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PPAP Package for:

Newark Electronics Customer Part Number: 82Y8193 (TE Connectivity Part Number): 2035363-4 Nov-2020

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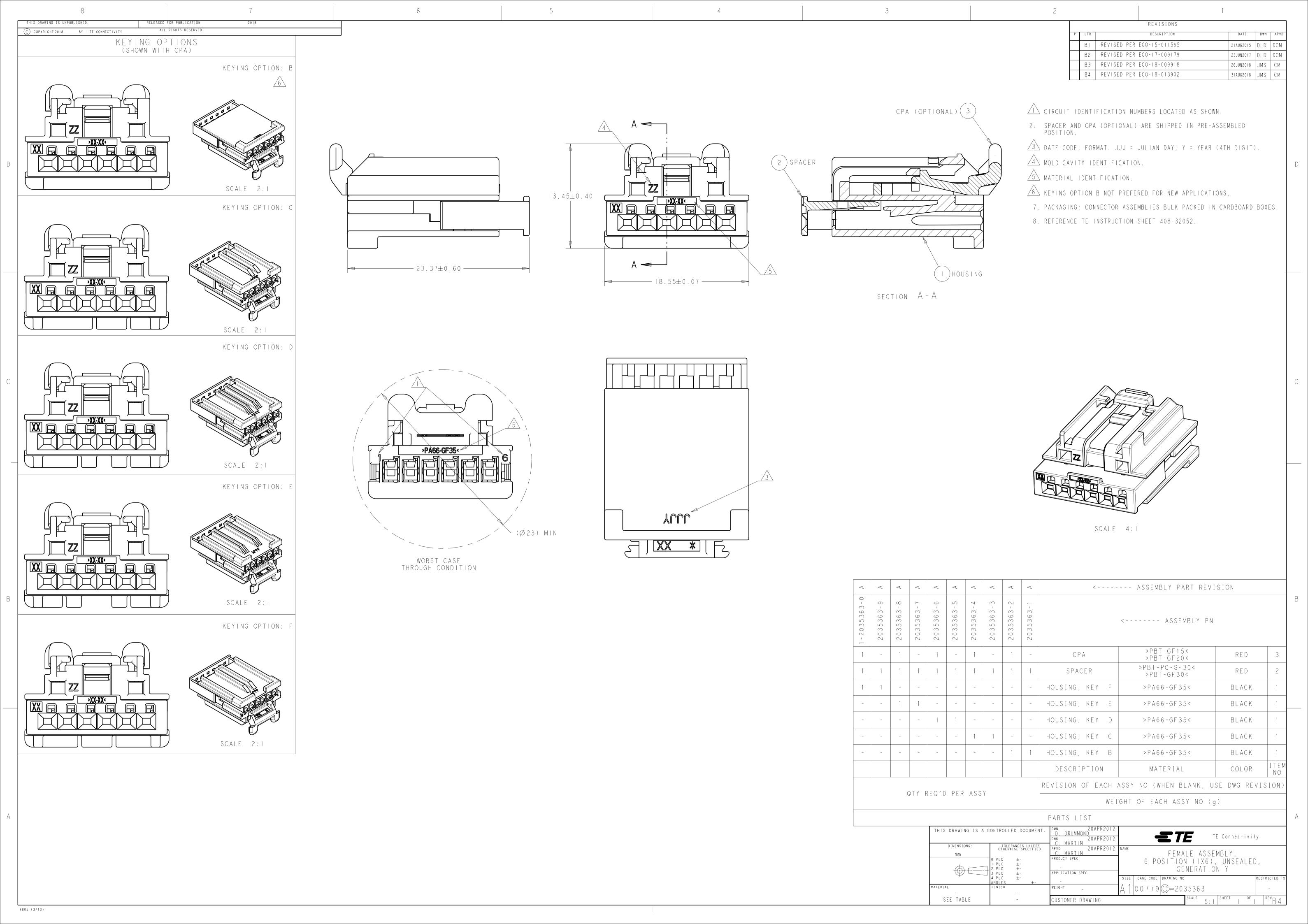
Nondisclosure Agreement

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 Nofic aon Current Date: 01-Oct-2020

TE Connecvity

Product Change Nofic aon: P-20-019613 PCN Date: 23-SEP-20

TE would like to inform you of the following change(s) to the listed TE Connecvity Pr oduct. In case of any further quesons about this chang e(s), please contact your TE Connecvity Sales Engineer . Affected part, drawing and/or specificaon number s are listed on the a ached sheet(s).

General Product Descripon:	
6 POSITION (1X6), FEMALE HOUSING, UNSEALED, GENERATION Y	

Descripon of Chang es
New capacity mold for the 1x6 GEN Y housing 2035362-X. New mold is idence all to original mold. No change to form, fit, nor funcon.

Reason for Changes:										
Product improvement. Increase molding capacity for the	housing to meet demand requirements.									
Esma ted Dates:										
Last Order Date (Obsolete Parts Only):	First Date To Ship (Changed Parts Only):									
	17-NOV-2020									
Last Ship Date (Obsolete Parts Only):	Last Date for Mixed Shipments: (Changed Parts Only):									
	No Mixed Shipments									

Part Number(s) being Modified:

Part Number	Part Disconnued per PCN	Customer Drawing	Alias Part Number(s)	Substut e Part Number	Substut e Alias Part Number(s)	Descripon Of Difference
1-2035363-0	NO					
2035363-1	NO					
2035363-2	NO					
2035363-3	NO					
2035363-4	NO					
<u>2035363-5</u>	NO					
<u>2035363-6</u>	NO					
2035363-7	NO					
<u>2035363-8</u>	NO					



Section 3 Customer Engineering Approval

Ford	ENGINEERING SAMPLE	E EVALUATION R	EPORT	
PART NAME: SLV WIR CONN - FEM		PART NO: DU5T-14489-LA DU5T-14489-MA DU5T-14489-SA DU5T-14489-NA DU5T-14489-TA DU5T-14489-PA DU5T-14489-RA CHANGE TYPE	2035363-1 2035363-3 2035363-4 2035363-5 2035363-6 2035363-7 2035363-9	
SUBMITTED BY: Craig Martin Generation Y 1x6 Unsealed Connector Assembly	CURRENT MANUFACTURING SITE: TE Empalme Mexico FUTURE MANUFACTURING SITE: TE Empalme Mexico	TOOL MOVE: PROCESS CHANGE: MATERIAL/MATERIAL SUPPLII CAPACITY TOOL: DATE SUBMITTED:		X MADE TO DRAWING DATED:
SUPPLIER: TE Connectivity CHANGE DETAILS:		17Nov2020		DU5T-14489-LA 101222
TE PN X-2035363-X Connector Assembly, Female, 6 Position Unsea Release housing capacity mold 1949869. Capa		mpalme Mexico molding facil	ity.	
REJECTED:	EERING SIGNATURE*: Gregory D Leece (Nov 18, 2020 20:01 ES	т)		DATE: NOV 18, 2020
*By signing this document, you state that	TH VREMARKS AFFECTING PRODUCT ENC at you have verified the physical part/s with the dra			s and appearance.

TE Connectivity	Product Va	lidation Plan and Repor	DVP&R Numbe 1949869_1X		Dept# 7294	ntomotive Division, s North		
				Plan Date	8/7/2020	Plan Originator	Craig Mar	
Component		TE P/N	UPG Number	Concurrence		Customer A	pproval	
1X6 Generation	Y Female Assy	X-2035363-X		Gregory D Leece (Nov 1				Nov 18, 2020
Model Year App	ications	Controlling Document	3	Source		Report Date		Reporting Engineer
		USCAR-2 Rev. 6		TE Cor	nnectivity	11/1	7/2020	Craig Martin

PROCEDURE	TEST DESCRIPTION	ACCEPTANCE CRITERIA	TARGET REQUIREMENTS	TEST STAGE	SAMPLE TYPE	SAMPLES TESTED	ACTUAL RESULTS	NOTES
Specify the governing Test Procedure or Standard.	Provide a brief description of each test.	Specify test targets and/or pass/fail criteria. e.g. cycles, miles, volts, minimum value, no. failure, etc.	Acceptance Level	ED = engineering development DV = design verification PV = Production validation CC = continuing conformance	A = prototype (hand made) B = prototype (tooled) C = program level D = initial production E = full volume production	List quantity tested, sample type, and design phase, e.g., I, II, etc.	Actual Test Results	Describe or elaborate on unique criteria, results, etc.

1X6	IX6 TEST PLAN												RT	
Item No.	Procedure Or Standard	Test Description	Acceptance Criteria	Target Requir- ments	Test Respon- sibility	Test Stage	Sam	nple	Tin	ning	Sam	ples Tested	Actual Results	NOTES
							Qty	Type	Start	Compl	Qty	Type Phas	se	
			START	of Co	NNECT	OR S	YST	EM -	– МЕСН	ANICAL '	TEST	S		
1	USCAR	Terminal - Connector	Insertion Force											
	5.4.1	Test # 20201343												
1a	USCAR 5.1.8	Visual Inspection	No visual damage to sample	No defects	TE	PV	48	Е	10/23/20	10/27/11	48	Е	Pass	8 Female Assemblies for 18 AWG 8 Female Assemblies for 26 AWG
1b	USCAR 5.4.1	Insertion Force TPA in preset position	30N Max Terminal Insertion	No failures	TE	PV	24	E	10/23/20	10/27/11	24	Е	18 AWG 7.30 N Min 15.98 N Max	Test each circuit cavity at least once.
							24				24		26 AWG 1.20 N Min 1.89 N Max Pass	
1c	USCAR 5.1.8	Visual Inspection	No visual damage to sample	No Defects	TE	PV	48	Е	10/23/20	10/27/11	48	Е	Pass	

1X6 Generation Y Plug Assembly Page 1 of 4

1X6	TEST P	LAN									TES	T RE	POR	RT	
Item No.	Procedure Or Standard	Test Description	Acceptance Criteria	Target Requir- ments	Test Respon- sibility	Test Stage	San	nple	Tir	ning	San	nples Test	ted	Actual Results	NOTES
					,		Qty	Type	Start	Compl	Qty	Type 1	Phase		
2	USCAR 5.4.1	Terminal - Connector Test # 20201343	Extraction Force												
2a	USCAR 5.1.8	Visual Inspection	No visual damage to sample	Defects	TE	PV	48	Е	10/23/20	10/27/11	48	Е		Pass	8 Female Assemblies using 18 AWG
2b	USCAR 5.4.1	Terminal Extraction Force (Primary lock only)	30N Min	No failures	TE	PV	24	E	10/23/20	10/27/11	24	E		83.30 N Min 95.35 N Max Pass	Test each circuit cavity at least once.
2c	USCAR 5.4.1	Terminal Extraction Force (Primary & Secondary Locks after Moisture Conditioning)	60N Min	No failures	TE	PV	24	Е	10/23/20	10/27/11	24	Е		75.95 N Min 85.47 N Max Pass	Test each circuit cavity at least once.
2d	USCAR 5.1.8	Visual Inspection	No visual damage to sample	No Defects	TE	PV	48	Е	10/23/20	10/27/11	48	Е		N/A Destructive test	
3	USCAR	Connector to Connect	or Mating/Unmating	Force							1	1			
	5.4.2	Test # 20201343	l.v		TDT.	DV	40	-	10/02/20	10/07/11	10			l n	
3a	USCAR 5.1.8	Visual Inspection	No visual damage to sample	No Defects	TE	PV	40	Е	10/23/20	10/27/11	40	Е		Pass	
3b	USCAR 5.4.2	Mate Fully Loaded Connector	75N Max	No failures	TE	PV	16	Е	10/23/20	10/27/11	16	Е		15.76 N Min 17.45 N Max	16 fully loaded connectors
3c	USCAR 5.4.2.3	Unmate w/ primary lock	110N Min	No failures	TE	PV	8	Е	10/23/20	10/27/11	8	Е		Pass 154.60 N Min 164.84 N Max Pass	8 connector pairs without terminals.
3d	USCAR 5.4.2	Unmate w/out primary lock	75N Max	No failures	TE	PV	8	Е	10/23/20	10/27/11	8	Е		4.97 N Min 10.85 N Max	8 connector pairs with terminals.
3e	USCAR 5.4.2.3	Disengage primary lock	70N Max	No failures	TE	PV	8	Е	10/23/20	10/27/11	8	Е		Pass 8.60 N Min 9.27 N Max	8 connector pairs without terminals.
3f	USCAR 5.1.8	Visual Inspection	No visual damage to sample	No Defects	TE	PV	40	Е	10/23/20	10/27/11	40	Е		Pass N/A Destructive test	

1X6 Generation Y Plug Assembly Page 2 of 4

1X6	TEST P	PLAN									TES	T REPOR	RT	
Item No.	Procedure Or Standard	Test Description	Acceptance Criteria	Target Requir- ments	Test Respon- sibility	Test Stage	San	nple	Tiı	ming	Sar	nples Tested	Actual Results	NOTES
	Standard			ments	Sibility		Qty	Type	Start	Compl	Qty	Type Phase	1	
4	USCAR	TPA Engage/Disengag	ge Force	1.			ı			ı		1	1	
	5.4.5	Test # 20201464												
4a	USCAR 5.1.8	Visual Inspection	No visual damage to sample	No Defects	TE	PV	30	Е	10/23/20	10/27/11	30	E	Pass	
4b	USCAR 5.4.5	TPA Pre-set to Lock w/terminals	60N Max	No failures	TE	PV	10	Е	10/23/20	10/27/11	10	Е	26.40 N Min 31.22 N Max	
4c	USCAR 5.4.5	TPA Pre-set to Lock w/out terminals	15N Min	No failures	TE	PV	10	Е	10/23/20	10/27/11	10	Е	Pass 15.21 N Min 19.27 N Max Pass	
4d	USCAR 5.4.5	TPA Lock to Pre-set	60N Max	No failures	TE	PV	10	Е	10/23/20	10/27/11	10	Е	Initial 24.05 N Min 30.03 N Max Pass	Use samples from 5b
			18N Min after initial removal										After Initial 20.02 N Min 28.72 N Max	
4e	USCAR 5.1.8	Visual Inspection	No visual damage to sample	No Defects	TE	PV	30	Е	10/23/20	10/27/11	30	Е	Pass Pass	
5	USCAR	CPA Engage/Disengag		Defects	<u> </u>	1	<u> </u>	I	<u> </u>	<u> </u>	1	1	1	1
	5.4.5	Test # 20201343												
5a	USCAR 5.1.8	Visual Inspection	No visual damage to sample	Defects	TE	PV	40	Е	10/23/20	10/27/11	40	Е	Pass	
5b	USCAR 5.4.5	CPA Engage Preset to Lock (unmated)	60N Min	No failures	TE	PV	10	Е	10/23/20	10/27/11	10	E	61.95 N Min 65.66 N Max	
5c	USCAR 5.4.5	CPA Engage Preset to lock (mated)	15 N Max	No failures	TE	PV	10	Е	10/23/20	10/27/11	10	E	Pass 8.01 N Min 11.18 N Max	
5d	USCAR 5.4.5	CPA Disengage Lock to preset (mated)	30 N Max	No failures	TE	PV	10	Е	10/23/20	10/27/11	10	Е	Pass 10.45 N Min 13.52 N Max Pass	

1X6 Generation Y Plug Assembly Page 3 of 4

1X6	1X6 TEST PLAN TEST REPOR													RT	
Item	Procedure	Test Description	Acceptance	Target	Test	Test	San	nple	Tin	ning	Sam	ples Te	ested	Actual	NOTES
No.	Or		Criteria	Requir-	Respon-	Stage								Results	110128
	Standard ments sibility														
							Qty	Type	Start	Compl	Qty	Type	Phase		
5e	USCAR	CPA Removal	30 N Min	No	TE	PV	10	Е	10/23/20	10/27/11	10	E		32.30 N Min	
	5.4.5	(unmated)		failures										44.92 N Max	
		Test # 20120045ACS												Pass	
5f	USCAR	Visual Inspection	No visual damage to	No	TE	PV	40	Е	10/23/20	10/27/11	40	Е		Pass	
5.1.8 sample Defects															
			END O	F CON	NECTO	OR SY	STE	2M –	MECHA	NICAL T	'ESTS	5			

Revision History Report Date

8/7/2020 First draft

11/17/2020 Record test values

ESER_PVPR_DU5T-14489-LA_1X6GENY_NE WTOOL

Final Audit Report 2020-11-19

Created: 2020-11-18

By: Sumit Das (sumit.das@te.com)

Status: Signed

Transaction ID: CBJCHBCAABAATEIGc-YkA2bnixgO-RHHSW2hfiE4X-BZ

"ESER_PVPR_DU5T-14489-LA_1X6GENY_NEWTOOL" History

Document created by Sumit Das (sumit.das@te.com) 2020-11-18 - 11:46:59 PM GMT- IP address: 198.137.214.33

- Document emailed to Gregory D Leece (gleece@ford.com) for signature 2020-11-18 11:47:55 PM GMT
- Email viewed by Gregory D Leece (gleece@ford.com) 2020-11-19 0:54:33 AM GMT- IP address: 136.2.33.162
- Document e-signed by Gregory D Leece (gleece@ford.com)

 Signature Date: 2020-11-19 1:01:03 AM GMT Time Source: server- IP address: 136.2.33.162
- Agreement completed. 2020-11-19 - 1:01:03 AM GMT



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.



Measurement System Analysis

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

2035363-4

1X6 GENERATION Y ASSY KEYC CPA

Production

Part Revision:

Certified Format: TYCO ELECTRONICS

Global Portfolio Status: End of life date: N/A

Craig Martin (US020569) Originator ID:

Original Date: 18 Oct 2010 Production Date: 26 Apr 2012 29 Jun 2012 Market date:

Project Number:

RDO: 0753 - Americas North T&C Sustaining ECOC: 0K00 - Motor Vehicle Product & Manufacturing

Material Type: ZFRT - FINISHED PRODUCT

Engineering Status: 2 - PRODUCTION Sales Status: 2 - GENERAL SALES 2 - NOT PLANNED Discontinuance Status: PC - PIECE

Base UOM:



Section 9 Dimensional Results



Production Part Approval

ACT-1173

TE Connectivity-Empalme is accredited by ANSI-ASQ National Accreditation Board for ISO/IEC 17025 under a defined calibration and/or testing scope.

DIMENSIONAL TEST RESULTS

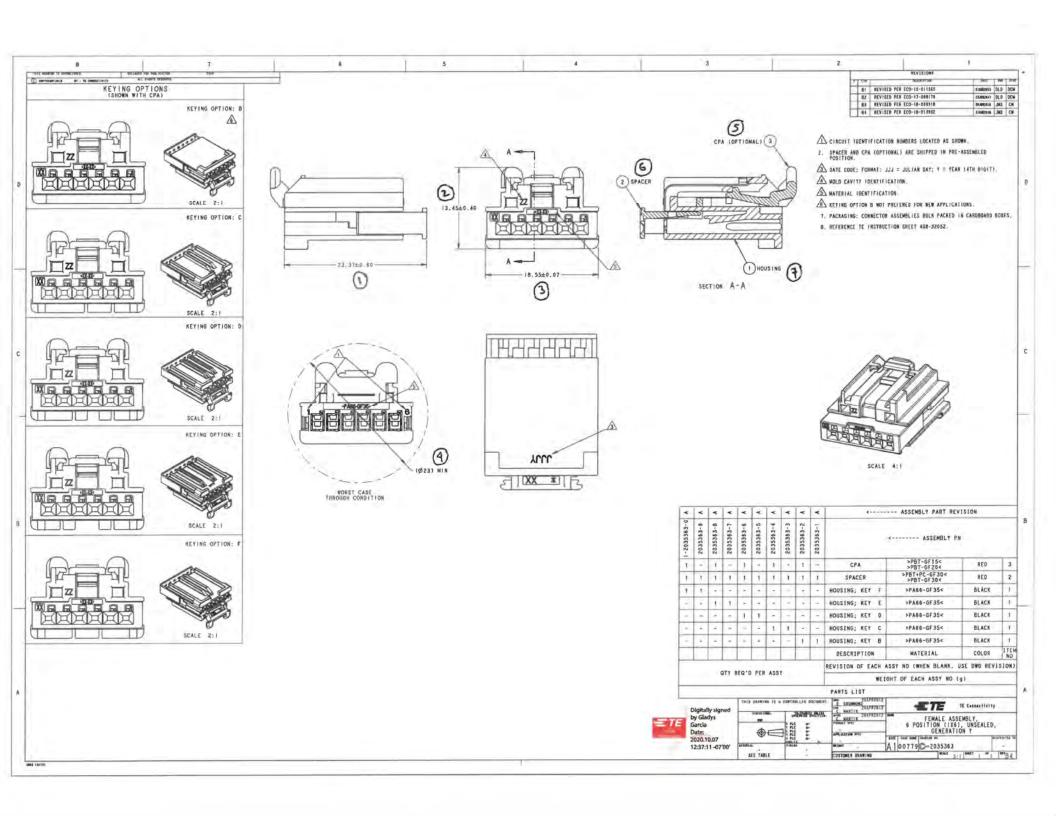
Organization: TE Connectivity Part Number: 2035363-4 FEMALE ASSEMBLY, 6 POSITION (1X6), N/A Part Name: Supplier/Vendor Code: UNSEALED, GENERATION Y INSPECTION FACILITY: Design Record Change Level: DWG: C-2035363 REV. B4 Engineering Change Documents: N/A TE Connectivity Empalme Metrology lab # Folio: 51912 Page __1_ of _1_ Dim./Spec. Spec. / Limits Organization Measurement Results (Data) Item Units Not Instrument Ok SAMPLE 1 SAMPLE 2 SAMPLE 3 SAMPLE 4 SAMPLE 5 SAMPLE 6 tol + tol -# ID 23.37 0.60 0.60 23.105 23.131 23.108 23.130 23.093 23.101 LMMC-010 1 2 13.45 0.40 13.396 13.422 13.397 13.365 13.437 13.348 LMMC-010 0.40 mm. 3 18.55 0.07 18.519 18.511 18.516 18.521 18.537 18.533 V LMMC-010 0.07 mm. **MINIMUM** 4 23 mm. OK OK OK OK OK OK V CPA (OPTIONAL) 5 OK OK OK OK OK OK V visual 6 **SPACER** visual OK OK OK OK OK OK 7 V HOUSING visual OK OK OK OK OK OK NOTES: CIRCUIT IDENTIFICATION 1 visual OK OK OK OK OK OK NUMBER LOCATED AS SHOWN. SPACER AND CPA (OPTIONAL) ARE SHIPPED IN PRE-ASSEMBLED OK OK OK 2 visual ΟK OK OK POSITION. DATE CODE: FORMAT: JJJ = JULIAN DAY; Y = YEAR (4TH 3 visual OK OK OK OK OK OK DIGIT). 4 MOLD CAVITY IDENTIFICATION. visual OK OK OK OK OK OK V 5 MATERIAL IDENTIFICATION. OK OK OK OK OK OK V visual KEYING OPTION B NOT PREFERED FOR NEW 6 OK OK OK OK OK OK visual APPLICATIONS. PACKING: CONNECTOR ASSEMBLIES BULK PACKED IN 7 NOTED PER APQP TEAM CARDBOARD BOXES. REFERENCE TE INSTRUCTION 8 NOTED PER APQP TEAM SHEET 408-32052. **CONCLUSION: TOTAL # OF FEATURES** 24 LESS BASIC DIMENSIONS 0 LESS REFERENCE DIMENSIONS REPORTED DIMENSIONS 24 # DIMENSIONS IN TOLERANCE 24 # DIMENSIONS OUT OF TOLERANCE % DIMENSION IN TOLERANCE 100.00 % % DIMENSION OUT OF TOLERANCE 0.00 %

March 2006 CFG-1003

AEF004J-EG Rev: J

SIGNATURE TITLE DATE

Omar Sánchez Metrology Chief October 9, 2020





Section 10 Material, Performance Test Results



Ames Industries, Inc. 2999 Elizabethtown Rd. Hershey, PA 17033 (717) 533-3400 Fax (717) 533-7686

CERTIFICATE OF CONFORMANCE

Company:

TE CONNECTIVITY CORPORATION

A1694

PO Number

SA 2550147218

P/N **2-1419170-0-B1**

Rev

B2 Part Description 2 X 4 GET FEMALE SPACER

Raw Material No. / Description / Supplier

Quantity Shipped

45,000

1-703566-3 / VALOX 508-R RD6C017 RED / SABIC

Lot Number

35607-0011155601

WE CERTIFY THAT THE ABOVE PART NUMBER MEETS THE REQUIREMENTS OF THE APPL TE CONNECTIVITY CORPORATION PRODUCT PRINT AND SPECIFICATIONS. COMPLIANCE CERTIFIED BY THE UNDERSIGNED QUALITY ASSURANCE MANAGER.

Q.A. Signature:

Kevin Chabala

Date:

6/9/2020



Certificate of Analysis

Customer:

Product Number

: 52568990

TE CONNECTIVITY CORPORATION

Product Name

: ULTRAMID® A3EG7 BLACK 23189

8000 PIEDMONT TRIAD PKWY

POLYAMIDE 726KG FIBREBOARD IBC

GREENSBORO NC 27409-9407

Vehicle Batch/Lot

: 0209229324

Manuf.Date

Attention:

FAX:

Shipped Date

: Sep-10-2020

Cust Prod:

Shipped Quantity

: 16,005.560 LB

702661-9 Cust Prod Name: ULT.A3EG7 BK23189 726KG 11G Delivery Date

: Oct-01-2020 : 117746080 000010

Cust P.O.:

2713201734

Order Number

Cust P.O. Line:

Delivery Note

: 144860746 900001

Inspection Certificate 3.1 according to EN 10204

	Specification						
Characteristic	Result	UOM	Minimum	Maximum	Test Method		
				_			
Ash / Filler Content	35.300	%	33.000	37.000	ASTM5630/ISO3451		
Moisture Content	80.0	%		0.15	ASTM D6869 / ISO 15512B		
Viscosity Number for Polyamides	143	ml/g	130	160	ISO 307		

Comments:

Results shown are the means of individual test values determined on samples taken during production of the lot specified.

This product is approved for the following specifications:

MS-DB41 CPN 2224 MS-DB41 CPN 3695

M5600 M53122

Page 1 of 1

The information contained herein is based either on analytical tests of samples or on statistical process data; it is intended solely for purposes of comparison with the established specifications for the product. Warranties of the product are exclusively as set forth in the applicable contract documents.



TYCO ELECTRONICS NCDC2 8000 PIEDMONT TRIAD PKWY GREENSBORO NC 27409 USA

DAVID HAMILTON

The Verst Group Ticona Polymers 1100 Burlington Pike FLORENCE KY 41042

Type 2 Certificate of Analysis

CELANEX 1632Z ES3144 RED (Z7)

Customer Part No.:

705038-1

Formula No.:

1632Z

Catalog:

21017405

Color No.:

ES3144

Produced at:

Florence, KY, USA

Cert Issue Date:

20 Jan 2020

Oty Shipped:

USA

4,960.000 LB

Order Item /date:

2238232 10 / 19 Nov 2019

Delivery item/date:

86433562 900001 / 24 Jan 2020

Account #:

2080916

Customer PO No.:

2710298680

Rail car:

See Senders Inst.

Batch 0001297016

In reference to the above, this is to advise you that this is a standard product and meets the following requirements:

BATCH RELEASE DATA

UoM

Value

Melt Flow Rate (MFR)

(ISO 1133-1, ASTM D1238)

g/10min

9.50

Ash Content

15.71 %(m)

These test data are determined based on standard ISO and/or ASTM testing procedures.

Polyester Global Business Line

If you have questions regarding this letter, please call your Customer Service Team at 800-526-4960.



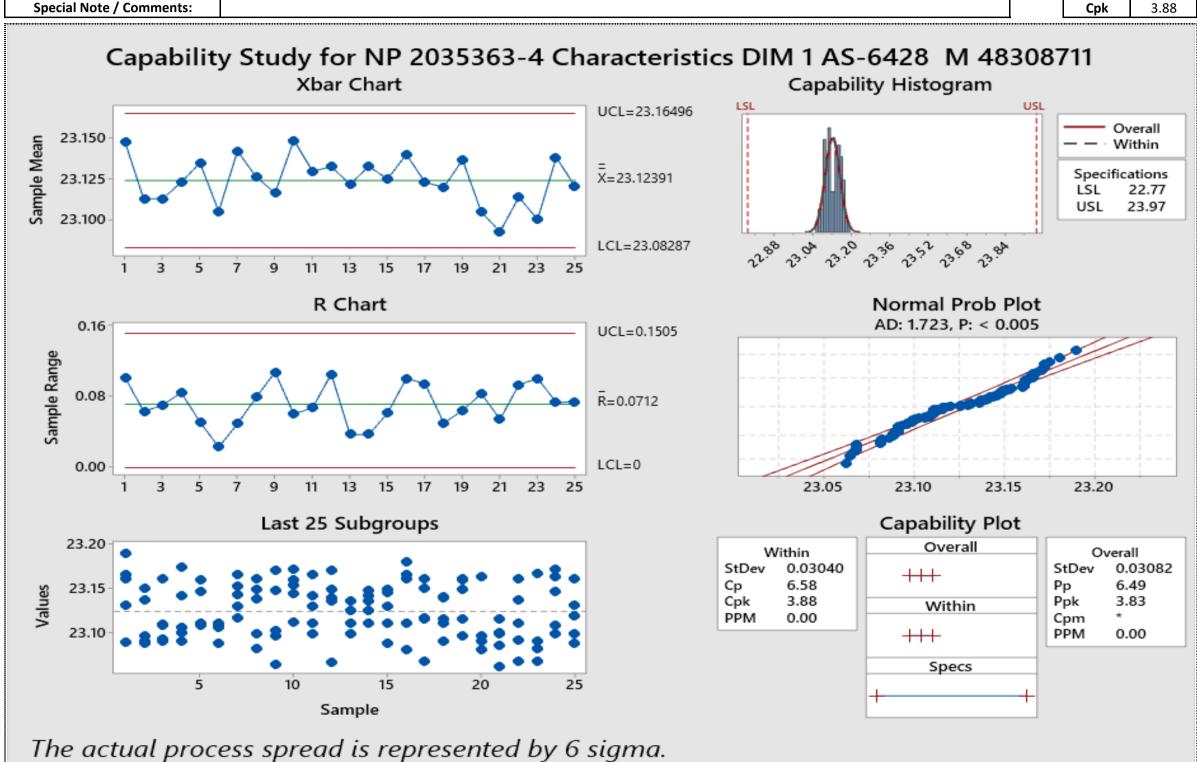
Section 11 Initial Process Studies



Capability StudyPart Number TE:2035363-4NP Customer:2035363SFEMALE ASSEMBLY 6 POSITION (1X6) UNSEALED GENERATION Y

Folio Metrologia: 51922

October 10, 2020





Section 12 Qualified Laboratory Documentation





Certificate of Registration

OUALITY MANAGEMENT SYSTEM - IATF 16949:2016

This is to certify that: TE Connectivity

Global Automotive Division

Americas North

Carretera Internacional, KM 1969

Guadalajara-Nogales Km 2

Empalme Sonora 85340 Mexico

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 Pitanga, Chief Operating C Assurance – Americas

BSI Certificate Number: 514458-003

IATF Number: 0315420

Page: 1 of 2

Certification Date: 2018-07-11

Latest Issue: 2018-07-11

...making excellence a habit."

Expiry Date: 2021-07-10

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 clarifications 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.

Location

TE Connectivity
Global Automotive Division
Americas North
Carretera Internacional, KM 1969
Guadalajara-Nogales Km 2
Empalme
Sonora
85340
Mexico

Registered Activities

Manufacture of interconnecting devices.

Including the following remote support functions:

TE Connectivity Global Automotive Division Americas North 900 Wilshire Boulevard Suite 150 Troy, MI 48084 Design and Development.

TE Connectivity
Global Automotive Division
Americas North
Fulling Mill Road
Middletown, PA 17057
Design and Development, Product Testing and Customer
Service.

TE Connectivity
Global Automotive Division
Americas North
3800 Reidsville Road
Winston-Salem, NC 27102
Design and Development, Product Testing and Calibration,
Business Office (Quote Process) and Purchasing.

TE Connectivity
Global Automotive Division
Americas North
20 Esna Park Drive
Markham, Ontario
L3R 1E1 Canada
Design and Development and product testing (optics lab)

TE Connectivity
Global Automotive Division
Americas North
2100 Paxton Street
Harrisburg, PA 17111
Provision of Product Testing to TE Connectivity Manufacturing
Sites.

TE Connectivity North Carolina Distribution Center 8000 Piedmont Triad Parkway Greensboro, North Carolina 27409 Receiving Inspection, Storage / Inventory.

BSI Certificate Number: 514458-003

IATF Number: 0315420





Certification Date: 2018-07-11 Latest Issue: 2018-07-11 Expiry Date: 2021-07-10

Page: 2 of 2

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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: 266173983 / 19 Page: 1 / 4

User: Espinoza, Enrique Date: 11/23/20 4:46:45 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 1.2 Product Identification

Name [ID]: Tyco Electronics GAD Part/Item No.: 2035363-4

[913]

DUNS Number: - Description: 6 Pos Female Unsealed

Connector Assembly GET Generation Y

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: - Preliminary MDS: **No**

- Fax No.: - IMDS ID / Version: 266173983 / 19
- E-Mail Address: imds@te.com Node ID: 891793262

MDS Status (Change Internally released

Date): (12/26/2019)

IMDS ID / Version: 266173983 / 19 Page: 2 / 4

User: Espinoza, Enrique Date: 11/23/20 4:46:45 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

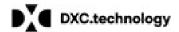
Part/Item No.: 2035363-4 Report No.:

Description: 6 Pos Female Unsealed Connector Assembly GET IMDS ID / Version: 266173983 / 19

Generation Y

Node ID: **891793262**

Tree Level	Description Article Name Name Substance name	Part/Item No. Item-/MatNo. Material-No. CAS No.	IMDS ID / Version	Quantity	© → も Weight	Portion	Portion (from - to) [%]	Classif. GADSL, SVHC	 Parts Marking Recyclate (Indust./Consumer) △ Application [ID]
1	6 Pos Female Unsealed Connector Assembly GET Generation Y	2035363-4	266173983 / 19		2.789	[70]	[70]	SVIIG	Application [15]
-2	6 Pos Female Housing Generation Y-Black	0-2035362-2	240548465 / 2	1	2.147				Yes
-3	PA66-GF35	% 702661-9	70521492 / 3		2.147			🔩 5.1.a	No No



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User: Espinoza, Enrique Date: 11/23/20 4:46:45 PM

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.	Parts Marking Recyclate (Indust./Consumer)
<u>-4</u>		system			[g]	[%]	[%]	SVHC	Application [ID]
		△ -							
- 4	♠ GF-Fibre					35			
- 4	♠ Carbon black	4 1333-86-4				0.5			
 -4	♠ PA66	4) -				64			
-2	Female Spacer 6 Pos (1X6) Generation Y - Red	2 035361-1	240548380 / 6	1	0.326				Yes
-3	PBT+PC-GF30	1-703566-3	553590750 / 1		0.326			5.1.a	No No
 -4	♠ PBT+PC	△ -				66.23431	60 - 70		
 4		\alpha -				28.117155	25 - 30		
 -4	Further Additives, not to declare	system				1.870293	0 - 3		
 -4	Pigment portion, not to declare	system				1.870293	0 - 3		
 -4		4 1314-98-3				1.90795	0.1 - 3	♠ D/P	
-2	GET, CPA Unsealed - Red	8-1419168-4	3659595 / 30	1	0.316				Yes
-3	PBT-GF20	703653-2 + 702998-5	323074718 / 4		0.316			\$ 5.1.a	№ No
 -4	PBT-GF20	% 703653-2	251635500 / 3			97.5		% 5.1.a	
 - 5	♠ GF-Fibre	4 -				20			
 - 5	Further Additives, not to declare	system				1			
 - 5	♠ PBT	4 -				79			
 -4	PE Colour Masterbatch	% 0-0702998-5	174083055 / 4			2.5	2 - 3	5.1.b	
 - 5	♠ PE-LD	△ -				70			

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User: Espinoza, Enrique Date: 11/23/20 4:46:45 PM

Tree Level	Article Name Name	Part/Item No. Item-/MatNo. Material-No.	IMDS ID / Version	Quantity	Ø 🍑 🐁 Weight	Portion	Portion (from - to)		Parts Marking Recyclate (Indust./Consumer)
	Substance name	4 CAS No.			[g]	[%]	[%]	SVHC	Application [ID]
 - 5	Pigment portion, not to declare	system				10			
 - 5	4 C.I. Solvent Red 135	4 20749-68-2				10			
F5									
	This is an uncontrolled copy of a document created by IMDS. End of the report.								



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 Corparization Nama and Supplier Code Customer Name/Division Are polymers parts information been reported Submitted by IMDS or other customer format Submitted by IMDS or other customer format Are polymers parts information been reported Are polymers parts information been reported Submitted by IMDS or other customer format Are polymers parts information and paperprised ISD marking codes? Are polymers parts information and paperprised ISD marking codes? Are polymers parts information and paperprised ISD marking codes? Are polymers parts information and paperprised ISD marking codes? Are polymers parts information and paperprised ISD marking codes? Are polymers parts information and paperprised ISD marking codes? Are polymers parts information information been reported Engineering Change(s) Toding Transfer, Replacement, Refutichment, or additional Coveredant Discrepancy Dates Transfer, Replacement, Refutichment, or additional Coveredant Discrepancy Change in Part Processing Change in Pa	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	Shown on Drawing Number	Org.Part Number
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 (Citock 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 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 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 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. But 9 - Warrant with product samples and complete supporting da	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 parts and appropriate ISO marking codes? Are part Processing Part Processing Change in Part Processing	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 FOR CUSTOMER USE ONLY (IF APPLICABLE) Process Signature Phone No. Paproved Rejected Other FOR CUSTOMER USE ONLY (IF APPLICABLE)	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 Appea Level 2 - Warrant with product samples and limited supporting data sub Level 3 - Warrant with product samples and complete supporting data sub Level 4 - Warrant and other requirements as defined by customer. Level 5 - Warrant with product samples and complete supporting data of SUBMISSION RESULTS The results for dimensional measurement material and furthese results meet all design record requirements: Yes Mold / Cavity / Production Process DECLARATION I affirm that the samples represented by this warrant are representative of our parts, we process Manual 4th Edition Requirements. I further affirm that these samples were presented in the samples were presented to the samples and the samples were presented to the samples and the samples were presented to the samples and the sampl	mitted to customer. ubmitted to customer. eviewed at supplier's manufacturing location. notional tests appearance criteria statistical process package No (If "No" - Explanation Required) which were made by a process that meets all Production Part Approval and beduced 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