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PPAP Package for:

Newark Electronics
Customer Part Number: 79Y3750
(TE Connectivity Part Number): 2203459-1
May-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.

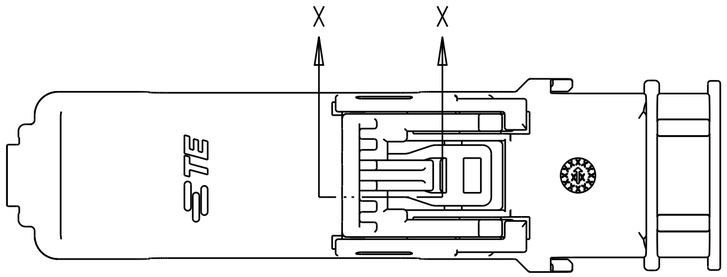
Section 1

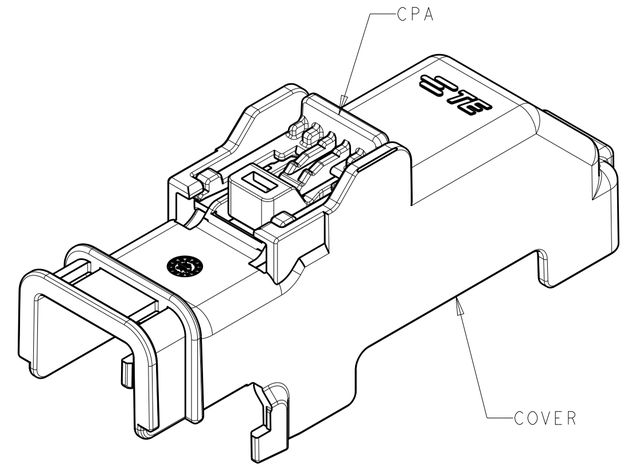
Design Records

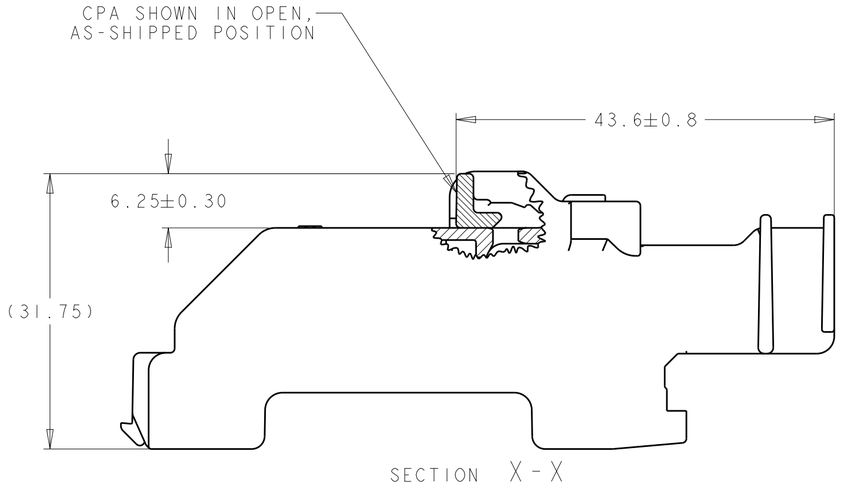
LOC	DIST
BV	00

REVISIONS

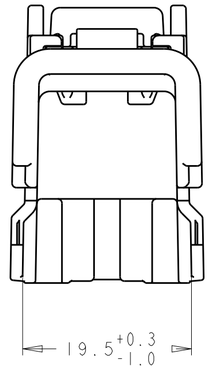
P	LTR	DESCRIPTION	DATE	DWN	APVD
	A	REV PER ECO-15-012931	18SEP2015	AJV	AJV

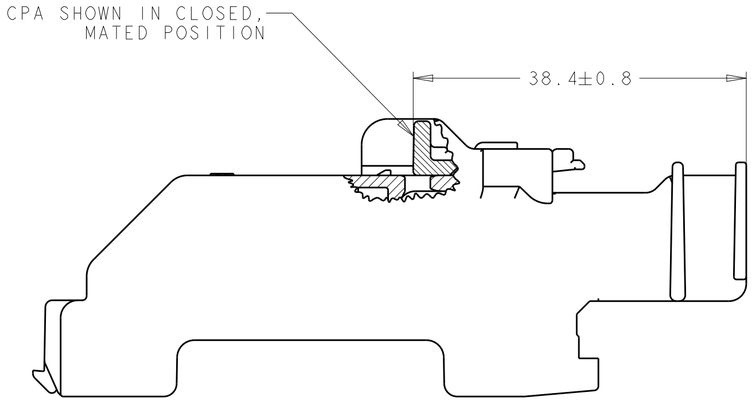






SECTION X - X





SECTION X - X

1. MATERIAL:
   COVER: NYLON 6/6, 35% GLASS-FILLED, BLACK
   CPA: NYLON 6/6, 35% GLASS-FILLED, RED
2. THIS WIRE DRESS ASSY IS DESIGNED TO BE USED WITH PLUG ASSY SERIES 2203455, SOLD SEPERATELY

2203459-1

PART NO.

THIS DRAWING IS A CONTROLLED DOCUMENT.

DIMENSIONS: mm

TOLERANCES UNLESS OTHERWISE SPECIFIED:

0 PLC	±-
1 PLC	±0.5
2 PLC	±0.3
3 PLC	±-
4 PLC	±-
ANGLES	±1°

MATERIAL: -

FINISH: -

DWN	R. VESTAL	08OCT2012
CHK	H. BECK	08OCT2012
APVD	A. VASBINDER	18SEP2015

PRODUCT SPEC: 108-32096

APPLICATION SPEC: -

WEIGHT: -

TE Connectivity

NAME: COVER ASSEMBLY, WIRE DRESS FOR 28 POSITION PLUG

SIZE	CAGE CODE	DRAWING NO	RESTRICTED TO
A2	00779	C-2203459	-

Customer Drawing

SCALE 2:1 SHEET 1 OF 1 REV A

Section 2

Engineering Change Documents

Product Change Notification

Current Date: 05-Nov-2019

TE Connectivity

Product Change Notification: P-19-018173 **PCN Date:** 02-NOV-19

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:
28P Sealed GFx & 13P UNSEALED PLUG

Description of Changes
This process is currently a manual assembly process. The main purpose of this change is to develop this assembly as a semiautomatic assembly process. No Form, Fit, Function change, No change on COO.

Reason for Changes:	
Product improvement.Demand is bigger than actual output of the line.	
Estimated Dates:	
Last Order Date (Obsolete Parts Only):	**First Date To Ship** (Changed Parts Only):
	23-DEC-2019
Last Ship Date (Obsolete Parts Only):	**Last Date for Mixed Shipments:** (Changed Parts Only):
	No Mixed Shipments

Part Number(s) being Modified:

Part Number	Part Discontinued per PCN	Customer Drawing	Alias Part Number(s)	Substitute Part Number	Substitute Alias Part Number(s)	Description Of Difference
2203459-1	NO					
2203990-1	NO					
2203990-2	NO					
2272724-1	NO					
2325232-1	NO					

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.

Section 5

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.

Section 6

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.

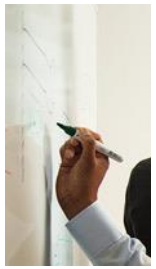
Section 7

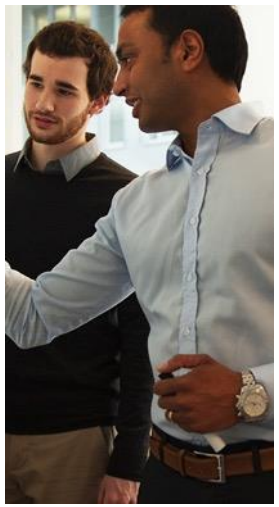
Control Plan

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





Gage R&R

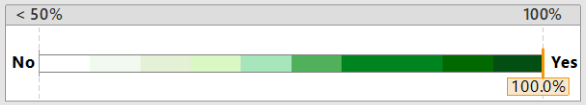
28P □ ire Dress Cover

EVERY CONNECTION COUNTS

TE connectivity

Attribute Agreement Analysis for Results
Summary Report

Is the overall % accuracy acceptable?

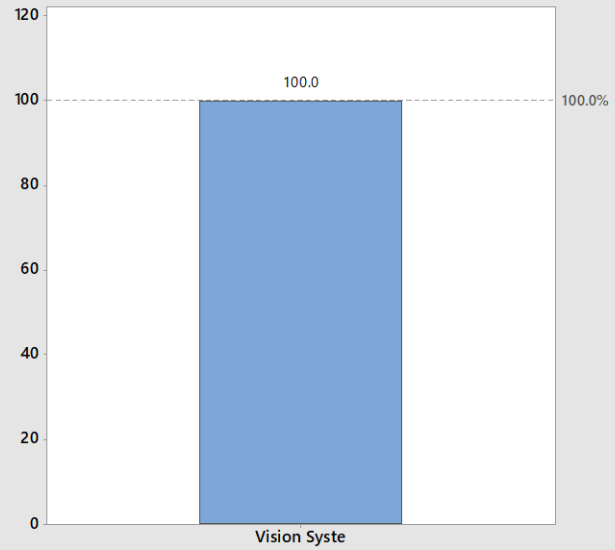


The appraisals of the test items correctly matched the standard 100.0% of the time.

Misclassification Rates

Overall error rate	0.0%
Good rated Bad	0.0%
Bad rated Good	0.0%
Mixed ratings (same item rated both ways)	0.0%

% Accuracy by Appraiser



Comments

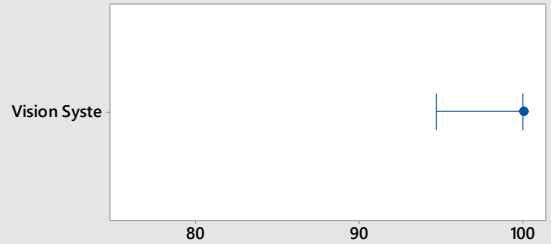
Mixed bad samples with good samples were passed through vision system controls to validate its reliability.

Defect Modes:
-Missing CPA
-Closed CPA
-Sub-Inserted CPA
-CPA Broken right leg
-CPA Broken left leg
-Incorrect housing

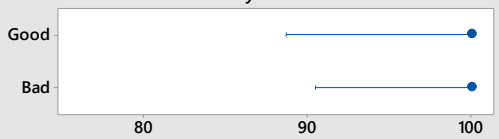
Attribute Agreement Analysis for Results
Accuracy Report

All graphs show 95% confidence intervals for accuracy rates.
Intervals that do not overlap are likely to be different.

% by Appraiser

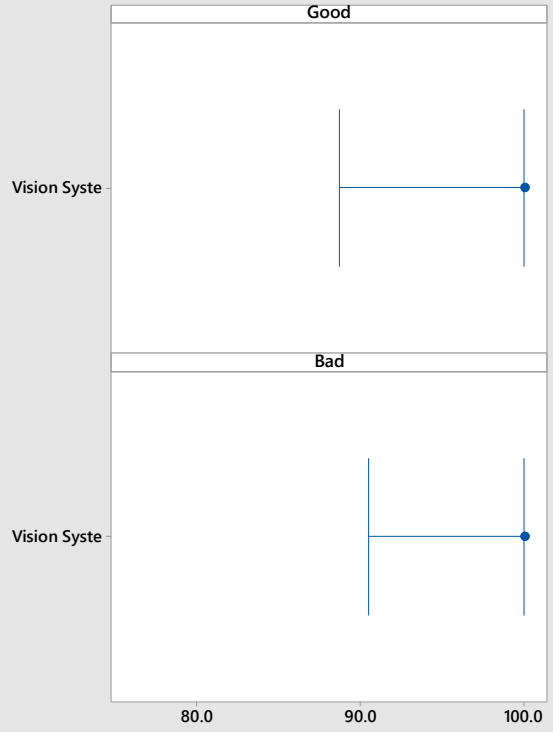


% by Standard



% by Trial

% by Appraiser and Standard



Gage Information

Date of study: 03/02/2020
Reported by: Gamaliel Canedo
Name of product: 28P Wire Dress Cover
Misc:

Within Appraisers

Assessment Agreement

Appraiser	# Inspected	# Matched	Percent	95% CI
Vision System Camera	11	11	100.00	(76.16, 100.00)

 # Matched: Appraiser agrees with him/herself across trials.

Fleiss' Kappa Statistics

Appraiser	Response	Kappa	SE Kappa	Z	P(vs > 0)
Vision System Camera	Good	1	0.0953463	10.4881	0.0000
	Bad	1	0.0953463	10.4881	0.0000

Cohen's Kappa Statistics

There are more than two trials within each appraiser. Cannot compute kappa.

Each Appraiser vs Standard

Assessment Agreement

Appraiser	# Inspected	# Matched	Percent	95% CI
Vision System Camera	11	11	100.00	(76.16, 100.00)

 # Matched: Appraiser's assessment across trials agrees with the known standard.

Assessment Disagreement

Appraiser	# Bad / Good	Percent	# Good / Bad	Percent	# Mixed	Percent
Vision System Camera	0	0.00	0	0.00	0	0.00

 # Bad / Good: Assessments across trials = Bad / standard = Good.
 # Good / Bad: Assessments across trials = Good / standard = Bad.
 # Mixed: Assessments across trials are not identical.

Fleiss' Kappa Statistics

Appraiser	Response	Kappa	SE Kappa	Z	P(vs > 0)
Vision System Camera	Good	1	0.134840	7.41620	0.0000
	Bad	1	0.134840	7.41620	0.0000

Cohen's Kappa Statistics

Appraiser	Response	Kappa	SE Kappa	Z	P(vs > 0)
Vision System Camera	Good	1	0.134840	7.41620	0.0000
	Bad	1	0.134840	7.41620	0.0000

Summary of Assessment Disagreement with Standard

Appraisers		Vision System Camera	
Sample	Standard	Count	Percent
Missing CPA	Bad	0	0.00
Closed CPA	Bad	0	0.00
Sub-Inserted CPA	Bad	0	0.00
CPA - Broken Right Leg	Bad	0	0.00
CPA - Broken Left Leg	Bad	0	0.00
Incorrect Housing	Bad	0	0.00
Good Sample 1	Good	0	0.00
Good Sample 2	Good	0	0.00
Good Sample 3	Good	0	0.00
Good Sample 4	Good	0	0.00
Good Sample 5	Good	0	0.00

Section 9

Dimensional Results

METROLOGY LABORATORY
Blvd. Industrial Norte #23 esq. Con Blvd. Solidaridad
Parque Industrial Norte
Phone: 52 (662)-5003659

Web address: www.te.com

ACT-2634

Part Name:	COVER ASSEMBLY, WIRE DRESS FOR 28 POSITION PLUG				
Part Number:	**2203459-1**	Date of report:	26May2020		
Drawing Number:	C-2203459	**Required by:**	Ricardo Luna		
Revision:	N/A A	Title:	Manufacturing Technician	Laboratory Conditions	
Units of measurement:	mm	Tool Number (if apply):	NA	**Temp** 19.8 °C	**%RH** 43

Inspection equipment and measurement of uncertainty: Refer to Instrument ID and certificate of calibration

Inspected By:	**Erasmo Núñez / Metrology Tech**	Reviewed by:	Felipe Alvarado
Email address:	erasmo.nunez@te.com	Title:	Metrology Tech

Task # 967

MEASUREMENTS INSPECTION REPORT

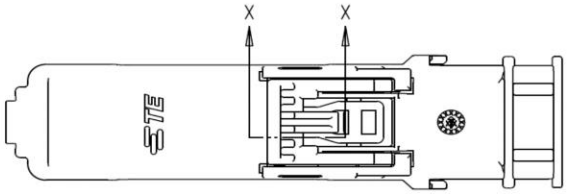
Instrument ID #	Item #	Nominal	Tolerance (-)	Tolerance (+)	Limits Lower	Limits Upper	Sample 1	2	3	4	5	6	Result Accept	Result Reject
EMVU-005	3	43.60	0.80	0.80	42.80	44.40	43.169	43.287	43.078	43.183	43.045	43.149	√	
EMVU-005	4	31.75	REF	REF	REF	REF	31.797	31.829	31.816	31.842	31.834	31.825	√	
EMVU-005	5	6.25	0.30	0.30	5.95	6.55	6.249	6.253	6.276	6.294	6.292	6.221	√	
EMVU-005	6	19.50	1.00	0.30	18.50	19.80	18.866	19.091	18.865	18.936	18.952	19.105	√	
EMVU-005	7	38.40	0.80	0.80	37.60	39.20	38.707	38.689	38.617	38.648	38.821	38.557	√	
NOTES:	△1	MATERIAL:									INFORMED		√	
		COVER: NYLON 6/6, 35% GLASS-FILLED, BLACK									-		-	
		CPA: NYLON 6/6, 35% GLASS-FILLED, RED									-		-	
	△2	THIS □ IRE DRESS ASSY IS DESIGNED TO BE USED									INFORMED		√	
		□ ITH PLUG ASSY SERIES 2203455, SOLD SEPERATELY									-		-	

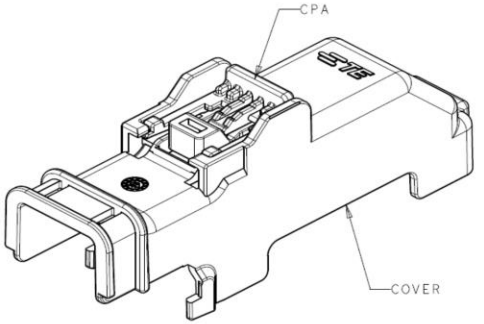
END OF MEASUREMENTS

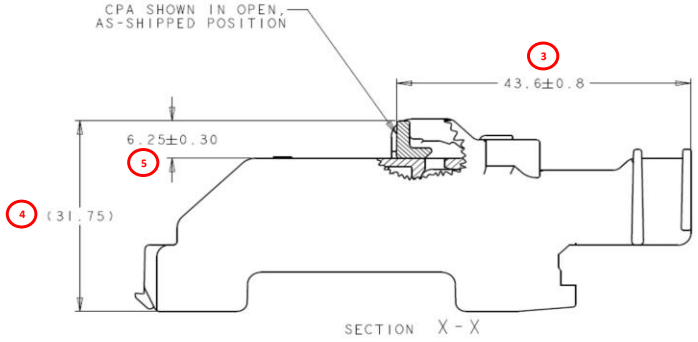
LOC	DIST
BV	00

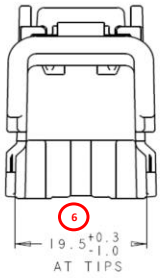
REVISIONS

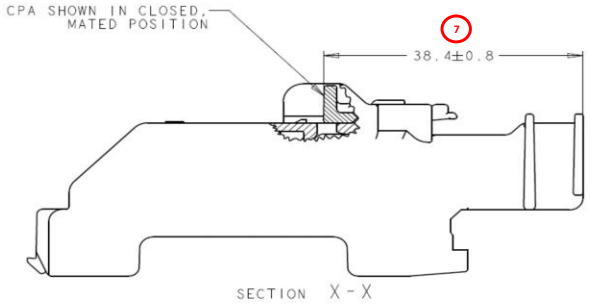
P	LTR	DESCRIPTION	DATE	DWN	APVD
	A	REV PER ECO-15-012931	18SEP2015	AJV	AJV











1. MATERIAL:
   COVER: NYLON 6/6, 35% GLASS-FILLED, BLACK
   CPA: NYLON 6/6, 35% GLASS-FILLED, RED
2. THIS WIRE DRESS ASSY IS DESIGNED TO BE USED WITH PLUG ASSY SERIES 2203455, SOLD SEPERATELY

2203459-1
PART NO.

THIS DRAWING IS A CONTROLLED DOCUMENT.

DIMENSIONS: mm

TOLERANCES UNLESS OTHERWISE SPECIFIED:
0 PLC ±-
1 PLC ±0.5
2 PLC ±0.3
3 PLC ±-
4 PLC ±-
ANGLES ±1°

MATERIAL -
FINISH -

DWN R. VESTAL 08OCT2012
CHK H. BECK 08OCT2012
APVD A. YASBINDER 18SEP2015
PRODUCT SPEC 108-32096
APPLICATION SPEC -
WEIGHT -
Customer Drawing

TE Connectivity

NAME COVER ASSEMBLY, WIRE DRESS FOR 28 POSITION PLUG

SIZE	CAGE CODE	DRAWING NO	RESTRICTED TO
A2	00779	C-2203459	-

SCALE 2:1 SHEET 1 OF 1 REV A

1471-9 (3/11)

Section 10

Material, Performance Test Results

Certificate of Analysis
Color Concentrate

942 Brooks Avenue
Holland, MI 49423

Phone 616-394-3800
Toll Free 800-44-COLOR / 800-442-6567
Fax 616-394-3824
Website www.uniformcolor.com

Date: 2019-12-27
Report # UH-096427-001
Revision # 0

Customer: TE CONNECTIVITY CORPORATION - CORPORATE
Ship-To: TE CONNECTIVITY CORPORATION
TE HERMOSILLO AUTOMOTIVE
C/O THE ILS COMPANY, LLC, BLDG L30
8350 EAST OLD VAIL ROAD SUITE S
TUSCON, AZ 85747
United States

Lot Number	Product Code	Specification	Part Number	PO Number	Production Date
C0000529495	[52-6324] DARK RED	QAWI-036	1573155-6	2710444056	2019-12-27

Light Source	Master	LDR	Tolerance	Resin Designed For	Product Form
Fluorescent		25 :1	COMMERCIAL	BASF A3HG2	COLOR CONCENTRATE

The data below was obtained on the material indicated and is subject to the deviation inherent in the specified test methods. Results may vary under other test methods or conditions.

Test Description	Test Method	Specification		Test Results	Units
		Minimum	Maximum		
Visual Color Approval	ASTM D1729 In-house			Pass	Pass/Fail

Comments/Notations:

After review of quality records, this material has been produced and approved for release, meeting all specification requirements agreed upon between customer and Uniform Color Company.

This document is produced digitally and is valid without a signature.
Questions? Email: quality@uniformcolor.com

Ascend Performance Materials Operations LLC
Nylon Plastics and Polymers
3000 Chemstrand Road
Cantonment, FL 32533
Telephone: (850) 968-7000

TYCO ELECTRONICS
8000 PIEDMONT TRIAD PKWY
Greensboro, NC 27409
Attention: SHIRLEY HATHAWAY

Container ID: PRO #10360258100 1

Certificate Date: 10-MAR-20
Delivery No: 0382516198
Shipped Qty: 1,725.000 Lbs
(782.460 Kgs)
Customer P.O. No: 2711074444

Certificate of Analysis

This certifies that the Nylon Resin shipped to you from Ascend Performance Materials Operations, LLC has been tested and found to meet the required specifications.

This material was produced under a Quality System that meets ISO 9001:2015 and IATF 16949:2016 criteria.

This Nylon Resin meets the relevant requirements of Directive 2011/65/EU ("RoHS 2 Directive") including all amendments through Directive 2015/863 on the restriction of the use of certain hazardous substances in electrical and electronic equipment and Directive 2012/19/EU on waste electrical and electronic equipment ("WEEE Directive").

If you have questions or concerns about this Certificate of Analysis, please contact Ascend Performance Materials Customer Operations at 1-888-927-2363.

Material Type: VYDYNE R535J NT0665 **Material No:** 10400965 **Batch No** IA12FY01 **Date of Mfg** 12-JAN-2020

Ascend Performance Materials Operations LLC Specification

Lot Data **Property**	**Test Method**	**Min**	**Max**	**Result**	**Units**
Moisture	STM 00835		0.20	0.13	%
Tensile @ Brk.	STM 01253	190		211	MPa

Note: This certificate is generated and controlled by electronic means. No signature is required. This document may not be reproduced, except in full, without written consent of the Nylon Plastics and Polymers Department, Ascend Performance Materials Operations LLC.

All information contained in this letter is provided for informational purposes only and is not meant to alter or waive the appropriate contractual product specifications. Moisture values are representative of the product at the time it was sampled. If numerical flame spread ratings appear herein, they are not intended to reflect tha hazards presented by this or any other material under actual fire conditions. Each end user should determine whether potential fire hazards are associated with the finished product, and whether this resin is suitable for the particular end use.

BASF CORPORATION

We create chemistry

Certificate of Analysis

Customer:

TE CONNECTIVITY CORPORATION
8350 E OLD VAIL RD
TUCSON AZ 85747-9197

Attention:
FAX:
Cust Prod: 1573375-3
Cust Prod Name: ULT.A3HG7 BK00564 726KG 11G
Cust P.O.: 2711517241
Cust P.O. Line: 1

Inspection Certificate 3.1 according to EN 10204

Product Number : 51396684
Product Name : ULTRAMID® A3HG7 BLACK 00564 POLYAMIDE 726KG FIBREBOARD IBC
Vehicle :
Batch/Lot : WF0007093
Manuf.Date : Jan-07-2020
Shipped Date :
Shipped Quantity : 3,201.112 LB
Delivery Date : Mar-24-2020
Order Number : 117456551 000010
Delivery Note : 144360800 900001

Characteristic	Result	UOM	-----Specification----- Minimum	Maximum	Test Method
Ash / Filler Content	34.54	%	33.00	37.00	ASTM5630/ISO3451
Moisture Content	0.05	%		0.15	ASTM D6869 / ISO 15512B
Viscosity Number for Polyamides	146	ml/g	130	154	ISO 307

Comments :

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

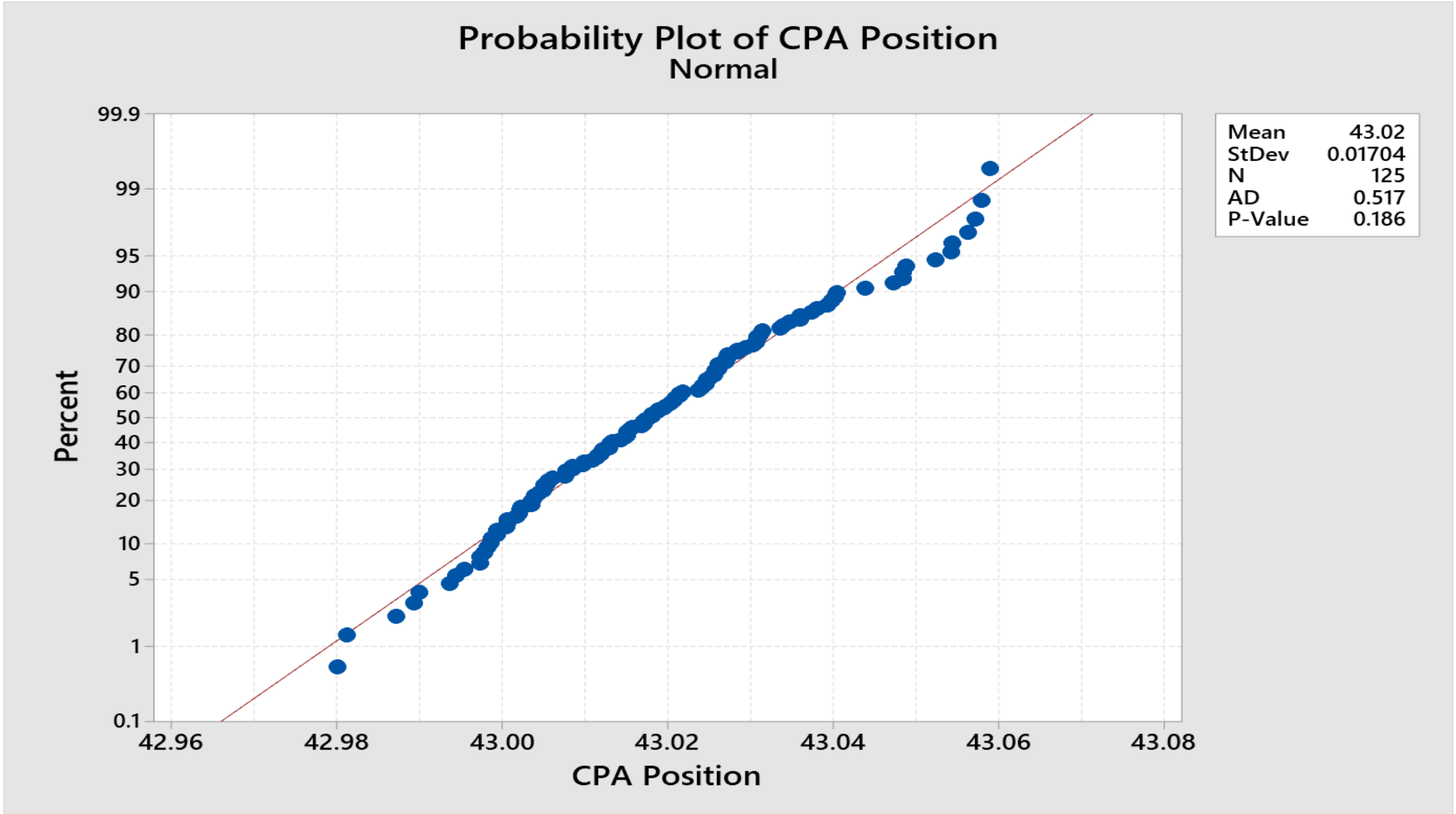
This product is approved to the following specifications:

GMP.PA66.013
GMW3038P-PA66-GF35H
GMW16802P-PA66-GF35
ASTM D6779 PA012G35

Please note: ASTM D4066 has been replaced by ASTM D6779 PA012G35

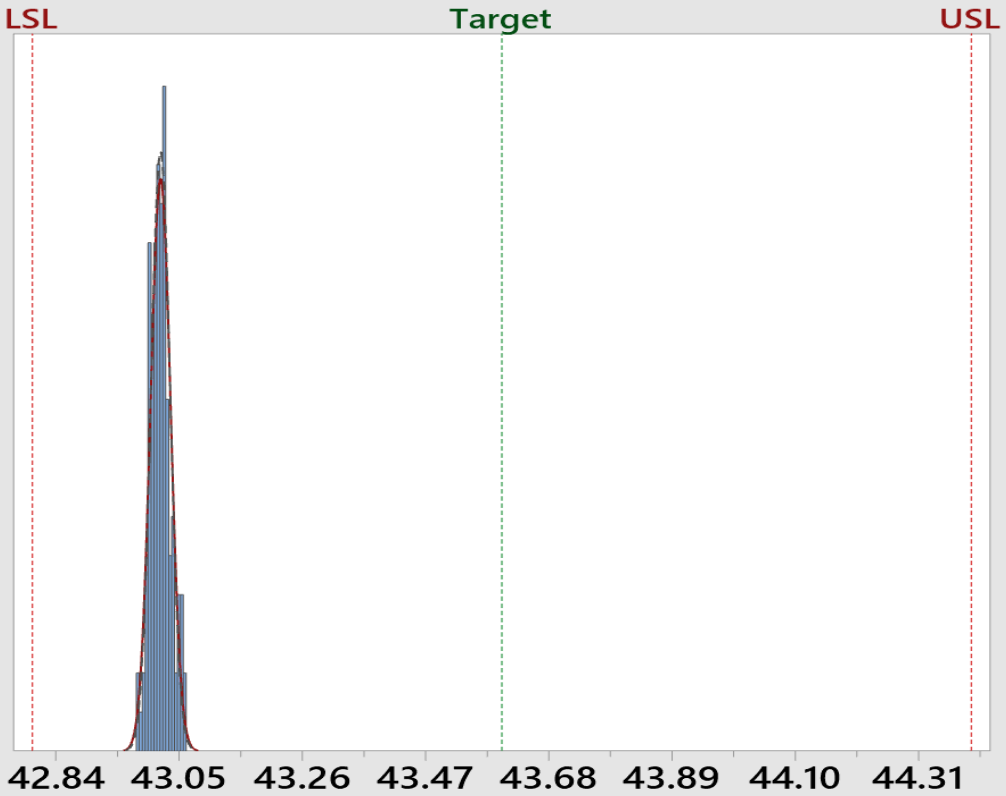
Section 11

Initial Process Studies


Probability Plot of CPA Position
Normal
Percent
99.9
99
95
90
80
70
60
50
40
30
20
10
5
1
0.1
42.96
42.98
43.00
43.02
43.04
43.06
43.08
CPA Position
Mean 43.02
StDev 0.01704
N 125
AD 0.517
P-Value 0.186

Process Capability Report for CPA Position

Process Data	
LSL	42.8
Target	43.6
USL	44.4
Sample Mean	43.0187
Sample N	125
StDev(Overall)	0.0170369
StDev(Within)	0.0162727



Overall
Within

Overall Capability	
Pp	15.65
PPL	4.28
PPU	27.02
Ppk	4.28
Cpm	0.46

Potential (Within) Capability	
Cp	16.39
CPL	4.48
CPU	28.29
Cpk	4.48

Performance	Observed	Expected Overall	Expected Within
PPM < LSL	0.00	0.00	0.00
PPM > USL	0.00	0.00	0.00
PPM Total	0.00	0.00	0.00

The actual process spread is represented by 6 sigma.

Section 12

Qualified Laboratory Documentation

By Royal Charter

Certificate of Registration

QUALITY MANAGEMENT SYSTEM - IATF 16949:2016

This is to certify that:

TE Connectivity Automotive Hermosillo
Amp Amermex, S.A. de C.V.
Blvd. Industrial Norte #23 y Blvd. Solidaridad
Col. Parque Industrial Hermosillo
Hermosillo
Sonora
83118
Mexico

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

The Design and Manufacturing of electrical interconnecting devices.

For and on behalf of BSI:

Carlos Pitanga, Chief Operating Officer Assurance – Americas

BSI Certificate Number: 514458-005
IATF Number: 0336164

...making excellence a habit.™

Certification Date: 2018-09-28 Latest Issue: 2018-09-28 Expiry Date: 2021-09-27

Location	Registered Activities
TE Connectivity Automotive Hermosillo Amp Amermex, S.A. de C.V. Blvd. Industrial Norte #23 y Blvd. Solidaridad Col. Parque Industrial Hermosillo Hermosillo Sonora 83118 Mexico	Manufacture of electrical interconnecting devices. Including the following remote support functions: TE Connectivity Global Automotive Division Americas North 3800 Reidsville Road Winston-Salem, NC 27102 Process design, Purchasing, Sales, Testing, Product design TE Connectivity Global Automotive Division Americas North 20 Esna Park Drive Markham, Ontario L3R 1E1 Canada Process design, Testing, Product design TE Connectivity Global Automotive Division Americas North 719 Pegg Road Greensboro North Carolina 27409 USA Purchasing TE Connectivity Global Automotive Division Americas North 233 Burgess Road Greensboro North Carolina 27409 USA Purchasing TE Connectivity Global Automotive Division Americas North 900 Wilshire Boulevard Suite 150 Troy, MI 48084 Process design, Product design TE Connectivity Global Automotive Division Americas North Carretera Internacional, KM 1969 Guadalajara-Nogales Km 2 Empalme Sonora Mexico, 85340 Customer Service, Purchasing TE Connectivity Global Automotive Division Americas North 2100 Paxton Street Harrisburg Pennsylvania 17111 USA Testing

BSI Certificate Number: 514458-005

IATF Number: 0336164

Certification Date: 2018-09-28 Latest Issue: 2018-09-28 Expiry Date: 2021-09-27

Location	Registered Activities
	TE Connectivity Global Logistics Blvd. Industrial Norte #23 y Blvd. Solidaridad Col. Parque Industrial Hermosillo Hermosillo Sonora 83118 Mexico Warehousing, Distribution
	TE Connectivity Global Automotive Division Americas North 2901 Fulling Mill Road Middletown Pennsylvania 17057 USA Customer service, Process design, Testing, Product design
	TE Connectivity 3900 Reidsville Road Winston Salem North Carolina 27101 USA Distribution
	TE Connectivity 3920 Reidsville Road Winston Salem North Carolina 27101 USA Distribution

BSI Certificate Number: 514458-005

IATF Number: 0336164

Certification Date: 2018-09-28 Latest Issue: 2018-09-28 Expiry Date: 2021-09-27

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

Section 17

Records of Compliance with Customer-Specific Requirements

MDS Report
Substances of assemblies and materials

1. Company and Product Name

1.1 Supplier Data

Name ID	**Tyco Electronics GAD [913]**
DUNS Number:	**-**
Street/Postal Code:	**Amperestr. 12-14**
Nat./ZipCode/City:	**DE 64625 Bensheim**
Supplier Code:	**-**
Contact Person:	**IMDS Team (India) Engineering Services**
- Phone:	**-**
- Fax No.:	**-**
- E-Mail Address:	**imds@te.com**

1.2 Product Identification

Part/Item No.:	**2203459-1**
Description:	**Cover Assembly ,Wire Dress for 28 Postition Plug**
Report No.:	**-**
Date of Report:	**-**
Purchase Order No.:	**-**
Bill of Delivery No.:	**-**
Preliminary MDS:	**No**
IMDS ID / Version:	**473814715 / 8**
Node ID:	**870739098**
MDS Status (Change Date):	**Internally released (10/10/2019)**

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.:	**2203459-1**	Report No.:	**-**
Description:	**Cover Assembly ,Wire Dress for 28 Postition Plug**	IMDS ID / Version:	**473814715 / 8**
		Node ID:	**870739098**

Tree Level	Description Article Name Name Substance name	Part/Item No. Item- /Mat.-No. Material-No. CAS No.	IMDS ID / Version	Quantity	Weight [g]	Portion [%]	Portion (from - to) [%]	Classif. GADSL, SVHC	Parts Marking Recyclate (Indust./Consumer) Application [ID]
1	Cover Assembly ,□ ire Dress for 28 Postition Plug	2203459-1	473814715 / 8		9.3145				
├2	28P Sealed wire cover-Black	0-2203461-1	473802487 / 2	1	8.77				Yes
├3	PA66-GF35	1573375-3	1338320 / 5		8.77			5.1.a	No
├4	Further Additives, not to declare	system				2			

Tree Level	Description / Article Name / Name / Substance name	Part/Item No. / Item- /Mat.-No. / Material-No. / CAS No.	IMDS ID / Version	Quantity	Weight [g]	Portion [%]	Portion (from - to) [%]	Classif. / GADSL, SVHC	Parts Marking / Recyclate (Indust./Consumer) / Application [ID]
├4	GF-Fibre	-				35			
├4	Carbon black	1333-86-4				1			
├4	PA66	-				61.8			
├4	N,N□Diphenyl-p-phenylenediamine	74-31-7				0.2		D	
├2	28P Sealed (□ ire Dress - Lever) Cap - Red	2203335-1	473809031 / 6	1	0.5445				Yes
├3	PA66-GF35	2136455-1□1573155-6	692933554 / 4		0.5445			5.1.a	No
├4	PA66-GF35	2136455-1	662791334 / 2			97.5		5.1.a	
├5	Polyamid 6.6	32131-17-2				64.310345	63 - 65		
├5	GF-Fibre	-				35			
├5	Further Additives, not to declare	system				0.689655	0.1 - 1		
├4	PA6 MASTERBATCH (52-6324)	1573155-6	489798330 / 2			2.5	2 - 3	5.1.b	
├5	Zinc sulphide	1314-98-3				2.166667	2 - 3	D / P	
├5	2,9-Bis□4-(phenylazo)phenyl□anthra□2,1,9-def:6,5,10-d□e□f□diisoquin...	3049-71-6				11.166667	11 - 12		
├5	C.I. Solvent Red 149	71902-18-6				2.166667	2 - 3		
├5	Polyamid6	25038-54-4				78.333333	78 - 80		
├5	Further Additives, not to declare	system				6.166667	6 - 7		

This is an uncontrolled copy of a document created by IMDS. End of the report.

Section 18

Part Submission Warrant

TE Connectivity

PPAP North America Team

Part Submission Warrant

EPPAP:

Part Name: 28P Sealed GFx - Wire Dress Assembly | Cust. Part Number: 79Y3750

Shown on Drawing Number: C-2203459 | Org.Part Number: 2203459-1

Engineering Change Level: A | Dated: 18-Sep-2015

Additional Engineering Changes: N/A | Dated: N/A

Safety and/or Government Regulation: ☐ Yes ☑ No | Purchase Order No.: N/A | Weight (kg): 0.0093

Checking Aid Number: Not applicable | Checking Aid Engineering Change Level: N/A | Dated: N/A

ORGANIZATION MANUFACTURING INFORMATION

TE Connectivity Automotive Hermosillo
Organization Name and Supplier Code

Blvd. Industrial Norte #23 y Blvd. Solidaridad. Col. Parque Industrial Hermosillo
Street Address

Hermosillo	Sonora	83118	MX
City	Region	Postal Code	Country

CUSTOMER SUBMITTAL INFORMATION

Newark Electronics
Customer Name/Division

n/a
Buyer/Buyer Code

All Models
Application

MATERIALS REPORTING

Has customer-required Substance of Concern information been reported Submitted by IMDS or other customer format: ☑ Yes ☐ No ☐ NA

IMDS: 473814715 / 8

Are polymeric parts identified with appropriate ISO marking codes: ☑ Yes ☐ No ☐ NA

REASON FOR SUBMISSION (Check at least one)

- ☐ Initial submission
- ☐ Engineering Change(s)
- ☐ Tooling: Transfer, Replacement, Refurbishment, or additional
- ☐ Correction of Discrepancy
- ☐ Tooling Inactive than 1 year
- ☐ Change to Optional Construction or Material
- ☐ Sub-Supplier or Material Source Change
- ☐ Change in Part Processing
- ☐ Parts Produced at Additional Location
- ☑ Other - please specify

PCN P-19-018173

REQUESTED SUBMISSION LEVEL (Check one)

- ☐ Level 1 - warrant only (and for designated appearance items, an Appearance Approval Report) submitted to customer.
- ☐ Level 2 - warrant with product samples and limited supporting data submitted to customer.
- ☑ Level 3 - warrant with product samples and complete supporting data submitted to customer.
- ☐ Level 4 - warrant and other requirements as defined by customer.
- ☐ Level 5 - warrant with product samples and complete supporting data reviewed at supplier's manufacturing location.

SUBMISSION RESULTS

The results for ☑ dimensional measurement ☑ material and functional tests ☐ appearance criteria ☑ statistical process package

These results meet all design record requirements: ☑ Yes ☐ No (If No - Explanation Required)

Mold / Cavity / Production Process: Assembly / AM-9989/9990

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**. I also certify that documented evidence of such compliance is on file and is available for review. I have noted any deviations from this declaration below.

EXPLANATION/COMMENTS

Production Rate is TE Proprietary. PCN P-19-018173

Is each Customer Tool properly tagged and numbered: ☐ Yes ☐ No ☑ NA

Organization Authorized Signature: *Enrique Espinoza* | Date: 05/29/2020

Print Name: Enrique Espinoza | Phone No.: n/a | Fax: n/a

Title: PPAP Technician | Email: enrique.espinoza@te.com

FOR CUSTOMER USE ONLY (IF APPLICABLE)

PPAP warrant Disposition : ☐ Approved ☐ Rejected ☐ Other

Customer Signature: _____ Date: _____

Print Name: _____ Customer Tracking Number (optional): _____

Section 18a

Bulk Material Requirements

Not Applicable