If "No"	ner. omer. lier's manuf appe - Explanation	acturing location. arance criteria on Required) s that meets all Proc	statistical proce	ess package
Approval Process Manual 4th Edition Requirements I also certify that documented evidence of such com EXPLANATION/COMMENTS		•				-	
Is each Customer Tool properly tagged and numl	pered?	Ye	es	No	NA		
Organization Authorized Signature		Guiller				Date	
				U			
Print Name		Phone No			_ Fax_		
	FOR CUSTOMI	ER USE ONL	Y (IF APPLI	ICABLE)			
Customer Signature						Date	
Print Name		Cı	ustomer Trad	cking Numb	er (optional)		



Section 18a **Bulk Material Requirements**



Not Applicable