

	30 POSITION,	,		Part Numb				
Shown on Drawing Number C-238	86198		Org	.Part Numb	er 19249	000-1		
Engineering Change Level	A2			Date	ed 19/12 /	/2019		
Additional Engineering Changes	N/A			Date	ed <i>N/A</i>			
Safety and/or Government Regulation	☐ Yes [☑ No	Purchase Orde	r No.	N/A	Wei	ght (kg)	0.01249g
Checking Aid Number N/A	Checking A	Aid Engineerin	g Change Level		N/A		Dated _	N/A
ORGANIZATION MANUFACTURING	INFORMATION		сиѕтом	ER SUBM	ITTAL IN	FORMA	TION	
TE Hermosillo Automotive	/588115	092	Nursan	Otomotiv	Ltd.			
Organization Name and Supplier Code			Customer I	Name/Divisi	on			
Carretera Int, KM 1969, Guadala	jara-Nogales K	(m 2	N/A					
Street Address			Buyer/Buye	er Code				
		exico ountry	All Mode					
MATERIALS REPORTING Has customer-required Substance of Cond Submitted by IMI	cern information bed DS or other custom	-	☑ Ye 118908175 / 5	s 🗆	No		n/a	
Are polymeric parts identified with appropr REASON FOR SUBMISSION (Check at le	=	odes?			No		n/a	
 ☑ Initial submission ☐ Engineering Change(s) ☐ Tooling: Transfer, Replacement, F ☐ Correction of Discrepancy ☐ Tooling Inactive > than 1 year 	Refurbishment, or a	dditional		Sub-S Chan Parts	ge to Option Gupplier or ge in Part Produced please s	Material S Processin at Additio	Source Ch	ange
REQUESTED SUBMISSION LEVEL (Che Level 1 - Warrant only (and for de Level 2 - Warrant with product sar Level 3 - Warrant with product sar Level 4 - Warrant and other requir Level 5 - Warrant with product sar SUBMISSION RESULTS The results for dimensional mea	signated appearand mples and limited s mples and complete rements as defined mples and complete asurement	upporting data e supporting da by customer e supporting da	submitted to custon ata submitted to cust ata reviewed at supp	ner. comer.	acturing lo	cation.		ess package
These results meet all design record requi Mold / Cavity / Production Process								
These results meet all design record requi Mold / Cavity / Production Process DECLARATION I affirm that the samples represented by th Approval Process Manual 4th Edition Requilation Requirements R	uirements. I further such compliance is	affirm that the	se samples were pro	•	•			
These results meet all design record requi Mold / Cavity / Production Process DECLARATION I affirm that the samples represented by th Approval Process Manual 4th Edition Requilation Requirements R	uirements. I further such compliance is	affirm that the	se samples were pro	•	•			
These results meet all design record requi Mold / Cavity / Production Process DECLARATION I affirm that the samples represented by th Approval Process Manual 4th Edition Requi I also certify that documented evidence of I have noted any deviations from this declation Required Process Manual 4th Edition Required Proce	uirements. I further such compliance is aration below.	affirm that the	se samples were pro	duced at th	•			
These results meet all design record requi Mold / Cavity / Production Process DECLARATION I affirm that the samples represented by th Approval Process Manual 4th Edition Requirals also certify that documented evidence of I have noted any deviations from this declaration. EXPLANATION/COMMENTS Is each Customer Tool properly tagged and	uirements. I further such compliance is aration below.	affirm that the	se samples were pro available for review.	duced at th	e production			
These results meet all design record requi Mold / Cavity / Production Process DECLARATION I affirm that the samples represented by th Approval Process Manual 4th Edition Requirals also certify that documented evidence of I have noted any deviations from this declaration. EXPLANATION/COMMENTS Is each Customer Tool properly tagged and	uirements. I further such compliance is aration below.	affirm that the	se samples were pro available for review.	duced at th	e production	on rate of		5
These results meet all design record requi Mold / Cavity / Production Process DECLARATION I affirm that the samples represented by th Approval Process Manual 4th Edition Requil also certify that documented evidence of I have noted any deviations from this declaration from the declaration of the company	uirements. I further such compliance is aration below.	affirm that the	se samples were pro available for review.	duced at th	N/A	Date		5
These results meet all design record requi Mold / Cavity / Production Process DECLARATION I affirm that the samples represented by th Approval Process Manual 4th Edition Requirally I also certify that documented evidence of I have noted any deviations from this declaration and the samples represented by the Approval Process Manual 4th Edition Requirally I also certify that documented evidence of I have noted any deviations from this declaration and the sample of the sampl	uirements. I further such compliance is aration below. d numbered? Torge Passareiro	affirm that these on file and is	se samples were pro available for review. Yes	educed at the	e production	Date	/ hours	19/01/2023
These results meet all design record requi Mold / Cavity / Production Process DECLARATION I affirm that the samples represented by th Approval Process Manual 4th Edition Requirally I also certify that documented evidence of I have noted any deviations from this declaration and the samples represented by the Approval Process Manual 4th Edition Requirally I also certify that documented evidence of I have noted any deviations from this declaration and the sample of the sampl	uirements. I further such compliance is aration below. d numbered? Torge Passareiro	affirm that the son file and is Phone No. Email	se samples were pro available for review. Yes	o 24	e production	Date	/ hours	19/01/2023



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

TE Connectivity 1924900-1 PLUG ASSY 30 POSN (26X 0.64, 4X 1.50) HYBRID

N/A Supplier/Vendor Code: Part Name: **UNSEALED**

INSPECTION FACILITY: DWG: C - 1924900 REV: A1 Design Record Change Level:

Engineering Change Documents:

ΓΕ Cor	nectivity Emp	alme Metrology la	ah	Engineering	g Change Do	ocuments:			N/	A			
	Inconvity Emp			# Folio: 46053 Pa						Page1		of2	
Item	Dim./Spec.	Spec. / Limits	Units		Organiza	ation Measur	ement Resu	lts (Data)		Ok	Not	Instrument	
		tol + tol -		SAMPLE 1	SAMPLE 2	SAMPLE 3	SAMPLE 4	SAMPLE 5	SAMPLE 6		Ok	# ID	
1	18.40	REFERENCE	mm.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
2	54.45	REFERENCE	mm.	54.373	54.384	54.386	54.369	54.388	54.370	~		LMMC-010	
3	2.54	REFERENCE	mm.	2.542	2.546	2.544	2.542	2.538	2.541	~		LMMC-010	
	2.54	REFERENCE	mm.	2.539	2.545	2.543	2.543	2.541	2.542	~			
	2.54	REFERENCE	mm.	2.546	2.542	2.540	2.545	2.543	2.540	~			
	2.54	REFERENCE	mm.	2.539	2.544	2.539	2.543	2.542	2.540	~			
	2.54	REFERENCE	mm.	2.538	2.546	2.541	2.541	2.544	2.539	~			
	2.54	REFERENCE	mm.	2.542	2.541	2.538	2.543	2.540	2.544	~			
	2.54	REFERENCE	mm.	2.544	2.546	2.538	2.542	2.538	2.541	~			
	2.54	REFERENCE	mm.	2.541	2.546	2.536	2.540	2.537	2.539	~			
	2.54	REFERENCE	mm.	2.546	2.538	2.539	2.541	2.546	2.536	~			
	2.54	REFERENCE	mm.	2.539	2.542	2.541	2.543	2.541	2.544	~			
	2.54	REFERENCE	mm.	2.539	2.544	2.542	2.540	2.542	2.541	~			
	2.54	REFERENCE	mm.	2.541	2.539	2.544	2.539	2.540	2.538	~			
	2.54	REFERENCE	mm.	2.546	2.540	2.540	2.538	2.539	2.539	~			
4	3.50	REFERENCE	mm.	3.512	3.510	3.506	3.512	3.508	3.506	~		LMMC-010	
	3.50	REFERENCE	mm.	3.508	3.515	3.521	3.516	3,510	3.510	~			
5	2.54	REFERENCE	mm.	2.558	2.570	2.572	2.566	2.576	2.575	~		LMMC-010	
	2.54	REFERENCE	mm.	2.539	2.549	2.546	2.553	2.542	2.550	~			
	2.54	REFERENCE	mm.	2.552	2.546	2.540	2.548	2.543	2.547	~			
	2.54	REFERENCE	mm.	2.550	2.550	2.548	2.548	2.553	2.537	~			
	2.54	REFERENCE	mm.	2.555	2.549	2.553	2.546	2.546	2.547	~			
	2.54	REFERENCE	mm.	2.539	2.545	2.547	2.550	2.536	2.547	~			
	2.54	REFERENCE	mm.	2.549	2.546	2.548	2.552	2.546	2.551	~			
	2.54	REFERENCE	mm.	2.542	2.549	2.547	2.544	2.545	2.545	~			
	2.54	REFERENCE	mm.	2.547	2.546	2.546	2.546	2.545	2.542	~			
	2.54	REFERENCE	mm.	2.553	2.548	2.545	2.534	2.542	2.529	~			
	2.54	REFERENCE	mm.	2.541	2.549	2.550	2.540	2.547	2.538	~			
	2.54	REFERENCE	mm.	2.551	2.557	2.560	2.574	2.563	2.570	~			
	2.54	REFERENCE	mm.	2.545	2.564	2.567	2.570	2.553	2.566	~			
	2.54	REFERENCE	mm.	2.542	2.545	2.546	2.555	2.537	2.557	~			
	2.54	REFERENCE	mm.	2.548	2.558	2.557	2.542	2.554	2.550	~			
	2.54	REFERENCE	mm.	2.549	2.531	2.547	2.539	2.542	2.542	~			
	2.54	REFERENCE	mm.	2.553	2.542	2.532	2.530	2.548	2.547	~			

March 2006 CFG-1003

TITLE DATE SIGNATURE AEF004J-EG Rev: J August 6, 2019 Fabiola Agruel Metrology Chief



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.

6

6

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0.00 %

100,00 %

DIMENSIONAL TEST RESULTS

TE Connectivity Part Number: 1924900-1 PLUG ASSY 30 POSN (26X 0.64, 4X 1.50) HYBRID N/A Supplier/Vendor Code: Part Name: UNSEALED INSPECTION FACILITY: DWG: C - 1924900 REV: A1 Design Record Change Level: N/A Engineering Change Documents: TE Connectivity Empalme Metrology lab # Folio: 46053 Page 2 of Dim./Spec. Organization Measurement Results (Data) Spec. / Limits Units Instrument Ok tol + tol -SAMPLE 1 SAMPLE 2 SAMPLE 3 SAMPLE 4 SAMPLE 5 SAMPLE 6 #ID 2.54 REFERENCE 2.547 2.541 2.544 2.555 2.548 2.553 V 2.54 REFERENCE 2.554 2.546 2.547 2.545 2.544 2.548 2.54 REFERENCE 2.550 mm. 2.547 2.554 2.556 2.556 2.548 2.54 REFERENCE 2,549 2.537 2.538 2.542 2.540 2.545 V mm. 2.54 REFERENCE 2,553 2.554 2.544 2.545 2.552 2.551 V mm. 2.54 REFERENCE 2.540 2.544 2.533 2.540 2.543 2 520 mm. 2.54 REFERENCE 2.579 2.557 2.565 2.564 2.577 2.538 REFERENCE 6 27.24 mm. 27.273 27.249 27.266 27.258 27.266 27.281 V LMMC-010 32.13 7 32.118 LMMC-010 0.70 0.30 32.061 32.091 32.018 32.124 32.123 15.00 8 REFERENCE 15.031 15.063 15.063 15.065 15.069 15.062 V LMMC-010 mm. 13.00 REFERENCE 13.000 12.996 12.999 13.003 13.018 13.005 LMMC-010 9 mm. HOUSING QTY: 1 10 visual OK OK OK OK OK OK 11 CPA OPTIONAL (SEE TABLE) N/A N/A N/A N/A N/A N/A N/A N/A visual 12 TPA QTY: 1 visual OK OK OK OK OK OK V NOTES: MATERIAL: **PLUG** HOUSING: NYLON, COLOR -BLACK NOTED PER APQP TEAM 1 TPA: NYLON, COLOR - NATURAL CPA: PBT. COLOR - RED 2 TERMINALS SOLD SEPARATELY OK OK OK OK OK OK V TPA SHOWN IN PRE - SEATED 3 OK OK OK OK OK OK POSITION CONCLUSION: TOTAL # OF FEATURES 264 LESS BASIC DIMENSIONS 0 LESS REFERENCE DIMENSIONS 258

March 2006 CFG-1003

AEF004J-EG Rev: J SIGNATURE TITLE DATE
Fabiola Agruel Metrology Chief August 6, 2019

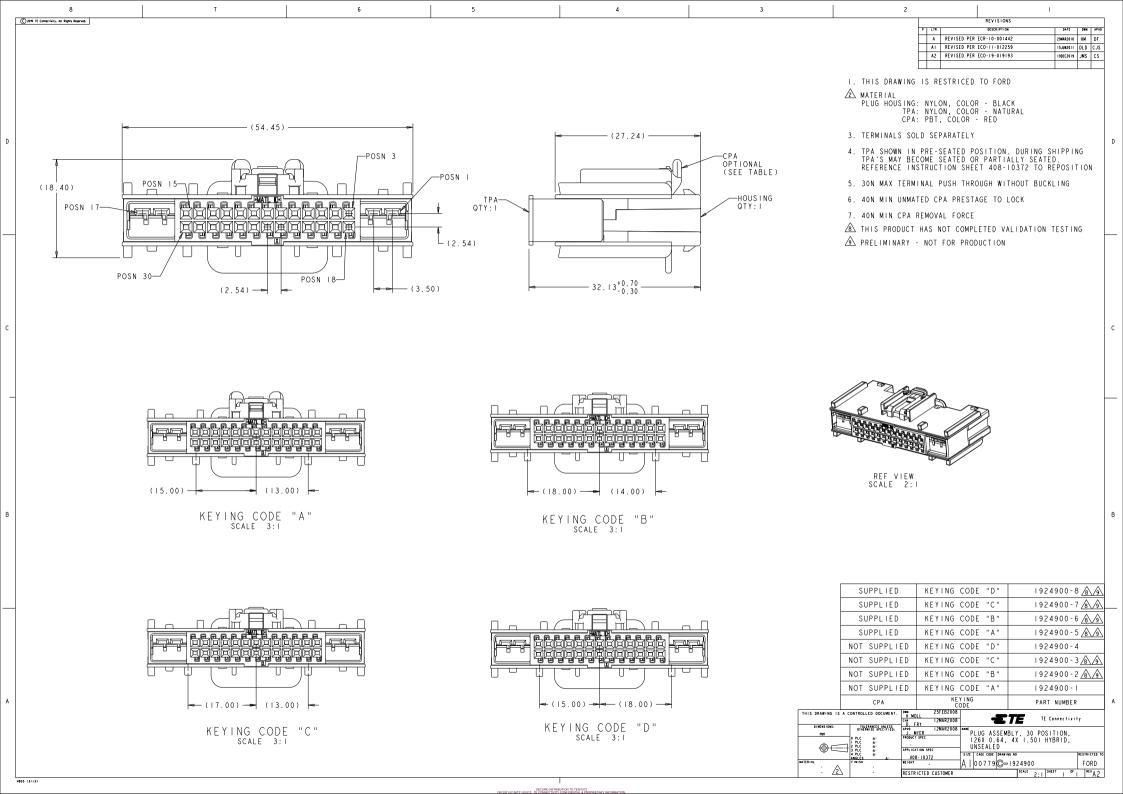
REPORTED DIMENSIONS

DIMENSIONS IN TOLERANCE

% DIMENSION IN TOLERANCE

DIMENSIONS OUT OF TOLERANCE

% DIMENSION OUT OF TOLERANCE



Ford	ENGINEERING SAME	PLE EVALUATION REPORT	
PART NAME: SLV WIR CONN FEM (30p Hybi	rid Female Connector Assembly)	PART NO.: 9U5T-14489-ZA & DU5T-14489-HF	IA (TE p/n: 1924900-1 & -4)
, , ,		CHANGE TYPE:	CHECK APPLICABLE:
	CURRENT MANUFACTURING SITE:	TOOL MOVE:	
SUBMITTED BY: Chris Schmid	Empalme, MX	PROCESS CHANGE:	
SUBMITTED BY: Chris Schillid	FUTURE MANUFACTURING SITE:	MATERIAL/MATERIAL SUPPLIER CHANGE:	
	Empalme, MX	CAPACITY TOOL:	X
SUPPLIER: TE CONNECTIVITY	•	DATE SUBMITTED: 3/24/2021	MADE TO DRAWING DATED: 20171128
	g on a capacity mold for the housing component o		
APPROVED: PROD	OUCT ENGINEERING SIGNATURE*:		DATE: Mar 24, 2021
IDEN	ITIFY WITH $$	ENGINEERING CRITICAL REQUIREMENTS	
*By signing this document, yo	ou state that you have verified the physical part/s with the	e drawing/s and agree with key dimensional data, no	tes and appearance.

Revised September 14, 2018 FAP03-149

Ford		De	esign Veri	ficatio	n Plan	and Re	eport							page 2 of 5
System: CPSC 18.01.0	7 Connecto	ors	Ford part num HHA 30p Unsealed	` ,				Model Year a	and Program:		Ford Design	Engineer:		pago 2 01 0
Temperature Class	T2	T1, T2, T3, T4 T5	Supplier: TE C				OIV				Ford Design Engineer Approval			
	V1	V1, V2,V3, V4, V5		Reason for Validation:		Capacity Tool		t Level:	PV - product	tion	Plan:			Report:
	S1	S1, S2, S3	Reason for V	/alidation:										
Test Name/Sou		Acceptance (Criteria	7	Γest Resul∗	ts	Design Level Tested		le Size	Ti Sched.	Timing		Remarks	
								Required	resteu	Scried.	A	ctuai		Remarks
Group E -Mechanical	Test Misc.	Component Engage	/Disengage 5.9	9.5										
Mechanical Test SAE/USCAR-2 Misc. Component Er 5.4.5	ngage/Dise	ngage	SAE/USCA Visual Inspecti				SAE/USCA Misc. Comp age/Diseng	onent	-	SDS EL-0001 C2 If Used Dress Cover post conditi Engage/Disengage 5.4			/USCAR-2 spection 5.1.	8
E-1. Visual Inspection - SAE/USCAR-2 5.1.8 To document the physical appearance of test sam	0	The connectors asser show, with the a magnification, any deterioration, cracks etc., that could a functionality or d appearance. Conn mechanism must fu breakin	aid of 10X evidence of s, deformities, affect their istort their ector locking nction without		Pass		PV	10	12				3 samples	from each mold cavity for each test group.
E-2. Misc. Component Engage/Disengage 5.4.5		Acceptance Crite USCAR Table 5.4.5	2	Max	Min	Ave								
E-2.i TPA/PLR Engage to Lock) without termina SAE/USCAR-2, 5.4.5.2	als	15N Min w/o to	erminals	62.67N	26.47N	45.31N								
E-2.j TPA/PLR Engage to Lock) with terminals SAE/USCAR-2, 5.4.5.2	3	60N Max with termi	nals installed	59.52N	34.96N	44.00N	PV	10	12					
E-2.k TPA/PLR Diseng to preset) with terminal SAE/USCAR-2, 5.4.5.2	s 2.3 B	60N Max with termi	nals installed	53.27N	22.83N	36.30N							lift each s	this connector is to use a tool to ide of the TPA fingers over the ion bump. Not straight pull.
E-2.m TPA/PLR Disenç (Remove) SAE/USCAR-2, 5.4.5.2		25N Mi	n	51.60N	35.07N	44.64N								
E-5. Visual Inspection - SAE/USCAR-2 5.1.8 To document the physical appearance of test sam Revised Se	o nples.	The connectors asser show, with the amagnification, any deterioration, cracks etc., that could afunctionality or dappearance. Connechanism must fut, 2018 breakin	aid of 10X evidence of s, deformities, affect their istort their ector locking nction without		Pass		PV	10	12					FAP03-149

Revised September 14, 2018 FAP03-149

(Jord)	De	sign Ver	ificatio	n Plan	and Re	eport					page 4 of 5		
System: CPSC 18.01.07 Connect	ors	HHA .	nber (s): 9U5T-14489-ZA & DU5T-14489-				Model Year a	and Program:		Ford Design Engineer:			
Temperature Class T2	T1, T2, T3, T4 T5	Supplier: TE 0			CIOI ASSEIII	DIV				Ford D	esign Engineer Approval		
Vibration Class V1	V1, V2,V3, V4, V5	Peacon for \	Capacity Tool		Par	t Level:	PV - product	ion	Plan: Report:				
Sealing Class S1	S1, S2, S3	Reason for v	/aiiuatiori.	idation:									
Total News (Occurs	A	Duit4 - ut -		F 4 D I	4-	Design	Sampl	e Size	Tiı	ning			
Test Name/Source	Acceptance C	Sriteria		Test Resul	ts	Level Tested	Required	Tested	Sched.	Actual	Remarks		
G-2.d) Connector-to Connector Un-mating Force w/primary lock disengaged (Hand Mated) USCAR-2, 5.4.2.3 C1	75N or le USCAR-2, 5.4		71.64N	56.31N	64.52N		5				Use 5 samples from G-2.a above.		
G-5. Visual Inspection - SAE/USCAR-2 5.1.8 To document the physical appearance of test samples.	The connectors assen show, with the a magnification, any deterioration, cracks etc., that could a functionality or di appearance. Conne mechanism must fur breaking	aid of 10X evidence of s, deformities, iffect their istort their ector locking nction without		Pass		PV							

Test Part Inventory Page

	Male Connector Test	Female Connector Test
Terminal Test Part Numbers		TE Generation Y 0.64: 1-1456574-3 Molex 1.5mm: 33012-2004
Seal Test Part Numbers		N/A
Clip/Cover etc. Test Part Numbers		N/A
Mating Device Used ParkNumbensenber 14, 2018		9U5T-14A459-UA (TE 1924903-1)

Ford		De	sign Ver	ificatio	n Plan and Re	port						page 5 of 5	
System: CPSC 18.01	1.07 Connect	cors	Ford part number (s): 9U5T-14489-ZA & DU5T-14489- HHA 30o Unsealed Hybrid Female Connector Assembly				Model Year a	and Program:		Ford Design Engineer:			
Temperature Class	T2	T1, T2, T3, T4 T5	Supplier: TE Connectivity						Ford D	esign Engir	neer Approval		
Vibration Class	V1	V1, V2,V3, V4, V5	Reason for \	/alidation:	Capacity Tool	Par	t Level:	PV - product	ion	Plan:		Report:	
Sealing Class	S1	S1, S2, S3	Reasonion	railuation.									
Test Name/S		Acceptance (- witowin		Fest Results	Design Level	Sampl	e Size	Tin	ning			
rest Name/S	ource	Acceptance	onteria		est results	Tested	Required	Tested	Sched.	Actual		Remarks	
Terminal Te										tion Y 0.64: 1.5mm: 330			
Connector Te									9U5T-144	189-ZA (TE	1924	900-1)	
Wire Gauge a	nd Type									.mm = 20aw mm = 18awç	_		

Revised September 14, 2018 FAP03-149



Certificate of Analysis

Customer:

Product Number

: 52568990

TE CONNECTIVITY CORPORATION

Product Name

: ULTRAMID® A3EG7 BLACK 23189

POLYAMIDE 726KG FIBREBOARD IBC

Vehicle

: 0209440764

8000 PIEDMONT TRIAD PKWY GREENSBORO NC 27409-9407

Batch/Lot Manuf.Date

Shipped Date

: Nov-02-2020

Attention: FAX: Cust Prod:

702661-9

Shipped Quantity

: 17,606.116 LB

Cust Prod Name:

ULT.A3EG7 BK23189 726KG 11G

Delivery Date

Delivery Note

: Nov-24-2020

2713723214

Order Number

: 117817631 000010

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

: 145011989 900001

Inspection Certificate 3.1 according to EN 10204

	Specification								
Characteristic	Result	UOM	Minimum	Maximum	Test Method				
Ash / Filler Content	35.448	%	33.000	37.000	ASTM5630/ISO3451				
Moisture Content	0.05	%		0.15	ASTM D6869 / ISO 15512				
Viscosity Number for Polyamides	146	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



Certificate of Analysis

Customer:

Product Number

: 52568990

Product Name

: ULTRAMID® A3EG7 BLACK 23189

POLYAMIDE 726KG FIBREBOARD IBC

TE CONNECTIVITY CORPORATION

8000 PIEDMONT TRIAD PKWY GREENSBORO NC 27409-9407

Vehicle

Batch/Lot

: 0209389090

Manuf.Date Shipped Date : Nov-12-2020

Attention:

FAX:

Shipped Quantity

: 19,206.672 LB

Cust Prod:

702661-9

Delivery Date

: Dec-10-2020

Cust Prod Name: ULT.A3EG7 BK23189 726KG 11G

Order Number

: 117830940 000010

Cust P.O.:

2713789939

Cust P.O. Line:

Delivery Note

: 145048709 900001

Inspection Certificate 3.1 according to EN 10204

	Specification							
Characteristic	Result	UOM	Minimum	Maximum	Test Method			
Ash / Filler Content	35.529	%	33.000	37.000	ASTM5630/ISO3451			
Moisture Content	0.07	%		0.15	ASTM D6869 / ISO 155128			
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.

This product is approved for the following specifications:

MS-DB41 CPN 2224

MS-DB41 CPN 3695

M5600

M53122

Page 1 of 1



Certificate of Analysis

Customer:

Product Number Product Name

: 52568990

: ULTRAMID® A3EG7 BLACK 23189

POLYAMIDE 726KG FIBREBOARD IBC

TE CONNECTIVITY CORPORATION 8000 PIEDMONT TRIAD PKWY GREENSBORO NC 27409-9407

Vehicle Batch/Lot

: 0209522880

Manuf.Date

Shipped Date

Jan-22-2021

Attention: FAX:

702661-9

Shipped Quantity

: 24,008.340 LB

Cust Prod:

Cust Prod Name: ULT.A3EG7 BK23189 726KG 11G

Delivery Date

: Mar-02-2021

Cust P.O.:

Order Number

: 117906874 000010

2714396818

Cust P.O. Line:

Delivery Note

: 145254330 900001

Inspection Certificate 3.1 according to EN 10204

	Specification								
Characteristic	Result	UOM	Minimum	Maximum	Test Method				
Ash / Filler Content	34.977	%	33.000	37.000	ASTM5630/ISO3451				
Moisture Content	0.05	%		0.15	ASTM D6869 / ISO 155128				
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.

This product is approved for the following specifications:

MS-DB41 CPN 2224 MS-DB41 CPN 3695

M5600

M53122

Page 1 of 1



Certificate of Analysis

Customer:

Attention:

Product Number

: 52568990

Product Name

: ULTRAMID® A3EG7 BLACK 23189

POLYAMIDE 726KG FIBREBOARD IBC

TE CONNECTIVITY CORPORATION 8000 PIEDMONT TRIAD PKWY

GREENSBORO NC 27409-9407

Vehicle Batch/Lot

: 0209243148

Manuf.Date

: Oct-01-2020

Shipped Date

FAX: Cust Prod:

702661-9

Shipped Quantity

: 17,606.116 LB

Cust Prod Name: ULT.A3EG7 BK23189 726KG 11G

Delivery Date Order Number : Oct-20-2020 : 117811846 000010

Cust P.O.:

2713664337

Cust P.O. Line:

Delivery Note

: 144913452 900001

Inspection Certificate 3.1 according to EN 10204

	Specification								
Characteristic	Result	UOM	Minimum	Maximum	Test Method				
Ash / Filler Content	35.509	%	33.000	37.000	ASTM5630/ISO3451				
Moisture Content	0.05	%		0.15	ASTM D6869 / ISO 15512B				
Viscosity Number for Polyamides	142	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



Certificate of Analysis

Customer:

Product Number

: 52568990

TE CONNECTIVITY CORPORATION

Product Name

: ULTRAMID® A3EG7 BLACK 23189

POLYAMIDE 726KG FIBREBOARD IBC

8000 PIEDMONT TRIAD PKWY

Vehicle Batch/Lot

: 0209522880

GREENSBORO NC 27409-9407

Manuf.Date

: Jan-22-2021

FAX:

Attention:

702661-9

Shipped Date Shipped Quantity

: 22,407.784 LB

Cust Prod:

Cust Prod Name: ULT.A3EG7 BK23189 726KG 11G

Delivery Date

: Feb-15-2021

Order Number

: 117906877 000010

Cust P.O.:

2714396804

Cust P.O. Line:

Delivery Note

: 145233286 900001

Inspection Certificate 3.1 according to EN 10204

	Specification							
Characteristic	Result	UOM	Minimum	Maximum	Test Method			
Ask / Filler Contant	34.977	%	33.000	37.000	ASTM5630/ISO3451			
Ash / Filler Content	34.977	70	33.000	-,	,			
Moisture Content	0.05	%		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.

This product is approved for the following specifications:

MS-DB41 CPN 2224

MS-DB41 CPN 3695

M5600

M53122

Page 1 of 1



Certificate of Analysis

Customer:

Product Number

: 52568990

TE CONNECTIVITY CORPORATION

Product Name

: ULTRAMID® A3EG7 BLACK 23189

POLYAMIDE 726KG FIBREBOARD IBC

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

Vehicle Batch/Lot

: 0209522880

Manuf.Date

: Jan-22-2021

Attention:

Shipped Date

Cust Prod:

Shipped Quantity

: 22,407.784 LB

FAX:

702661-9 Cust Prod Name: ULT.A3EG7 BK23189 726KG 11G **Delivery Date** : Feb-23-2021

: 117906873 000010

Cust P.O.:

Order Number

Cust P.O. Line:

2714396808

Delivery Note

: 145251547 900001

Inspection Certificate 3.1 according to EN 10204

	Specification						
Characteristic	Reșult	UOM	Minimum	Maximum	Test Method		
Ash / Filler Content	34.977	%	33.000	37.000	ASTM5630/ISO3451		
Moisture Content	0.05	%		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.

This product is approved for the following specifications:

MS-DB41 CPN 2224 MS-DB41 CPN 3695

M5600

M53122

Page 1 of 1



Certificate of Analysis

Customer:

Product Number

: 52568990

TE CONNECTIVITY CORPORATION

Product Name

: ULTRAMID® A3EG7 BLACK 23189

POLYAMIDE 726KG FIBREBOARD IBC

8000 PIEDMONT TRIAD PKWY

GREENSBORO NC 27409-9407

Vehicle Batch/Lot

: 0209243148

Manuf.Date

Shipped Date

: Oct-01-2020

FAX:

Attention:

702661-9

Shipped Quantity

: 17,606.116 LB : Oct-30-2020

Cust Prod:

Cust Prod Name: ULT.A3EG7 BK23189 726KG 11G

Delivery Date

Cust P.O.:

Order Number

: 117817629 000010

2713722748

Cust P.O. Line:

Delivery Note

: 144949688 900001

Inspection Certificate 3.1 according to EN 10204

	Specification					
Characteristic	Result	MOU	Minimum	Maximum	Test Method	
Ash / Filler Content	35,509	%	33.000	37.000	ASTM5630/ISO3451	
Moisture Content	0.05	%		0.15	ASTM D6869 / ISO 15512B	
Viscosity Number for Polyamides	142	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



Certificate of Analysis

Customer: **Product Number** : 52506291

> Product Name : ULTRAMID® A3EG7 UNCOLORED

> > POLYAMIDE 726KG FIBREBOARD IBC

MAQUILAS TETAKAWI SA DE CV CARRET INT KM 1969 85340 EMPALME SON Vehicle : 220352/17-UC-3G Batch/Lot : A521097A1 Manuf.Date : Apr-09-2021

BASFORDERINFO@TE.COM Shipped Date : Jun-14-2021 : 4,801,668 LB BASFOrderInfo@te.com Shipped Quantity 702661-2 **Delivery Date** : Jun-14-2021 Cust Prod Name: ULT.A3EG7 UN 726KG 11G Order Number : 118195027 000010

Cust P.O.: 2716450634

Cust P.O. Line: : 145568608 900001 **Delivery Note**

Inspection Certificate 3.1 according to EN 10204

	Specification				
Characteristic	Result	UOM	Minimum	Maximum	Test Method
ASH-A	35.262	%	33.000	37.000	ASTM5630 / ISO3451
Moisture	0.08	%		0.12	ASTM6869 / ISO15512B
VN-PA	147	ml/g	130	160	ISO307

Attention:

Cust Prod:

eMAIL:

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

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







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:

BSI Certificate Number: 514458-003

IATF Number: 0315420

Page: 1 of 3



Certification Date: 2018-07-11 La

...making excellence a habit."

Assurance – Americas

Latest Issue: 2020-10-27 Expiry Date: 2022-01-09

Carlos Pitanga, Chief Operating (

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 3800 Reidsville Road Winston-Salem North Carolina 27102 USA

Calibration, Contract review, Product design, Purchasing, Sales, Supplier management, Testing

Global Automotive Division Americas North 20 Esna Park Drive Markham Ontario L3R 1E1 Canada

Product design, Testing

TE Connectivity

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

Page: 2 of 3

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

An electronic certificate can be authenticated online. Printed copies can be validated at www.bsigroup.com/ClientDirectory To be read in conjunction with the scope above or the attached appendix.

Further 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.

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

TE Connectivity

Global Automotive Division Americas North 32 Celerity Wagon St. El Paso Texas 79906 USA Distribution, Logistics, Packaging, Warehousing

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

Page: 3 of 3

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

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