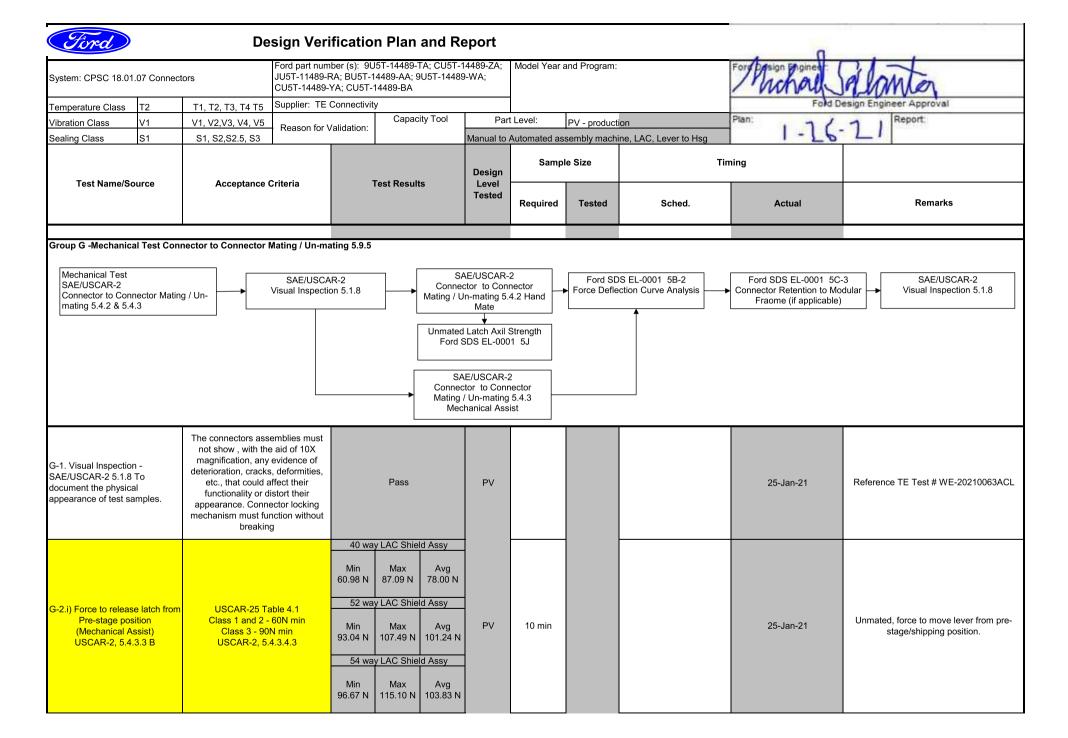


Part Name Shield Assembly, 54 POSN, 0.64mm BLK	Cust. Part Number 1924337-1							
Shown on Drawing Number C-1924337	Org.Part Number 1924337-1							
Engineering Change Level A3	Dated 05/01/2016							
Additional Engineering Changes /// N/A	Dated <i>N/A</i>							
Safety and/or Government Regulation	Purchase Order No. N/A Weight (kg) 0.0083							
Checking Aid Number N/A Checking Aid Engineering Cha	ange Level N/A Dated N/A							
ORGANIZATION MANUFACTURING INFORMATION	CUSTOMER SUBMITTAL INFORMATION							
TE Connectivity Empalme /999103179	Nursan Otomotiv Ltd.							
Organization Name and Supplier Code	Customer Name/Division							
Carretera Int, KM 1969, Guadalajara-Nogales Km 2 Street Address	N/A Buyer/Buyer Code							
Empalme n/a 85340 Mexico	All Models							
City Region Postal Code Country	Application							
MATERIALS REPORTING Has customer-required Substance of Concern information been reported Submitted by IMDS or other customer format 745	☑ Yes □ No □ n/a 556336 / 10							
Are polymeric parts identified with appropriate ISO marking codes? REASON FOR SUBMISSION (Check at least one)	□ Yes □ No □ n/a							
REASON FOR SUBMISSION (Check at least one) ☑ Initial submission ☐ Change to Optional Construction or Material ☐ Engineering Change(s) ☐ Sub-Supplier or Material Source Change ☐ Tooling: Transfer, Replacement, Refurbishment, or additional ☐ Change in Part Processing ☐ Correction of Discrepancy ☐ Parts Produced at Additional Location ☐ Tooling Inactive > than 1 year ☐ Other - please specify								
REQUESTED SUBMISSION LEVEL (Check one) Level 1 - Warrant only (and for designated appearance items, an Appear Level 2 - Warrant with product samples and limited supporting data submited supporting data results on supporting data results for ☑ dimensional measurement ☑ material and function These results meet all design record requirements: ☑ Yes ☐ Note Mold / Cavity / Production Process Assembly DECLARATION I affirm that the samples represented by this warrant are representative of our part Approval Process Manual 4th Edition Requirements. I further affirm that these samples certify that documented evidence of such compliance is on file and is available thave noted any deviations from this declaration below.	nitted to customer. ubmitted to customer. uviewed at supplier's manufacturing location. nal tests appearance criteria statistical process packag o (If "No" - Explanation Required) rts, which were made by a process that meets all Production Part mples were produced at the production rate of / hours							
EXPLANATION/COMMENTS								
Is each Customer Tool properly tagged and numbered?	□ No ☑ N/A							
Organization Authorized Signature Targe Passareiro	Date							
Print Name Jorge Passareiro Phone No. (+3	51)266248624 Fax <u>n/a</u>							
Title Quality Engineer Email jorg	e.passareiro@te.com							
FOR CUSTOMER USE ONLY PPAP Warrant Disposition : Approved Approved Otto	(IF APPLICABLE) her							

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М	81
H.	
	ж
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ĸ.	-200

ENGINEERING SAMPLE EVALUATION REPORT

PART NAME:		PART NO.: 9U5T-14489-TA; CU5T-14489-ZA; JU5T-11489-RA; BU5T-14489- AA; 9U5T-14489-WA; CU5T-14489-YA; CU5T-14489-BA	.ZA; JU5T-11489-RA; BU5T-14489- J5T-14489-BA
		CHANGE TYPE:	CHECK APPLICABLE:
	CURRENT MANUFACTURING SITE:	TOOL MOVE:	
CIIDMITTED DV. CUDIS SCHAID	Empalme, MX	PROCESS CHANGE:	×
SUDMILLED DI: CHRIS SCHWILD	FUTURE MANUFACTURING SITE:	MATERIAL/MATERIAL SUPPLIER CHANGE:	
	Empalme, MX	CAPACITY TOOL:	
SUPPLIER: TE CONNECTIVITY		DATE SUBMITTED: 1/26/2021	MADE TO DRAWING DATED:
CHANGE DETAIL S:			
In order to improve the quality of product shipped to customers and meet the increasing demand of the LAC Shield Assemblies, TE Connectivity has brought online an automated assembly machine. This machine installs the lever to the shield housing and then 100% inspects the product for proper lever position. Previous assembly method was a manual process. This affects the 40 way, 52 way and 54 way Generation Y LAC Shield Assemblies. Ford part numbers: 9U5T-14489-ZA; JU5T-11489-RA; BU5T-14489-AA; 9U5T-14489-WA; CU5T-14489-YA; CU5T-14489-BA (TE part numbers: 2098633-1, 1924346-1, 1924346-3, 1924337-2, 1924337-3 & 1-1924337-3)	pped to customers and meet the increasing demand of the LAC Shiel his machine installs the lever to the shield housing and then 100% in Previous assembly method was a manual process. y Generation Y LAC Shield Assemblies. Ford part numbers: 9U5T-14BU5T-14489-AA; 9U5T-14489-WA; CU5T-14489-YA; CU5T-14489-BA 2098633-1, 1924346-1, 1924346-3, 1924337-1, 1924337-2, 1924337	ality of product shipped to customers and meet the increasing demand of the LAC Shield Assemblies, TE Connectivity has brought embly machine. This machine installs the lever to the shield housing and then 100% inspects the product for proper lever position. Previous assembly method was a manual process. 52 way and 54 way Generation Y LAC Shield Assemblies. Ford part numbers: 9U5T-14489-TA; CU5T-14489-ZA; JU5T-11489-RA; BU5T-14489-AA; 9U5T-14489-WA; CU5T-14489-YA; CU5T-14489-BA (TE part numbers: 2098633-1, 1924346-1, 1924346-3, 1924337-1, 1924337-2, 1924337-3 & 1-1924337-3)	s, TE Connectivity has brought oduct for proper lever position. T-14489-ZA; JU5T-11489-RA; 77-3)
APPROVED: REJECTED: IDENTIFY WIT	PRODUCT ENGINEERING SIGNATURE: MICHOLO MANAGES IDENTIFY WITH \$\times\$ REMARKS AFFECTING PRODUCT ENGINEERING CRITICAL REQUIREMENTS	Man Less REQUIREMENTS	DATY-26-21
*By signing this document, you state that you have verified the physical part/s with the drawing/s and agree with key dimensional data, notes and appearance.	have verified the physical part/s with the	drawing/s and agree with key dimensional	data, notes and appearance.



Revised February 17, 2020 FAP03-149

Ford	<u> </u>	De	esign Verificat	ion Plan and R	 Report				- Land	
System: CPSC 18.0	1.07 Conne		Ford part number (s):	9U5T-14489-TA; CU5T- iT-14489-AA; 9U5T-1448	- Γ-14489-ZA;	Model Year ε	and Program:		Port Asign France	allanter
Temperature Class	T2	T1, T2, T3, T4 T5	Supplier: TE Connect	ivity		1			Fold D	Pesign Engineer Approval
Vibration Class	V1	V1, V2,V3, V4, V5	Reason for Validation	Capacity Tool	Par	rt Level:	PV - producti	ion	Pian: 1 7 (.	- 1 Report:
Sealing Class	S1	S1, S2,S2.5, S3			Manual to	Automated as	sembly machi	ine, LAC, Lever to Hsg	1-10	
Test Name/Source		A	Outherin	T. A. D No.	Design	Sampl	le Size	Tir	ming	
		Acceptance (Sriteria	Test Results	Level Tested	Required	Tested	Sched.	Actual	Remarks
G-5. Visual Inspection - SAE/USCAR-2 5.1.8 To document the physical appearance of test samples. not show magnificat deterioration etc., tha function appearanc mechanism		The connectors ass not show, with the magnification, any deterioration, cracks etc., that could a functionality or d appearance. Connectanism must fur	n the aid of 10X any evidence of acks, deformities, ald affect their pro distort their annector locking t function without		PV				25-Jan-21	
				Test	Part	Invent	tory P	age		
			Mala Ca	anaatar Taat	<u> </u>			Гот	mala Cannaata	Too!

	Male Connector Test	Female Connector Test
Terminal Test Part Numbers		
Seal Test Part Numbers		
Clip/Cover etc. Test Part Numbers		
Mating Device Used Part Numbers		
Terminal Test Part Numbers		FAP03-149

Ford	Design Verification Plan and Report											
System: CPSC 18.01.07 Connectors				RA; BU5T-1	J5T-14489-TA; CU5T- ⁻ I4489-AA; 9U5T-1448! 14489-BA		Model Year a	and Program:		Ford pasign Engine	allanter	
Temperature Class T2 T1, T2, T3, T4 T5			Supplier: TE	Connectivit	у					Fold D	esign Engineer Approval	
Vibration Class	V1	V1, V2,V3, V4, V5 Reason for Validation: Capacity Tool Part Level:				PV - producti	ion	Plan:	1 Report:			
Sealing Class	S1	S1, S2,S2.5, S3	TROUSON TOT V	undation.		Manual to	Automated as	sembly machi	ine, LAC, Lever to Hsg	1- 1-		
		Acceptance Criteria				Design		le Size		ning		
Test Name/Source					Test Results Level Tested		Required	Tested	Sched.	Actual	Remarks	
Connector Test Part Numbers										39-TA; 9U5T U5T-14489	Г-14489-WA; -BA	
Wire Gauge a												

Revised February 17, 2020 FAP03-149



Section 9 Dimensional Results

AAF214, Rev. D, 23-Jun-2017



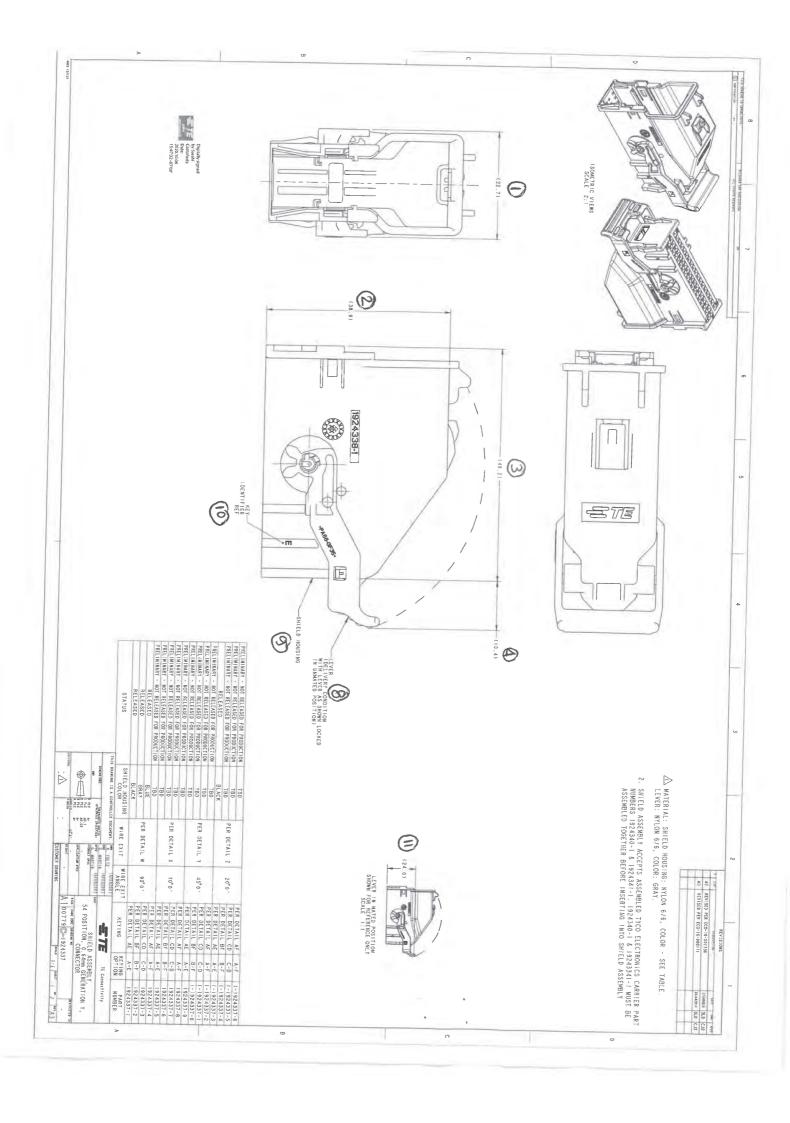
Production Part Approval

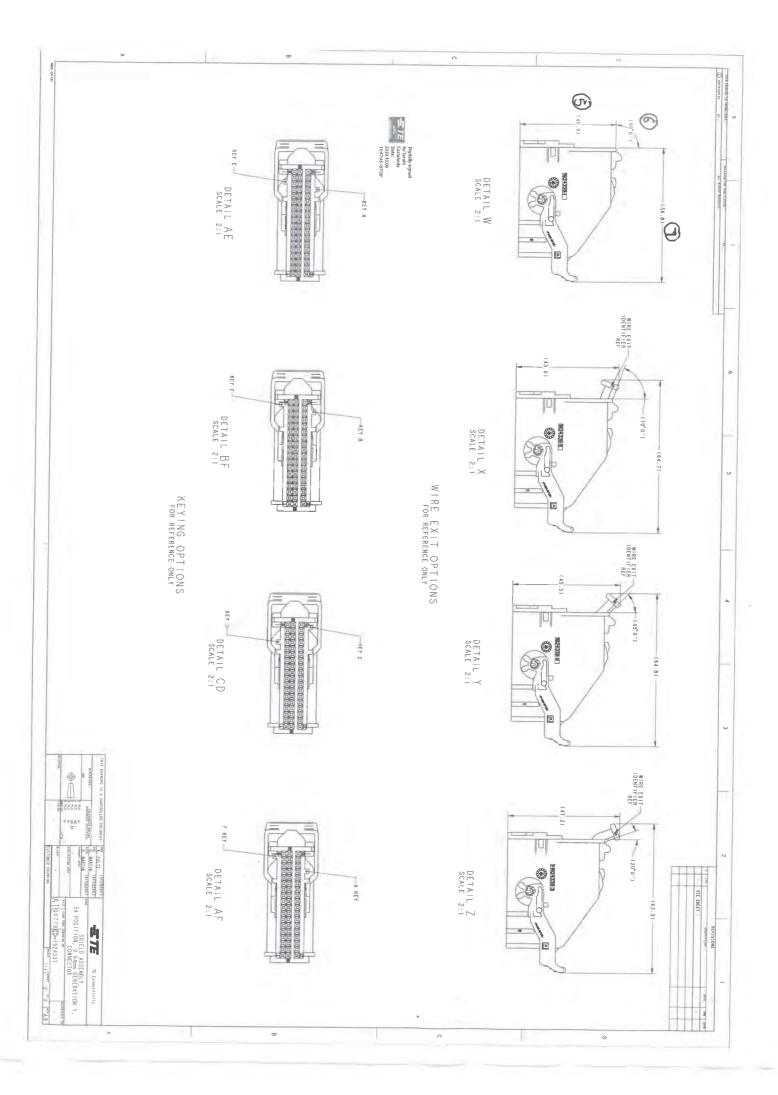


TE Connectivity-Empalme is accredited by ANSI-ASQ National Accreditation Board for ISO/IEC 17025 under a defined calibration and/or testing scope.

DIMENSIONAL TEST RESULTS

Organization: TE Connectivity					Part Number: 1924337-1								
Supplier/Vendor Code:					Part Name: SHIELD ASSEMBLY , 54 POSITION , 0.64 mm GENERATION Y, CONNECTOR								
INSPECT	TION FACILITY:		Design Red	ord Change	Level:		DWG.	C-192433	37	REV.	A3		
TE Connectivity Empalme Metrology lab					Engineering	Engineering Change Documents: N/A							
12 001	moonvity Empa	u ology it	J. D.	# Folio:	<u> </u>					1_			
Item	Dim./Spec.	Spec.	/ Limits	Units		Organiza	ation Measu		ults (Data)		Ok	Not	Instrument
		tol +	tol -		SAMPLE 1	SAMPLE 2		SAMPLE 4	SAMPLE 5	SAMPLE 6		Ok	# ID
1	22.7	REF	REF	mm	22.656	22.649	22.638	22.614	22.667	22.617	~		LMMC-009
2	38.9	REF	REF	mm	38.942	39.006	39.005	38.978	38.953	38.955	~		LMMC-009
3	49.2	REF	REF	mm	49.050	49.057	49.017	49.083	49.075	49.055	~		LMMC-009
4	10.4	REF	REF	mm	10.593	10.418	10.498	10.599	10.494	10.524	~		LMMC-009
5	40.9	REF	REF	mm	40.937	41.001	40.955	40.953	40.943	40.936	~		LMMC-009
6	90.0	REF	REF	Degree	90.09	89.10	89.39	90.28	89.28	90.01	~		LMMC-009
7	56.8	REF	REF	mm	56.996	56.874	56.899	56.942	56.966	56.952	~		LMMC-009
8	LE'	VER			ОК	ОК	ок	ОК	OK	OK	~		
9	SHIELD	HOUSIN	G		ОК	ОК	ок	ОК	OK	OK	~		
10	KEY IDEN	TIFIER F	REF		ОК	ОК	ОК	ОК	OK	OK	~		
11	24.0	REF	REF	mm	23.883	24.058	24.021	23.917	24.052	24.048	~		LMMC-009
	NO.	TES:											
1	MATERIAL: SHIELD HOUSING: NYLON 6/6, COLOR - SEE TABLE LEVER: NYLON 6/6, COLOR: GRAY					NOTED PER APQP TEAM ✓							
2	SHIELD ASSEMBLY ACCEPTS ASSEMBLED TYCO ELECTRONICS CARRIER PART NUMBER 1924340- 1 & 1924341-1 , 1924340-1 & 1924341-1 MUST BE ASSEMBLED TOGETHER BEFORE INSERTING INTO SHIELD ASSEMBLY					NOTED PER APQP TEAM ✓							
			CONC	LUSION	:								
			TOTAL	# OF FI	EATURE	S		48					
			LESS	BASIC D	IMENSIC	MENSIONS 0							
			LESS	REFERE	NCE DIN	MENSIO	NS	48					
			REPO	RTED DI	IMENSIONS 0								
			# DIME	ENSIONS	S IN TOL	ERANCE	Ξ		0				
			# DIME	ENSIONS	S OUT O	F TOLEF	RANCE		0				
			% DIM	ENSION	IN TOLE	ERANCE			%				
					OUT OF				0.00				
			70 DIIVI	-1401014		, olliv	, 10 L		3.00	70	$\vdash\vdash\vdash$		
											$\vdash\vdash\vdash$		
March 20	006 CFG-100	13											
	04J-EG Rev: J				SIGNA	ATURE				TITLE			DATE
, <u>, , , , , , , , , , , , , , , , , , </u>	LO 10ev. J					ANCHEZ			Metrology Chief OCT-18-2020				







Section 10 Material, Performance Test Results

AAF214, Rev. D, 23-Jun-2017



Certificate of Analysis

Customer:

Product Number

: 52506291

TE CONNECTIVITY CORPORATION

Product Name

: ULTRAMID® A3EG7 UNCOLORED

POLYAMIDE 726KG FIBREBOARD IBC

8000 PIEDMONT TRIAD PKWY

Vehicle

: WF9311073

GREENSBORO NC 27409-9407

Batch/Lot Manuf.Date

: Nov-07-2019

Attention: FAX:

Shipped Date

: 28,810.008 LB

Cust Prod:

Shipped Quantity

: Dec-10-2019

702661-2

Delivery Date Order Number

: 117268954 000010

Cust Prod Name:

ULT.A3EG7 UN 726KG 11G

Cust P.O.:

2710475333

Delivery Note

: 144050423 900001

Cust P.O. Line: Inspection Certificate 3.1 according to EN 10204

			Specifi	cation	-
Characteristic	Result	U0 M	Minimum	Maximum	Test Method
Ash / Filler Content	35.12	%	33.00	37.00	ASTM5630/ISO3451
Moisture Content	0.03	%		0.12	ASTM D6869 / ISO 15512B
Viscosity Number for Polyamides	152	ml/g	130	160	ISO 307

Comments:

Results shown are the means of individual test values for those samples taken during production.

This product is approved for the following specifications:

MS-DB41 CPN2224

MS-DB41 CPN3695

WSK-M4D673-A

GMP.PA66.013

GMW16802P-PA66-GF35

100-1302

M53122

M5600

NSF Standard 51 Listed

NSF Standard 61 Listed

Thank you for choosing a BASF Product

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.

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



Certificate of Analysis

Customer:

Product Number **Product Name**

: 52505496

TE CONNECTIVITY CORPORATION

8000 PIEDMONT TRIAD PKWY **GREENSBORO NC 27409-9407**

: ULTRAMID® A3EG7 GREY 22930

POLYAMIDE 726KG FIBREBOARD IBC

Vehicle

Batch/Lot

: 0208616210

Manuf.Date

: Jan-21-2020

Attention:

FAX:

Shipped Date Shipped Quantity

: 1,600.556 LB

Cust Prod:

702661-8

Delivery Date

: Feb-21-2020

Cust Prod Name: ULT.A3EG7 GR22930 726KG 11G

Order Number

: 117376328 000010

Cust P.O.: Cust P.O. Line:

2711092071

Delivery Note

: 144273902 900001

Inspection Certificate 3.1 according to EN 10204

	· · · · · · · · · · · · · · · · · · ·		Specifi	cation	
Characteristic	Result	UOM	Minimum	Maximum	Test Method
Ash / Filler Content	35.94	%	34.00	38.00	ASTM5630/ISO3451
Moisture Content	0.06	%		0.15	ASTM D6869 / ISO 15512B
Viscosity Number for Polyamides	144	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.

211837472

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.

MAQUILAS TETAKAWI SA DE CV



Certificate of Analysis

Customer: Product Number : 52568990

Product Name : ULTRAMID® A3EG7 BLACK 23189

POLYAMIDE 726KG FIBREBOARD IBC

CARRET INT KM 1969
85340 EMPALME SON

Vehicle : C: 220350 P: 53-UF-2

 Batch/Lot
 : A520073C1

 Manuf.Date
 : Mar-16-2020

 Shipped Date
 : Jul-08-2020

 Shipped Quantity
 : 9,603.336 LB

 FAX:
 Shipped Quantity
 : 9,603.336 LB

 Cust Prod:
 702661-9
 Delivery Date
 : Jul-08-2020

Cust Prod Name: ULT.A3EG7 BK23189 726KG 11G Order Number : 117497787 000010

Cust P.O.: 2711746481

Cust P.O. Line: 1 Delivery Note : 144637696 900003

Inspection Certificate 3.1 according to EN 10204

----Specification----Characteristic Result **UOM** Minimum Maximum Test Method ASH-A 35.333 % 33.000 37.000 ASTMD5630 0.050.15 ASTM6869 / ISO15512B Moisture % VN-PA 144 ml/g 130 160 ISO 307

Comments:

Attention:

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.



Section 12 **Qualified Laboratory Documentation**

AAF214, Rev. D, 23-Jun-2017





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

Certification Date: 2018-07-11

Page: 1 of 2

bsi.

ATT.

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 <u>online</u>. 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

This certificate remains the property of BSI and shall be returned immediately upon request.

An electronic certificate can be authenticated <u>online</u>. 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.