Tale of Contents

PPAP Package for:

Nursan Kablo Donanimlari

(TE Connectivity Part Number: 2035360-2)

14/Oct/2021

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.

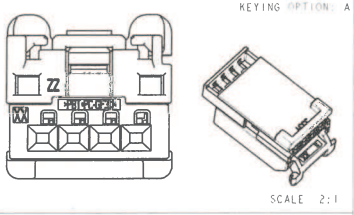
If a nondisclosure agreement HAS NOT been reached, certain documents deemed confidential by TE Connectivity will not be included in this PPAP package. These documents include but are not limited to the Design FMEA, the Process Flow Diagram, the Process FMEA and the Control Plan. These documents can be reviewed by you company but cannot be retained.

Section 1

Design Records

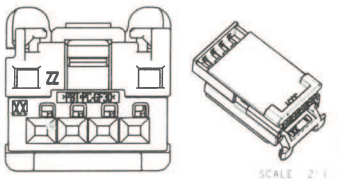
KEYING OPTIONS (SHOWN WITH CPA)

KEYING OPTION: A



SCALE 2:1

KEYING OPTION: B



SCALE 2:1

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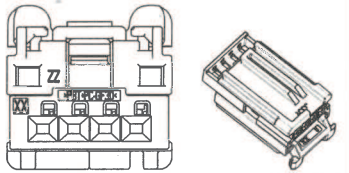
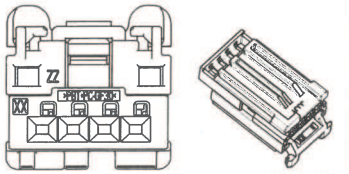
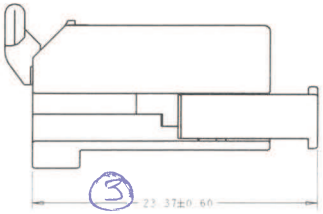


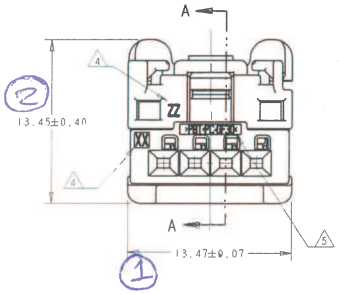
SCALE 2:1

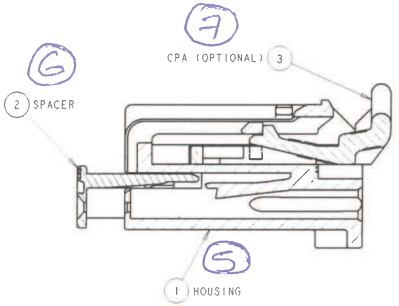
KEYING OPTION: D



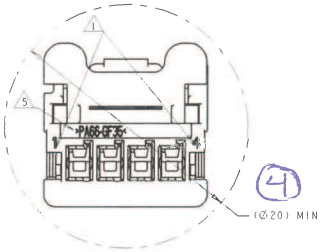
SCALE 2:1



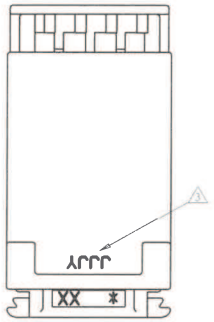


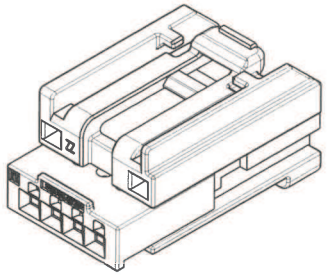


SECTION A-A



WORST CASE THRU CONDITION





1-2035360-0	2035360-9	2035360-8	2035360-7	2035360-6	2035360-5	2035360-4	2035360-3	2035360-2	2035360-1	ASSEMBLY PN			
1	-	1	-	-	-	-	-	1	-	CPA	>PBT-GF20<	RED	3
1	1	1	1	1	1	1	1	1	1	SPACER	>PBT+PC-GF35<	RED	2
1	1	-	-	-	-	-	-	-	-	HOUSING; KEY B	>PA66-GF35<	NATURAL	1
-	-	1	1	-	-	-	-	-	-	HOUSING; KEY D	>PA66-GF35<	BLACK	1
-	-	-	-	1	1	-	-	-	-	HOUSING; KEY C	>PA66-GF35<	BLACK	1
-	-	-	-	-	-	1	1	-	-	HOUSING; KEY B	>PA66-GF35<	BLACK	1
-	-	-	-	-	-	-	-	1	1	HOUSING; KEY A	>PA66-GF35<	BLACK	1
										DESCRIPTION	MATERIAL	COLOR	ITEM NO
QTY REQ'D PER ASSY										REVISION OF EACH ASSY NO (WHEN BLANK, USE DWG REVISION)			
										WEIGHT OF EACH ASSY NO (g)			

PARTS LIST

REVISIONS					
P	LTR	DESCRIPTION	DATE	DWN	APVD
	A1	REVISED PER ECO-12-013011	16JUL2012	DLD	DCM
	A2	REVISED PER ECO-15-011565	21AUG2015	DLD	DCM
	A3	REVISED PER ECO-17-009179	23JUN2017	DLD	DCM
	A4	REVISED PER ECO-19-000631	29JAN2019	JMS	CM

1. CIRCUIT IDENTIFICATION NUMBERS LOCATED AS SHOWN.
2. SPACER AND CPA (OPTIONAL) ARE SHIPPED IN PRE-ASSEMBLED POSITION
3. DATE CODE; FORMAT: JJJ = JULIAN DAY; Y = YEAR (4TH DIGIT).
4. MOLD CAVITY IDENTIFICATION.
5. MATERIAL IDENTIFICATION.
6. PACKING; CONNECTOR ASSEMBLIES BULK PACKAGED IN CARDBOARD BOX.
7. REFERENCE TE INSTRUCTION SHEET 408-32052

THIS DRAWING IS A CONTROLLED DOCUMENT

DIMENSIONS: mm

TOLERANCES UNLESS OTHERWISE SPECIFIED: 0 PLC ±; 1 PLC ±; 2 PLC ±; 3 PLC ±; 4 PLC ±; ANGLE ±

MATERIAL: SEE TABLE

FINISH

DWN: DPUMMING 29APR2012
CHK: MARTIN 29APR2012
APVD: MARTIN 30APR2012
PRODUCT SPEC: -
APPLICATION SPEC: -
WEIGHT: -

TE Connectivity

NAME: FEMALE CONNECTOR ASSEMBLY, 4 POSITION (1X4), UNSEALED, GENERATION Y

SIZE: A1 | CAGE CODE: 00779 | DRAWING NO: C-2035360 | RESTRICTED TO: -

CUSTOMER DRAWING | SCALE: 5:1 | SHEET 1 OF 1 | REV: A4

TE COPIA CONTROLLED

Digitally signed by Gladys Garcia
Date: 2021.06.10 16:46:34 -07'00'

Section 2

Engineering Change Documents

Not Applicable

Section 3

Customer Engineering Approval

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

Section 9

Dimensional Results

Production Part Approval

DIMENSIONAL TEST RESULTS

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.

Organization: TE Connectivity

Supplier/Vendor Code: N/A

INSPECTION FACILITY:

TE Connectivity Empalme Metrology lab

Part Number: 2035360-2

Part Name: FEMALE CONNECTOR ASSEMBLY 4 POSITION (1X4) UNSEALED GENERATION Y

Design Record Change Level: C-2035360 REV. A4

Engineering Change Documents: N/A

Folio: 56096 Page ___1___ of ___1___

Item	Dim./Spec.	Spec. / Limits tol +	Spec. / Limits tol -	Units	Organization Measurement Results (Data) SAMPLE 1	SAMPLE 2	SAMPLE 3	SAMPLE 4	SAMPLE 5	SAMPLE 6	Ok	Not Ok	Instrument # ID
1	13.47	0.07	0.07	mm.	13.497	13.484	13.493	13.492	13.484	13.497	✔		LMMC-010
2	13.45	0.40	0.40	mm.	13.425	13.455	13.446	13.460	13.442	13.448	✔		LMMC-010
3	23.37	0.60	0.60	mm.	23.243	23.267	23.254	23.257	23.261	23.270	✔		LMMC-010
4	20	MINIMUM		mm.	OK	OK	OK	OK	OK	OK	✔		LMMI-010
5	HOUSING			visual	OK	OK	OK	OK	OK	OK	✔		
6	SPACER			visual	OK	OK	OK	OK	OK	OK	✔		
7	CPA (OPTIONAL)			visual	OK	OK	OK	OK	OK	OK	✔		
	NOTES:												
1	CIRCUIT IDENTIFICATION NUMBERS LOCATED AS SHOWN.				OK	OK	OK	OK	OK	OK	✔		
2	SPACER AND CPA (OPTIONAL) ARE SHIPPED IN PRE-ASSEMBLED POSITION.				OK	OK	OK	OK	OK	OK	✔		
3	DATE CODE; FORMAT: JJJ = JULIAN DAY; Y = YEAR (4TH DIGIT).				OK	OK	OK	OK	OK	OK	✔		
4	MOLD CAVITY IDENTIFICATION.				OK	OK	OK	OK	OK	OK	✔		
5	MATERIAL IDENTIFICATION.				OK	OK	OK	OK	OK	OK	✔		
6	PACKING: CONNECTOR ASSEMBLIES BULK PACKAGED IN CARDBARD BOX.				NOTED PER APQP TEAM						✔		
7	REFERENCE TE INSTRUCTION SHEET 408-32052.				NOTED PER APQP TEAM						✔		

CONCLUSION:

TOTAL # OF FEATURES	24
LESS BASIC DIMENSIONS	0
LESS REFERENCE DIMENSIONS	0
REPORTED DIMENSIONS	24
# DIMENSIONS IN TOLERANCE	24
# DIMENSIONS OUT OF TOLERANCE	0
% DIMENSION IN TOLERANCE	100.00 %
% DIMENSION OUT OF TOLERANCE	0.00 %

SIGNATURE	TITLE	DATE
OMAR SANCHEZ	Metrology Chief	JUN-19-2021

Section 10

Material, Performance Test Results

Certificate of Analysis

Certificate Type:
Insp. certificate "3.1" EN 10204
Date printed: MAY/03/2021

TE CONNECTIVITY
HERMASILLO X46
8350 E OLD VAIL ROAD
Arizona
85747
TUCSON
USA

Shipped from details:
SABIC INNOVATIVE PLASTICS US LLC
1 LEXAN LN
47620-0000
MT. VERNON
USA

Material Number	22021926
Material Description	508R-RD3E204-OCT-00-00-00
Material Group	VALOX™ resin
Batch Number	0017171150
Manufacturing Plant	Mt. Vernon
Manufacturing Date	FEB/14/2021
Sales Order	3626420
Delivery	803621572
Customer PO Number	2715139822
Customer Material Number	1-703566-3

Characteristic	Unit	Value	Lower Limit	Upper Limit	Inspection method
GLASS CONTENT	%	28.8	28.0	32.0	ASTM D5630
METAL CONTAMINATION	-	Pass	-	-	SABIC
MVR 250°C @2.16KG	CC/10’	6.0	6.0	9.7	ISO 1133
SPECIFIC GRAVITY		***1.48000***	***1.470***	***1.540***	***ASTM D792***
TENSILE MODULUS	***MPa***	***9472.00***	***8154.0***		***ISO 527***
TENSILE STRENGTH @BREAK	***MPa***	***133.400***	***95.0***		***ISO 527***
HDT FW 1.80MPA 4.0MM	***°C***	***171.800***	***145.0***		***ISO 75-1,2***
DENSITY	***g/cm3***	***1.48000***	***1.470***	***1.530***	***ISO 1183***
CHARPY NOTCH 23°C	***kJ/m2***	***11.6300***	***10.0***		***ISO 179***

The results in bold/italics are audit tests, latest done on 07/31/2020.
It is hereby stated that the material above has been found in accordance with the conditions and requirements of our standard/agreed quality specification.

General Note : This document is computer generated and does not require a signature. SABIC documents the authorized representatives and their independence necessary to release its products, according to the regulatory requirements.

Certificate of Analysis

Certificate Type:
Insp. certificate "3.1" EN 10204
Date printed: MAY/03/2021

TE CONNECTIVITY HERMASILLO X46 8350 E OLD VAIL ROAD Arizona 85747 TUCSON USA	**Shipped from details:** SABIC INNOVATIVE PLASTICS US LLC 1 LEXAN LN 47620-0000 MT. VERNON USA

Contact information can be found on www.SABIC.com.

DISCLAIMER: THE MATERIALS, PRODUCTS AND SERVICES OF SAUDI BASIC INDUSTRIES CORPORATION (SABIC) OR ITS SUBSIDIARIES OR AFFILIATES ("SELLER") ARE SOLD SUBJECT TO SELLER'S STANDARD CONDITIONS OF SALE, WHICH ARE AVAILABLE UPON REQUEST. INFORMATION AND RECOMMENDATIONS CONTAINED IN THIS DOCUMENT ARE GIVEN IN GOOD FAITH. HOWEVER, SELLER MAKES NO EXPRESS OR IMPLIED REPRESENTATION, WARRANTY OR GUARANTEE (i) THAT ANY RESULTS DESCRIBED IN THIS DOCUMENT WILL BE OBTAINED UNDER END-USE CONDITIONS, OR (ii) AS TO THE EFFECTIVENESS OR SAFETY OF ANY DESIGN OR APPLICATION INCORPORATING SELLER'S MATERIALS, PRODUCTS, SERVICES OR RECOMMENDATIONS. UNLESS OTHERWISE PROVIDED IN SELLER'S STANDARD CONDITIONS OF SALE, SELLER SHALL NOT BE RESPONSIBLE FOR ANY LOSS RESULTING FROM ANY USE OF ITS MATERIALS, PRODUCTS, SERVICES OR RECOMMENDATIONS DESCRIBED IN THIS DOCUMENT. Each user is responsible for making its own determination as to the suitability of Seller's materials, products, services or recommendations for the user's particular use through appropriate end-use and other testing and analysis. Nothing in any document or oral statement shall be deemed to alter or waive any provision of Seller's Standard Conditions of Sale or this Disclaimer, unless it is specifically agreed to in a writing signed by Seller. Statements by Seller concerning a possible use of any material, product, service or design do not, are not intended to, and should not be construed to grant any license under any patent or other intellectual property right of Seller or as a recommendation for the use of any material, product, service or design in a manner that infringes any patent or other intellectual property right.
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*** End ***

BASF

We create chemistry

Certificate of Analysis

BASF MEXICANA SA CV

Please note that the certificates of analysis are also conveniently available on your BASF online portal.

MAQUILAS TETAKAWI SA DE CV
TE CONNECTIVITY
CARRET INT KM 1969

85340 EMPALME
SONORA
Mexico

2021-08-02

BASF CORPORATION

Certificate No 9444

Inspection Certificate 3.1 according to EN 10204

ULTRAMID® A3EG7 BLACK 23189
POLYAMIDE
726KG FIBREBOARD IBC
Purchase Order/Customer Product#
2716998115
702661-9

Material	52568990
Order	0118273350 000010
Delivery	0145731756 000010
Lot	WF1181093
Lot/Qty	14405.004 LB
Total	14405.004 LB
Transport	M-49/847-EU-9

Characteristic/Method	UOM	Result	Specification
Ash / Filler Content ASTM5630/ISO3451	%	34.814	33.000-37.000
Moisture Content ASTM D6869 / ISO 15512B	%	0.08	<=0.15
Viscosity Number for Polyamides ISO 307	ml/g	144	130-160

Manufacturing Date: Jun-30-2021

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

THIS CERTIFICATE OF ANALYSIS HAS BEEN PRODUCED ELECTRONICALLY AND IS VALID WITHOUT A SIGNATURE.

The aforementioned data shall constitute the agreed contractual quality of the product at the time of passing of risk. The data are controlled at regular intervals as part of our quality assurance program. Neither these data nor the properties of product specimens shall imply any legally binding guarantee of certain properties or of fitness for a specific purpose. No liability of ours can be derived therefrom.

Section 11

Initial Process Studies

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
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 Officer Assurance – Americas

BSI Certificate Number: 514458-003
IATF Number: 0315420

...making excellence a habit.™

Certification Date: 2018-07-11 Latest Issue: 2020-10-27 Expiry Date: 2022-01-09

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.

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	Registered Activities
TE Connectivity Global Automotive Division Americas North Carretera Internacional, KM 1969 Guadalajara-Nogales Km 2 Empalme Sonora 85340 Mexico	Manufacture of interconnecting devices. Including the following remote support functions: TE Connectivity Global Automotive Division Americas North 3800 Reidsville Road Winston-Salem North Carolina 27102 USA Calibration, Contract review, Product design, Purchasing, Sales, Supplier management, Testing TE Connectivity Global Automotive Division Americas North 20 Esna Park Drive Markham Ontario L3R 1E1 Canada Product design, Testing TE Connectivity Global Automotive Division Americas North 2901 Fulling Mill Road Middletown Pennsylvania 17057 USA Customer service, Product design, Testing TE Connectivity Global Automotive Division Americas North 900 Wilshire Boulevard Suite 150 Troy Michigan 48084 USA Product design

BSI Certificate Number: 514458-003

IATF Number: 0315420

Certification Date: 2018-07-11 Latest Issue: 2020-10-27 Expiry Date: 2022-01-09

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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	Registered Activities
	TE Connectivity Global Automotive Division Americas North 2100 Paxton Street Harrisburg Pennsylvania 17111 USA Testing
	TE Connectivity North Carolina Distribution Center 8000 Piedmont Triad Parkway Greensboro North Carolina 27409 USA Distribution, Logistics, Warehousing
	TE Connectivity Global Automotive Division Americas North 32 Celerity Wagon St. El Paso Texas 79906 USA Distribution, Logistics, Packaging, Warehousing
	TE Connectivity West Coast Distribution Center 1643 South Parco Avenue Ontario California 91761 USA Distribution, Logistics, Packaging, Warehousing
	TE Connectivity Global Logistics Blvd. Industrial Norte #23 y Blvd. Solidaridad Col. Parque Industrial Hermosillo Hermosillo Sonora 83118 Mexico Warehousing, Distribution

BSI Certificate Number: 514458-003

IATF Number: 0315420

Certification Date: 2018-07-11 Latest Issue: 2020-10-27 Expiry Date: 2022-01-09

This certificate remains the property of BSI and shall be returned immediately upon request.
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Americas Headquarters: BSI Group America Inc., 12950 Worldgate Drive, Suite 800, Herndon, VA 20170-6007 USA
A Member of the BSI Group of Companies.

CERTIFICATE OF ACCREDITATION

The ANSI National Accreditation Board

Hereby attests that

TE Connectivity - Empalme
Carretera Internacional Km. 1969, Guad-Nog. Km.2
Sonora, C.P. 85340, Mexico

Fulfills the requirements of

ISO/IEC 17025:2017

In the field of

CALIBRATION, DIMENSIONAL MEASUREMENT AND TESTING

This certificate is valid only when accompanied by a current scope of accreditation document.
The current scope of accreditation can be verified at www.anab.org.

R. Douglas Leonard Jr., VP, PILR SBU

Expiry Date: 03 May 2023
Certificate Number: ACT-1173

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

TE Connectivity - Empalme

Carretera Internacional Km.1969, Guad-Nog. km 2
Sonora, C.P. 85340, Mexico
Omar Sanchez Islas +52-622-225-1095

CALIBRATION, DIMENSIONAL MEASUREMENT AND TESTING

Valid to: **May 3, 2023** Certificate Number: **ACT-1173**

CALIBRATION

Length – Dimensional Metrology

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
Calipers [2]	Up to 200 mm	(7.7 + 3.3*L*) µm	Gage Blocks, Ring Gages per Work Instruction # AEW005T-LB, JIS B 7507:1993, Tyco Spec 117-9 for Caliper, Vernier, Dial and Digital.
Dial Test Indicator (Lever-type)	Up to 1 mm	1.6 µm	Height Master per Work Instruction # AEW004T-LB, JIS B 7533:1990, Tyco Spec 117-14 for Dial Indicator, Electronic and Manual.
Digital Height Indicator [2] (Travel-type)	Up to 50 mm	(3.5 + 6*L*) µm	Gage Blocks per Work Instruction # AEW008T-LB, Tyco Spec 117-14 for Dial Indicator, Electronic and Manual.
Granite Surface Plates [2] Local Area Flatness Only	(0.55 to 1.83) m*DL*	5.9 µm	Mahr Repeat-o-Meter® with Precision Dial Indicator per Work Instruction # AEW002T-LB, JIS B 7513-1992, ISO 8512-2:1990.

Length – Dimensional Metrology

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
Micrometers	Up to 25.4 mm	0.9 µm	Gage Blocks per Work Instruction # AEW006T-LB, JIS B 7502:1994, Tyco Spec 117-5 for Micrometer, Inch/Metric, Outside, Blade and Flange.
Optical Comparators [2] X-Y Axis	Up to 300 mm	(3.5 + 6*L*) µm	Glass Scale per Work Instruction # AEW007T-LB, JIS B 7184:1999, Tyco Spec 117-19 for Optical Comparators.
Video Comparators [2] X-Y Axis Z Axis	 Up to 300 mm Up to 100 mm	 (3.8 + 4.7*L*) µm (1.7 + 4.7*L*) µm	Glass Scale, Gage Blocks per Work Instruction # AEW007T-LB, JIS B 7184:1999, for Video Comparators.
Steel Measuring Tapes [2]	Up to 5 m	(0.41 + 0.65*L*) mm	Digital Length Measuring Scale per Work Instruction # AEW001T-LB, JIS B 7512:2005, Tyco Spec 117-95 for Calibration Steel Measuring Tapes.
Steel Rules [2]	Up to 1 200 mm	(0.41 + 0.48*L*) mm	Digital Length Measuring Scale per Work Instruction # AEW001T-LB, JIS B 7516:2005, Tyco Spec 117-94 for Calibration Steel Measuring Tapes.

Mass and Mass Related

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
Force Gages (Tension and Compression)	Up to 200 lbf	0.004 1 % of reading + 0.091 lbf	Dead Weights per Work Instruction # AEW003T-LB, Tyco Spec 117-70 for Force Gages.
Scales (0.01 g resolution)	Up to 4 kg	2 % of reading + 9 mg	Master Weights per Work Instruction # AEW015T-LB, NOM-010-SCFI-1994.

DIMENSIONAL MEASUREMENT

1 Dimensional

Specific Tests and / or Properties Measured	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method and/or Equipment
1D Length Measurements [2]	Up to 50 mm	$(7 + 0.013L)$ µm	Digital Height Indicator; ASME Y14.5M, Engineering Drawings, Equipment Manuals.
	Up to 0.2 mm	$(0.15 + 1.5L)$ µm	Dial Test Indicator; ASME Y14.5M, Engineering Drawings, Equipment Manuals.
	Up to 4.8 m	$(0.91 + 1.9L)$ µm	Steel Measuring Tapes; ASME Y14.5M, Engineering Drawings, Equipment Manuals.
	Up to 1 220 mm	$(0.91 + 1.6L)$ µm	Steel Rule; ASME Y14.5M, Engineering Drawings, Equipment Manuals.
	Up to 200 mm	7.7 µm	Calipers; ASME Y14.5M, Engineering Drawings, Equipment Manuals.
	Up to 25.4 mm	0.8 µm	Micrometers; ASME Y14.5M, Engineering Drawings, Equipment Manuals.

3 Dimensional

Specific Tests and / or Properties Measured	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method and/or Equipment
3D Measurements [2]	X Axis: Up to 210 mm Y Axis: Up to 215 mm Z Axis: up to 100 mm	(9.2 + 40*L*) µm (9.2 + 40*L*) µm (11 + 11*L*) µm	Vision Systems; ASME Y14.5M, Engineering Drawings, Equipment Manuals.

TESTING

Mechanical

Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Equipment
Force Up to 200 lbf	Equipment Manual	Wiring Harness, Plastic and Metal Automotive Components	Force Gage
Mass Up to 4 kg	Equipment Manual	Plastic and Metal Automotive Components	Scales
Moisture Content Up to 40 g, (100 to 150) ºC	Work Instruction # AEW021T-LB, Equipment Manual	Plastic Automotive Components and Raw Materials	Ohaus MB 45 Moisture Analyzer
Melt Flow Rate	Work Instruction # AEW021T-LB based on ASTM D1238, Equipment Manual	Plastic Automotive Components and Raw Materials	Extrusion Plastometer, Oven

Calibration and Measurement Capability (CMC) is expressed in terms of the measurement parameter, measurement range, expanded uncertainty of measurement and reference standard, method, and/or equipment. The expanded uncertainty of measurement is expressed as the standard uncertainty of the measurement multiplied by a coverage factor of 2 (k=2), corresponding to a confidence level of approximately 95%.

Notes:

1. On-site calibration service is available for this parameter, since on-site conditions are typically more variable than those in the laboratory, larger measurement uncertainties are expected on-site than what is reported on the accredited scope.
2. L = length in millimeters or meters, depending on measurand unit of measure; DL = diagonal length.
3. This scope is formatted as part of a single document including Certificate of Accreditation No. ACT-1173.

R. Douglas Leonard Jr., VP, PILR SBU

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

This report is for internal Automotive industry use only. Distribution to non-Automotive clients is a violation of the Terms of Use, and is not permitted unless a written permission was given by DXC Technology. Parsing is not allowed.

1. Company and Product Name

1.1 Supplier Data

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

1.2 Product Identification

Part/Item No.:	**2035360-2**
Description:	**Female Connector Assembly, 4 Posn (1X4), Unsealed, Generation Y**
Report No.:	**-**
Date of Report:	**-**
Purchase Order No.:	**-**
Bill of Delivery No.:	**-**
Preliminary MDS:	**No**
Multi Sourced:	**No**
IMDS ID / Version:	**287992312 / 3**
Node ID:	**1024366690**
MDS Status (Change Date):	**Internally released (05/24/2021)**

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. Characteri□ation of the Component

Part/Item No.:	**2035360-2**	Report No.:	**-**
Description:	**Female Connector Assembly, 4 Posn (1X4), Unsealed, Generation Y**	IMDS ID / Version:	**287992312 / 3**
		Node ID:	**1024366690**

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	Female Connector Assembly, 4 Posn (1□4), Unsealed, Generation	2035360-2	287992312 / 3		2.2129				
├2	Y Female Housing, 4 Posn (1□4),	0-2035359-1	284287392 / 3	1	1.6427				Yes
├3	GET, Unsealed, Generation Y-Black	702661-	70521492 / 3		1.6427			5.1.a	No

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	Further Additives, not to declare	system				0.5			
4	GF-Fibre	-				35			
4	Carbon black	1333-86-4				0.5			
4	PA66	-				64			
2	Female Spacer 4 Posn (1□4), GET, Generation Y-Red	0-2035358-1	284287292 / 5	1	0.2542				Yes
3	PBT□PC-GF30	1-703566-3	688341556 / 1		0.2542			5.1.a	No
4	PBT□PC	-				67.142857	60 - 70		
4	GF-Fibre	-				28.571429	25 - 30		
4	Further Additives, not to declare	system				2.142857	0 - 3		
4	Pigment portion, not to declare	system				2.142857	0 - 3		
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	-				20			
5	Further Additives, not to declare	system				1			
5	PBT	-				79			
4	PE Colour Masterbatch	0-0702998-5	174083055 / 4			2.5	2 - 3	5.1.b	
5	PE-LD	-				70			
5	Pigment portion, not to declare	system				10			

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]
5	C.I. Solvent Red 135	20749-68-2				10			
5	Chrome antimony titanium buff rutile	68186-90-3				10			

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

Legend

Multi Sourced Component

Section 18

Part Submission Warrant

Part Submission Warrant

Part Name: 1X4 GENERATION Y ASSY KEYA CPA
Cust. Part Number: 2035360-2
Shown on Drawing No.: C-2035360
Org. Part Number: 2035360-2
Engineering Change Level: A4
Dated: Jan 29, 2019
Additional Engineering Changes: N / A
Dated: N / A
Safety and/or Government Regulation: ☐ Yes ☑ No
Purchase Order No.: N / A
Weight (kg): 0.0022
Checking Aid Number: N / A
Checking Aid Engineering Change Level: N / A
Dated: N / A

ORGANIZATION MANUFACTURING INFORMATION

TE Connectivity/ 588115092
Supplier Name & Supplier/Vendor Code

Carretera Int. Km. 1969 Guadalajara-Nogales Km. 2
Street Address

Empalme	Sonora	85340	México
City	Region	Postal Code	Country

CUSTOMER SUBMITTAL INFORMATION

Nursan Kablo Donanimlari
Customer Name/Division

Not provided
Buyer/Buyer Code

Various
Application

MATERIALS REPORTING

Reporting of all materials, not just Substances of Concern, may be required by certain OEMs or other customers.
Has customer-required Substances of Concern information been reported? ☑ Yes ☐ No

Submitted by IMDS or other customer format: 287992312 / 3

Are polymeric parts identified with appropriate ISO marking codes? ☑ Yes ☐ No ☐ N/A

REASON FOR SUBMISSION

- ☑ 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

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 measurements ☑ material and functional tests ☐ appearance criteria ☐ statistical process package
These results meet all design record requirements: ☑ YES ☐ NO (If NO""C-Explanation Required)
Mold / Cavity / Production Process: Assembly Process

DECLARATION

I affirm that the samples represented by this warrant are representative or our parts, which were made by a process that meets all Production Part Approval Process Manual 4th Edition Requirements. I further affirm the these samples were produced at a production rate of TE Property /24 hours.
I also certify that the documented evidence of such compliance is on file and available for review. I have noted any deviation from the declaration below.

EXPLANATION/COMMENTS: ePPAP# 172833. Rate is TE Property.

Is each Customer Tool properly tagged and numbered ☐ Yes ☐ No ☑ N/A

Organization Authorized Signature: Julia Avilés Date: 14-Oct-2021

Print Name: Julia Avilés Phone No.: +52 (662) 500 36 80 Fax No.: N/A

Title: PPAP Technician E-mail: julia.avilez@te.com

FOR CUSTOMER USE ONLY (IF APPLICABLE)

Part warrant Disposition: ☐ Approved ☐ Rejected ☐ Other

Customer Signature: Date:

Print Name: Customer Tracking Number (optional):

Section 18a

Bulk Material Requirements

Not Applicable