



Part Submission Warrant

Part Name	<u>SLEEVE ASSEMBLY WIRE CONNECTOR MALE</u>	Cust. Part Number	<u>2L1T-14A624-PA</u>
Shown on Drawing Number	<u>6L3T-14A624-CA</u>	Org. Part Number	<u>309681100</u>
Engineering Change Level	<u>K</u>	Dated	<u>2014/03/18</u>
Additional Engineering Changes	<u>N/A</u>	Dated	<u>N/A</u>
Safety and/or Government Regulation	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Purchase Order No.	<u>N/A</u> Weight (kg) <u>0.0051</u>
Checking Aid Number	<u>N/A</u>	Checking Aid Eng. Change Level	<u>N/A</u> Dated <u>N/A</u>

ORGANIZATION MANUFACTURING INFORMATION

Molex Incorporated - Nogales DUNS: 81-222-2818
 Supplier Name & Supplier/Vendor Code
Calzada Industrial Nuevo Nogales S/N, Parque Industrial Nuevo Nogales
 Street Address
Nogales Sonora 84094 Mexico
 City Region Postal Code Country

CUSTOMER SUBMITTAL INFORMATION

Nursan
 Customer Name/Division
N/A
 Buyer/Buyer Code
N/A
 Application

MATERIALS REPORTING

Has customer-required Substances of Concern information been reported?

☒ Yes ☐ No

Submitted by IMDS or other customer format:

IMDS : 5496390

Are polymeric parts identified with appropriate ISO marking codes?

☒ Yes ☐ No ☐ n/a

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

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 organization'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" - Explanation Required)

Mold / Cavity / Production Process 309681100 / Assembly Process

DECLARATION

I affirm that the samples represented by this warrant are representative of our parts, which were made by a process that meets all Production Part Approval Process Manual 4th Edition Requirements. I further affirm that these samples were produced at the production rate of 6,800 / 8 hours. I also certify that documented evidence of such compliance is on file and available for your review. I have noted any deviation from this declaration below.

EXPLANATION/COMMENTS:

Is each Customer Tool properly tagged and numbered?

☐ Yes ☐ No ☒ n/a

Organization Authorized Signature

Date 12-Dec-2022

Print Name Yazmin Lecona B.

Phone No. 52 631 3111300

Fax No.

Title Quality Control Technician

E-mail ppapeuro@molex.com

FOR CUSTOMER USE ONLY (IF APPLICABLE)

PPAP Warrant Disposition: ☐ Approved

☐ Rejected

☐ Other

Customer Signature

Date

Print Name

Customer Tracking Number (optional)



SECTION B-B

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SECTION A-A

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NAME	LTG	REVISIONS
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Molex Initial Sample Inspection Report

Quality Control

SAMPLE DESCRIPTION: SLEEVE ASSEMBLY WIRE CONNECTOR MALE	INSPECTOR: S.Graciano	DATE: 24-Mar-2022
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Drawing #: 6L3T-14A624-CA	REV: K 2014/03/18	VENDOR: MOLEX
Molex P/N: 30968-1100		
Ford P/N: 2L1T-14A624-PA		

No.	PRINT SPEC.				Actual Measurements						UNITS	GAGE #	LEGEND
	Nominal	Tolerance			Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6			
1	34.85	+	0.13	- 0.13	34.900	34.934	34.900	34.947	34.912	34.908	MM	I-011	1
2	20.69	+	0.13	- 0.13	20.663	20.679	20.667	20.674	20.674	20.667	MM	I-011	1
3	19.78	+	0.13	- 0.13	19.781	19.765	19.875	19.871	19.795	19.826	MM	I-011	1
4	6.30	+	0.13	- 0.13	6.385	6.402	6.412	6.396	6.386	6.384	MM	CMM-004	1
5	17.58	+	0.13	- 0.13	17.684	17.677	17.678	17.709	17.681	17.703	MM	I-011	1
6	Housing Color " GRAY "				OK	OK	OK	OK	OK	OK			VISUAL
7	TPA Color " RED "				OK	OK	OK	OK	OK	OK			VISUAL
8	Circuit Size " 10 "				OK	OK	OK	OK	OK	OK			VISUAL
9	Weight (kg)				0.0051								
10	Notes: 4,6,7,8,9,11,13,14,16				OK	OK	OK	OK	OK	OK			
11	Notes: 1,2,3,5,10,12,17,18				REVIEWED	REVIEWED	REVIEWED	REVIEWED	REVIEWED	REVIEWED			

DIMENSION "OUT OF TOLERANCE" MARKED THUS "X"	LEGEND:
	1 Accepted 2 Rejected 3 Conditional 4 Tool life QCC.

Control Plan

<input type="checkbox"/> Prototype <input type="checkbox"/> Pre-launch <input checked="" type="checkbox"/> Production						Key Contact/Phone				Date(Orig.)		Date (Rev.)	
Control Plan Number						Carlos O. Ibarra. 631 980 0169				5/2/2003		July 10, 2021 Rev: P	
Part Number / Latest Change Level						Core Team				Customer Engineering Approval/Date (If Req'd)			
E-30968-XXXX (6-20CKTS) Rev: See MIDAS						Carlos Ibarra, Guadalupe Tolano, Christian Martinez				N/A			
2L1T-14A624-*, 4C3T-14A594-*, 2C5T-14A624-*													
3W4T-14A624-* & 5L8T-14A624-*													
Ford Drawing Number: 6L3T-14A624-CA													
Part Name / Description						Supplier/Plant Approval/Date				Customer Quality Approval/Date(If Req'd)			
Sleeve Assembly Wire Connector Male										N/A			
Supplier / Plant				Supplier Code		Other Approval Date (If Req'd)				Other Approval Date (If Req'd)			
Molex Nogales, Mexico						N/A				N/A			

Part / Process Number	Process Name / Operation Description	Machine, Jig, Tools For Mfg.	Characteristics			Special Char. Class.	Methods				Reaction Plan	
			No.	Product	Process		Product/Process Specification/ Tolerance	Evaluation Measurement Technique	Sample			Control Method
									Size	Freq.		
5	Incoming Inspection of components	N/A	1	Harness Housing 30968-2*		None	See Housing print for Color/ No Visual Damage and correct circuit number. Free of flash	Visual Inspection & damage	According inspection plan.	Each lot received	Inspection Plan & Drawing	Supplier QN, Material is rejected in the SAP and is located to MRB, Follow non-conforming product procedure O20
		N/A	2	TPA 30968-3*		None	See housing print for Color / No Visual Damage/ Correct Circuit Number, blocked Holes and Free of flash	Visual Inspection & damage	According inspection plan.	Each lot received		
		N/a	3	Xmas Tree 3330190107 & 799450196		None	See Xmas Tree print for Color / No Visual Damage pegs.	Visual Inspection & damage	According inspection plan.	Each lot received		
10	Component stage at assembly line	Housing	1		Verify correct part# on component bin	None	Correct Part number according to BOM of Work Order.	Visual	According inspection plan.	Set Up	Work Order	Inform Production Leader and material handler. Replace with correct components.
		TPA	2		Verify correct part# on component bin	None	Correct Part number according to BOM of Work Order.	Visual	According inspection plan.	Set Up	Work Order	
15	Set -up , Assembly Line	None	3		Assure correct components part numbers are in production line.	None	Part numbers must match work order, product print and or inspection plan	Visual Verification	According inspection plan.	Set Up	Work Order & Drawing	Reject Set-Up
20	Set -up Inspection (QC)	Manual	1		Insert Calibration label	None	Calibration date is valid	Visual Verification	Every Work Order	Set Up	Calibration label on Insert	Inform production leader and reject the Insert.
			2		Go No-go Gage verification (electronic sensor and go-no go gage)	None	Detect missing TPA and TPA full assembly	Golden samples	Every Work Order	Set Up	golden samples	Reject Gage
			3		TPA Must Be Correctly Orientated, No damaged or Molding Problems.& plastic burr before assembly process.	None	Part numbers must match work order, product print and or inspection plan	visual Inspection	According inspection plan.	Set Up	Compare to work order, production prints and inspection plans	Inform production leader and Reject Set-Up.
			4		TPA height 4.0 mm	None	Verify for TPA in correct position per drawing spec. +/- 0.90 mm (3.10 / 4.90 mm)	Drop indicator.	5pcs	Set Up	Per drawing spec. and inspection plan.	Reject Set-Up, Inform production leader & Adjust the process

Part / Process Number	Process Name / Operation Description	Machine, Jig, Tools For Mfg.	Characteristics			Special Char. Class.	Methods					Reaction Plan
			No.	Product	Process		Product/Process Specification/ Tolerance	Evaluation Measurement Technique	Sample		Control Method	
									Size	Freq.		
25	Visual Inspection of Xmas Tree. Only if apply.	None	1		Xmas Tree correctly installed.	None	No Obvious Damage or Obvious Molding issues to Xmas Tree	visual Inspection	According inspection plan.	Set Up	Per drawing spec. and inspection plan.	Scrap If Damaged.
30	Operator Visual inspection of components for defects (Housing and TPA before assembly)	Manual	1		Components should be free of defects & plastic burr before assembly process.	None	Parts should be free of defects	Visual Inspection	100%	Every work order and shift start	Compare to work order, Visual aid.	Reject component, Scrap.
40	Orientation & Preloading TPA Into Housing (manually)	Manual	1		TPA Must Be Correctly Orientated in pre-load position	None	TPA Preloaded	Visual Inspection	100%	Every Part	Design of components prevent incorrect orientation, Per work order and visual aid.	100% Sort, Scrap If Damaged
50	Manually Seat TPA Into Housing to pre-lock position.	Insert	1		TPA Must Be Correctly Orientated in pre-load position	None	assembly TPA in Prelock position with insert to height determined.	Insert Gage	100%	Every work order	Electronic sensor or Mechanic Go- no/go gage Per work order and visual aid.	100% Sort, Scrap If Damaged
60	Poke Yoke (sensor)TPA pre-lock verification		1		Accept / reject correctly	None	TPA in Prelock position.	electronic Sensor	100%	Every work order	Electronic sensor validation with golden samples.	100% Sort, Scrap If Damaged
65	Poke Yoke rail gage TPA pre-lock verification		1		Accept / reject correctly	None	TPA in Prelock position.	Mechanical Go no-go Gage.	100%	Every work order	Mechanic Go- no/go gage validation with golden samples	100% Sort, Scrap If Damaged
70	100% Final Inspection (Mechanic Proces Only)		1		Accept / reject correctly	None	TPA Preload position & Xmas Tree Assembled if applicable. No damage or flash.	Visual Inspection	100%	Every work order	Inspection Plan or Drawing , Operator training.	100% Sort, Scrap If Damaged
80	Install Xmas Tree to the housing (if apply)		1		Xmas Tree correctly installed	None	Correct part number.	Visual Inspection	100%	Every work order	Per work order and visual aid. Operator training. Unique part number	100% Sort, Scrap If Damaged
90	Packaging		1		Manual bulk Pack	None	Correct part number, label and qty.	Visual/ use the plastic box to weight the material to meet quantity requirements	every box for correct label and qty and 1pcs for correct part.	Every box and correct label and quantity.	Uses packaging drawing PK-30907-760.	Follow non-conforming product procedure (O20).
			2		Manual bulk Pack	None	Correct part packed inside of the box	Visual, compare part with drawing or visual aid.	every box for check 1pcs for correct part.	Every box for correct part packed.	Uses packaging drawing PK-30907-760.	Follow non-conforming product procedure (O20).
100	Weigh station to verify correct box qty.	Manual	1		Parts are weight count using a scale	None	Box should have correct qty	Box weight	100%	Every work order	visual Aid	100% Sort and repack.
110	Inspection Q.C.	None	1			None	correct quantity of ctk's. No visual damage in any of the components, color, black spot,or Free of plastic burr in housing or TPA (blocked holes). & packing Metod.	Visual Inspection	10%	Every box	Per inspection plan	Follow non-conforming product procedure (O20).
120	Send finish goods to warehouse	None	1			None	No damaged parts allowed	Visual inspection	100% of skids	Every skid received	Per Work instruction# 117	Follow non-conforming product procedure (O20).

Part / Process Number	Process Name / Operation Description	Machine, Jig, Tools For Mfg.	Characteristics			Special Char. Class.	Methods					Reaction Plan
							Product/Process Specification/ Tolerance	Evaluation Measurement Technique	Sample		Control Method	
			No.	Product	Process				Size	Freq.		
130	Customer	None	1			None	Send parts to correct customer	SAP system	100%	each shipment	W101, W118, W120, W123 & W124	Stop the process and notify warehouse supervisor.
140	Product Periodic verification	None	1		Dimensional and functional verification	None	Annual dimensional periodic verification	Full dimensional according customer drawing	6 Pieces	Annual	DOC103	Communicate to quality engineer.
			2				Functional special validation	According product specification	Determinate by engineering	Each change it could affect the product functionality	PCN process	Communicate to customer

Assy part 309681100

0309682100 HDAC64 DR MALE HSNG 10 CKT GRY POL 1
(0899921436)

0309683100 HDAC64 DR MALE TPA 10 CKT
(0899920273)

3000 Town Center, Suite 2820,,Southfield,MI 48075 USA,
TEL: 248-355-9590 FAX: 248-355-9330

Certificate of Analysis

To whom it may concern

We hereby certify that the following commodity has been tested by us and its quality corresponds to the description as mentioned below.

Product Name/Grade/Color No./Package	Xarec WA 212 CD780916 Gray 740 KG CARTON		
Lot No.	KH0101QCJ1	Lot Size	2,960.000 kg
Customer Part No.		Delivery Date	03/01/2022
PO No.	1008765843	Sales Order	1100015263
Customer Name	Molex		

[illegible]

Idemitsu Chemicals U.S.A. Corporation
Date: 02/24/2022

Ryosuke Kondo

Authorized Signature(s)



MOLEX INC.
700 UPLAND
LINCOLN NE 68521
USA

CRISTI NYMAN
Phone: 402-458-8918
Fax: 630-813-8518

The Verst Group
Ticona Polymers
1100 Burlington Pike
FLORENCE KY 41042
USA

Type 4 Certificate of Analysis

CELANEX 3300-2 ES3144 RED M0

Customer Part No.:	0899920273	Cert Issue Date:	31 May 2022
Formula No.:	3300-2	Qty Shipped:	2,000.000 KG
Catalog:	20000804	Order Item /date:	2490533 10 / 25 May 2021
Color No.:	ES3144	Delivery item/date:	87511552 900001 / 25 Apr 2022
Produced at:	Florence, KY, USA	Account #:	2066402
		Customer PO No.:	1007394092
		Rail car:	53551 / 53551

Batch 0001603060

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

SPECIFICATIONS: CELANEX 3300-2 RED

BATCH RELEASE DATA	UoM	Value	Limit
Date when Batch Was Produced		20211112	
Ash Content	%(m)	29.91	28.00 - 32.00
Melt Visc. (scanning)@1000/s	Pascal sec	232.6	160.0 - 350.0
Melt Visc. (scanning)@400/s	Pascal sec	324.3	260.0 - 430.0

ANNUAL TESTS (REVISED ON)	UoM	Value	Limit
Flexural modulus (20 Nov 2021)	MPa	9757	min. 8000
Flexural Stress (20 Nov 2021)	MPa	221.1	min. 180.0
Izod Notched Impact Strength (20 Nov 2021)	kJ/m ²	9.85	min. 5.00
Tensile Stress at break (20 Nov 2021)	MPa	144.0	min. 100.0

COMMENTS

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

Polyester Global Business Line

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