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### PPAP Package for:

Customer Name: Newark Electronics
Customer Part Number:97C6622
(TE Connectivity Part Number):184141-1

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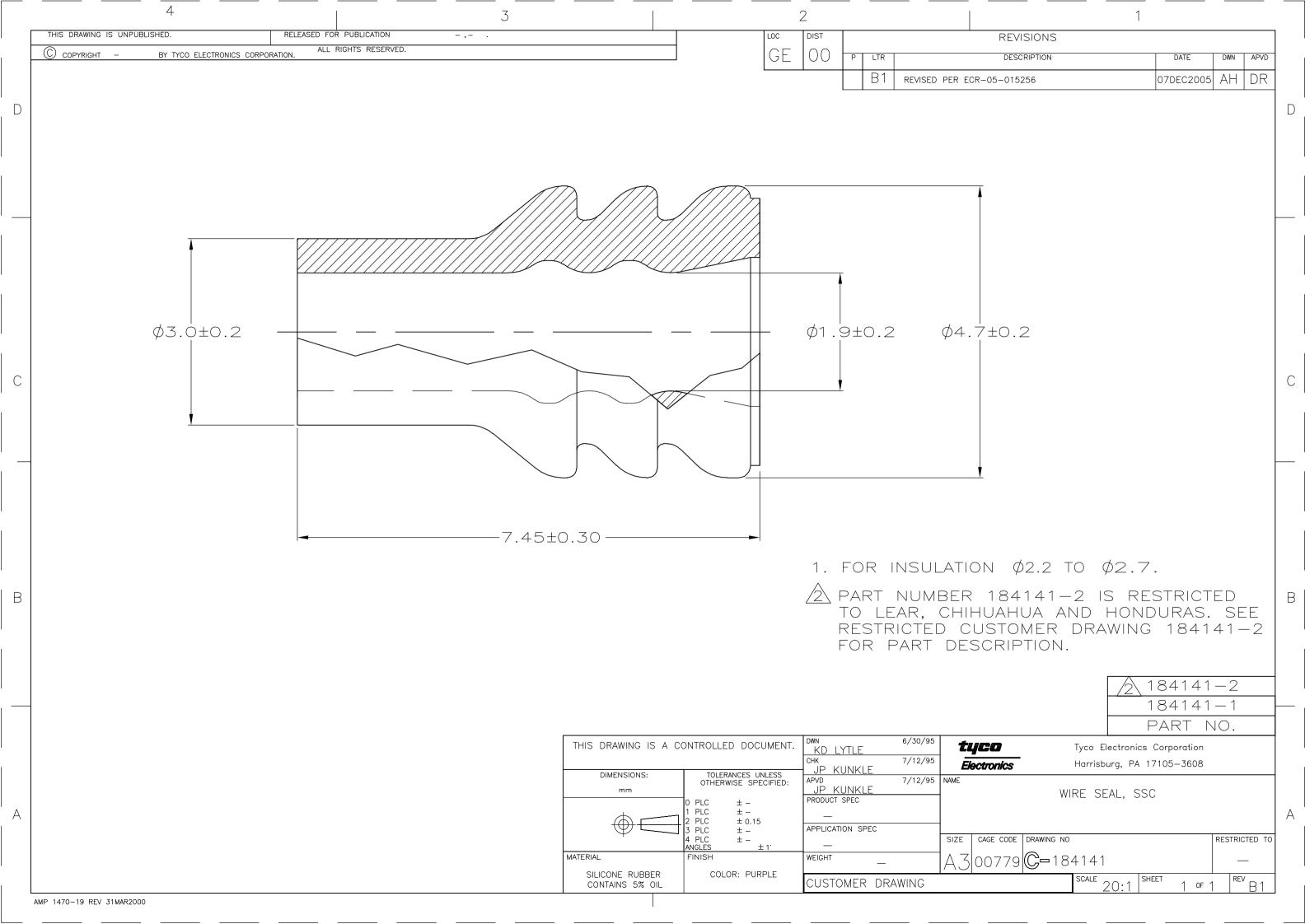
### **Nondisclosure Agreement**

If a nondisclosure agreement has been reached with your company, it will be included on the following page(s). Please review the terms of this agreement to ensure that further actions associated with information contained within this PPAP package do not violate these terms.

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



# Section 1 Design Records





# Section 2 Engineering Change Documents



### **Product Change Notification**

Current Date: 03-Aug-2020

### **TE Connectivity**

Product Change Notification: P-19-018058 PCN Date: 08-OCT-19

TE would like to inform you of the following change(s) to the listed TE Connectivity Product. In case of any further questions about this change(s), please contact your TE Connectivity Sales Engineer. Affected part, drawing and/or specification numbers are listed on the attached sheet(s).

#### **General Product Description:**

Multiple Part numbers. Phase 1. Americas Footprint Optimization

#### **Description of Changes**

We hereby inform you about a transfer of tools and/or processes to further improve our Supply Chain towards our customers. The transfer follows a strict procedure, which fully maintains quality, ability to supply and form-fit-function of the concerned products. The receiving manufacturing location operates under a certified quality management system in accordance with standard automotive requirements. These moves will be validated not to affect product fit, form and function, tool geometry, quality performance or the quality management system TE will uphold our responsibility to internally validate and approve these tools among appropriate first article dimensional and capability analysis, comparative 2-sample T-tests before and after moves, before and after CT scans where needed, and PV testing as defined by TE product engineering. TE is willing to provide any such validation data to our customers as our joint non-disclosure agreement statuses allow.

#### Reason for Changes:

These changes are part of an overall effort from TE to improve our supply chain toward our customers, to focus each plant on core products and processes, and to provide an overall better experience from TE to our customer base. A TE-internal release test based on the relevant part specifi cations will be executed before delivery and this notification serves to fulfill our notification requirements as prescribed by AIAG 4th edition. This change notification document accompanies a letter sent to your organization on September 13, 2019 signed by our Vice President of Sales and Marketing. Follow up conversations can occur upon request with your sales contact within 14 calendar days after receipt of this PCN. TE can share validation data with your organization upon request. If you have any questions or needs from this move, please contact your sales engineer within 15 days of receipt of this letter.

#### Estimated Dates:

Last Order Date (Obsolete Parts Only):	First Date To Ship (Changed Parts Only):
	31-DEC-2019
Last Ship Date (Obsolete Parts Only):	Last Date for Mixed Shipments: (Changed Parts Only):
	No Mixed Shipments

#### Part Number(s) being Modified:

Part Number	Part Discontinued per PCN	Customer Drawing	Alias Part Number(s)	Substitute Part Number	Substitute Alias Part Number(s)	Description Of Difference
<u>1-1419168-1</u>	NO		"V23542-G1506-D101"			
<u>1-1419168-2</u>	NO		"V23542-G1506-D102"			
<u>1-1419168-3</u>	NO		"V23542-G1506-D103"			
<u>1-1419168-5</u>	NO					
<u>1-1438153-1</u>	NO					
<u>1-1438153-2</u>	NO					
<u>1-1438153-3</u>	NO					
<u>1-1438153-4</u>	NO					
<u>1-1438153-5</u>	NO					
<u>1-1438153-6</u>	NO					
<u>1-1438153-7</u>	NO					
<u>1-1438153-8</u>	NO					
<u>1-1456426-1</u>	NO					
<u>1-1456426-2</u>	NO					
<u>1-1456426-5</u>	NO					
<u>1-1456426-6</u>	NO					
<u>1-1456985-0</u>	NO					
<u>1-1670915-1</u>	NO					
<u>1-1670916-1</u>	NO					
<u>1-1670917-1</u>	NO					
<u>1-1718643-1</u>	NO		"EG9733-000", "AMP-1-1718643-1"			
<u>1-1718643-3</u>	NO					
<u>1-1718644-1</u>	NO					
<u>1-1718644-2</u>	NO					
<u>1-1718644-5</u>	NO					

Part Number	Part Discontinued per PCN	Customer Drawing	Alias Part Number(s)	Substitute Part Number	Substitute Alias Part Number(s)	Description Of Difference
<u>1-1718888-1</u>	NO					
<u>1-1823608-1</u>	NO					
<u>1-1823608-4</u>	NO					
<u>1-1823608-5</u>	NO					
<u>1-1924067-1</u>	NO					
<u>1-1924067-2</u>	NO					
<u>1-1924067-3</u>	NO					
<u>1-1924067-4</u>	NO					
<u>1-1924067-5</u>	NO					
<u>1-1924067-6</u>	NO					
1-1924067-9 1-2141523-4	NO NO					
1-2141523-4 1-2203138-1	NO					
1-2203138-1 1-2203312-1	NO					
1-2203312-1	NO					
1-2203312-2	NO					
1-2203316-1	NO					
1-2203316-2	NO					
1-2203316-3	NO					
<u>1-2203320-1</u>	NO					
1-2203320-2	NO					
1-2203320-3	NO					
1-2203529-2	NO					
1-2203529-5	NO					
1-2203663-0	NO					
1-2203663-4	NO					
<u>1-2203663-6</u>	NO					
<u>1-2203663-7</u>	NO					
<u>1-2203769-1</u>	NO					
<u>1-2203769-2</u>	NO					
<u>1-2203769-3</u>	NO					
<u>1-2203771-1</u>	NO					
<u>1-2203771-3</u>	NO					
<u>1-2203773-1</u>	NO					
<u>1-2203773-2</u>	NO					
<u>1-2288986-1</u>	NO					
<u>1-2291436-1</u>	NO					
<u>1-2296694-1</u>	NO					
1-2296694-2 1-2296694-3	NO NO					
1-2296695-1	NO					
1-2296695-2	NO					
1-2296695-3	NO					
1-2296695-4	NO					
1-2296696-1	NO					
1-2296696-2	NO					
1-2296696-3	NO					
1-2296696-6	NO					
1-2296696-7	NO					
1-2296702-1	NO					
1-2296702-2	NO					
<u>1-2296704-1</u>	NO					
<u>1-2296704-2</u>	NO	-				
1-2296704-3	NO					
1-2297114-1	NO		-			
<u>1-2299071-1</u>	NO					
<u>1-2304514-1</u>	NO					
<u>1-2304514-2</u>	NO					
<u>1326942-1</u>	NO					
1326942-2	NO					
<u>1326942-3</u>	NO					
1326942-4	NO					
1326942-7	NO		II) 1995 49 94595 4454"			
<u>1419168-7</u>	NO		"V23542-G1506-A101"			

	Part Discontinued per PCN	Customer Drawing	Alias Part Number(s)	Substitute Part Number	Substitute Alias Part Number(s)	Description Of Difference
<u>1438153-1</u>	NO					
<u>1438153-4</u>	NO					
<u>1438153-5</u>	NO					
1438153-6 1438153-8	NO NO					
1456983-1	NO					
1456983-1 1456983-2	NO					
1456983-3	NO					
1456983-4	NO					
1456983-5	NO					
1456983-7	NO					
1456985-1	NO					
<u>1456985-2</u>	NO					
<u>1456985-3</u>	NO					
<u>1456985-4</u>	NO					
<u>1456985-5</u>	NO					
<u>1456985-6</u>	NO					
<u>1456985-7</u>	NO					
<u>1456985-9</u>	NO					
1488651-1	NO NO					
1488991-1 1488991-2	NO NO					
1488991-2 1488991-3	NO					
1488991-4	NO					
1488991-5	NO					
1488991-6	NO					
1488991-8	NO					
1488992-5	NO					
<u> 1488992-6</u>	NO					
<u>1587719-1</u>	NO					
<u>1670117-1</u>	NO					
<u>1732145-1</u>	NO					
<u>184139-1</u>	NO					
<u>184140-1</u>	NO					
184141-1 1924311-1	NO NO					
1924311-1 1924957-2	NO					
2-1438153-1	NO					
2-1438133-1 2-1670917-1	NO					
2-1718643-1	NO					
2-1718643-2	NO					
2-1718644-1	NO					
2-1718644-2	NO					
<u>2-1823608-1</u>	NO					
<u>2-1823608-4</u>	NO	·	<u> </u>			<del>-</del>
<u>2-1823608-5</u>	NO					_
<u>2-1924067-0</u>	NO					
<u>2-2203663-6</u>	NO					
<u>2-2203663-8</u>	NO					
<u>2-2203663-9</u>	NO					
2098204-2	NO NO					
2098541-1 2098541-2	NO NO					
2098541-2 2098541-5	NO NO					
2098541-5 2098541-6	NO					
2098546-1	NO		<u> </u>			
2098557-1	NO					
2098557-4	NO					
2098557-7	NO					
2098641-1	NO					
2098641-5	NO					
<u>2098641-6</u>	NO					
<u>2098641-7</u>	NO					
<u>2138041-1</u>	NO					

	Part Discontinued per PCN	Customer Drawing	Alias Part Number(s)	Substitute Part Number	Substitute Alias Part Number(s)	Description Of Difference
<u>2138041-2</u>	NO					
<u>2138042-3</u>	NO					
<u>2138042-6</u>	NO					
<u>2203109-1</u>	NO					
<u>2203109-2</u>	NO					
<u>2203109-6</u>	NO					
<u>2203109-7</u>	NO					
<u>2203332-1</u>	NO					
<u>2203663-5</u>	NO					
<u>2203663-6</u>	NO					
<u>2203663-7</u>	NO					
<u>2203769-1</u>	NO					
<u>2203771-1</u>	NO					
<u>2203773-1</u>	NO					
<u>2203773-2</u>	NO					
<u>2203773-7</u>	NO					
<u>2296694-1</u>	NO					
2296694-2	NO					
<u>2296695-1</u>	NO					
2296695-2	NO					
<u>2296695-4</u>	NO					
<u>2296698-1</u>	NO					
<u>2296698-2</u>	NO					
<u>2296700-3</u>	NO					
<u>2296700-6</u>	NO					
<u>2296702-1</u>	NO					
<u>2300498-1</u>	NO					
<u>2300498-2</u>	NO					
<u>2300498-6</u>	NO					
2300498-7	NO					
2304514-1	NO					
2304514-2	NO					
3-2203663-1	NO					
3-2203663-3 3-2203663-5	NO NO					
4-1456426-1	NO					
<u>4-1456426-1</u> 4-1456426-2	NO					
4-1430420-2 4-1488991-1	NO					
4-1488991-2	NO					
4-1488991-2 4-1924067-1	NO					
4-1924067-1 4-1924067-2	NO					
<del>4-1924007-2</del> <del>4-2098541-1</del>	NO					
4-2098541-2	NO					
4-2098557-1	NO					
<del>4-2098537-1</del> <del>4-2098641-1</del>	NO					
4-2098641-1 4-2098641-2	NO					
<del>4-2038641-2</del> <del>4-2203663-4</del>	NO					
4-2203663-5	NO					
4-2203663-6	NO					
<u>4-2272003-1</u>	NO					
4-2272003-1 4-2272003-2	NO					
<del>4-2272003-2</del> <del>4-2272003-3</del>	NO					
<del>4-2272003-3</del> <del>4-2272003-4</del>	NO					
<del>4-2272003-4</del> <del>4-2272003-5</del>	NO					
<del>4-2272003-3</del> <del>4-2272004-1</del>	NO					
4-2272004-2	NO					
4-2272005-1	NO					
4-2272005-2	NO					
5-2203663-3	NO					
5-2203663-7	NO					
6-2203663-6	NO					
6-2203663-7	NO					
V 44UJUUDT/				i		

Part Number	Part Discontinued per PCN	Customer Drawing	Alias Part Number(s)	Substitute Part Number	Substitute Alias Part Number(s)	Description Of Difference
<u>828904-1</u>	NO		"CF0547-000", "AMP-0-0828904-1", "80.264.00", "8202609390", "8202611101"			
828904-2	NO					
828922-1	NO		"EG9737-000", "AMP-0-0828922-1", "80.263.00", "820A-37376"			
<u>963530-1</u>	NO		"1072609867", "820P-37717", "820P-37904", "43119-000"			
<u>963531-1</u>	NO		"1072607258"			
<u>964972-1</u>	NO					
<u>967067-1</u>	NO		"0-0967067-1", "EG9740-000", "AMP-0-0967067-1"			
<u>967067-2</u>	NO					



# Section 3 Customer Engineering Approval



# Not Applicable



# Section 4 Design FMEA

See Section A for nondisclosure conditions.

The Design FMEA, if included, is a Class II confidential document belonging to TE Connectivity. A class II document may not be further distributed and is subject to the conditions of the nondisclosure agreement.



# **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.



# **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.



# **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.

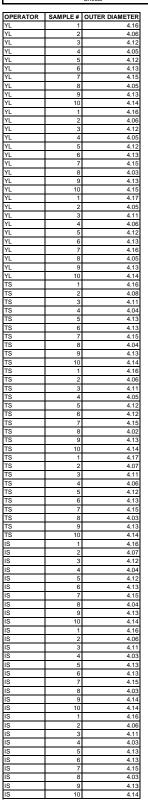
The Control Plan documents contain proprietary information. These documents can be reviewed upon visit to TE Pegg Road facility."

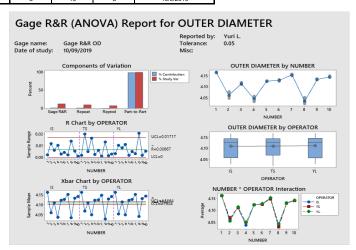


# Section 8 Measurement System Analysis

### GAGE REPEATABILITY AND REPRODUCIBILITY DATA SHEET ANOVA METHOD

Part Number:			Gage Name		Appraiser A:		COMMENTS:	
M188837 - 184141-1			CMM		Y. Ladnovs		COMMENTS:	
Part Name			Gage Number		Appraiser B			
Wire Seal, SSC		QC-010-00086		T. Scott		Gage Repeatability and Reproducibility was done on		
Characteristic	Speci	fication	Gage Type		Appraiser C		part # 967067-2 mold # M1046920	
OUTER DIAMETER	4.10	4.20	Micru-Vu	Excel 502		I. Sayin	part # 307007-2 midd # W1040320	
Characteristic Classification			Trials	Parts	Appraisers	Date Performed		
Critical			3	10	3	10/9/2019	1	





### Gage R&R

#### Variance Components

		%Contribution
Source	VarComp	(of VarComp)
Total Gage R&R	0.0000334	1.57
Repeatability	0.0000219	1.03
Reproducibility	0.0000115	0.54
OPERATOR	0.0000000	0.00
OPERATOR*NUMBER	0.0000115	0.54
Part-To-Part	0.0020914	98.43
Total Variation	0.0021248	100.00

#### **Gage Evaluation**

		Study var	70Study Var
Source	StdDev (SD)	(6 × SD)	(%SV)
Total Gage R&R	0.0057754	0.034652	12.53
Repeatability	0.0046756	0.028053	10.14
Reproducibility	0.0033903	0.020342	7.35
OPERATOR	0.0000000	0.000000	0.00
OPERATOR*NUMBER	0.0033903	0.020342	7.35
Part-To-Part	0.0457319	0.274392	99.21
Total Variation	0.0460952	0.276571	100.00

Number of Distinct Categories = 11



# Section 9 Dimensional Results



# Not Applicable



# Section 10 Material, Performance Test Results

## **Part Submission Warrant**

Part Name Wire Seal, SSC	Cust. Part Number M188837 - 184141-1
Shown on Drawing Number M188837 - 184141-1	Org. Part Number N/A
Engineering Change Level B2	Dated 12/7/2005
Additional Engineering Changes -	Dated
Safety and/or Government Regulation Yes No	Purchase Order No. 270827349 Weight (kg) 0.0670
Visual Standard Numbe - Checking Aid Revision	Level Dated
ORGANIZATION MANUFACTURING INFORMATION CUST	OMER SUBMITTAL INFORMATION
SIMTEC Silicone Parts DUNS: 08-546-6782	TE CONNECTIVITY
Supplier Name & Supplier/Vendor Code	Customer Name/Division
9658 Premier Parkway Street Address	Angulo Arantxa Buyer/Buyer Code
Miramar FL 33025 USA	AUTOMOTIVE
City Region Postal Code Country	Application
MATERIALS REPORTING	prove.
Has customer-required Substances of Concern information been repo	
Submitted by IMDS or other customer format:	<u>184141-1</u> <u>925514428/0.01</u>
Are polymeric parts identified with appropriate ISO marking codes?	925514426/0.01  Yes ✓ No ✓ n/a
REASON FOR SUBMISSION (Check at least one)	front 1 to 1
Initial submission (Check at least one)	Change to Optional Construction or Material
Engineering Change(s)  Tooling: Transfer. Replacement, Refurbishment, or additional	Sub-Supplier or Material Source Change Change in Part Processing
Tooling: Transfer, Replacement, Refurbishment, or additional Correction of Discrepancy	Parts produced at Additional Location
Tooling Inactive > than 1 year	Other - please specify
Level 1 - Warrant only (and for designated appearance items, Level 2 - Warrant with product samples and limited supporting Level 3 - Warrant with product samples and complete support Level 4 - Warrant and other requirements as defined by custo Level 5 - Warrant with product samples and complete support	g data submitted to customer. ting data submitted to customer. omer.
These results friend all design record requirements.	NO (If "NO" - Explanation Required)
TL-010-00006/TL-020-	/ 128 / FG-010-00004
iviola / Gavity / 1 roddotion 1 rosess	
I affirm that the samples represented by this warrant are process that meets all Production Part Approval Process these samples were produced at the production rate of 61,440 Parts per I also certify that documented evidence of such compliar any deviation from this declaration below.  EXPLANATION/COMMENTS: N/A	s Manual 4th Edition Requirements. I further affirm that  4 Hour(s)
Is each Customer Tool properly tagged and numbered?	res No n/a
Organization Authorized Signature	Date 6/3/2020
Print Name Ulas Sevim Phone No.	954 656 4212 Fax No. 608 663 4554
Title Title	@simtec-silicone.com
FOR CUSTOMER USE ONLY (IF	
New York Stephenson	Other
Customer Signature (O) Customer Signature	omer Tracking Number (optional)
Print Name Vishal Shinde Cust	otter tracking recitives (optional)

### **Production Part Approval Material Test Results**

ORGANIZATION:	SIMTE	C Silicone Parts	PART NUMBER:	M188837 - 184141-1
PREPARED BY:		K. Palma	PART NAME:	Wire Seal, SSC
MATERIAL SUPPLIER(S):		COMMENTS:	REVISION LEVEL:	B2
Wacke	r	Elastosil LR 3088/40	) NM	
DTI DTColor K-79324				

#### WACKER

#### Certificate of Analysis

Simtec Silicone Parts LLC 9658 Premier Prkwy Miramar FL 33025

Date of delivery 02/18/2020 Requisition No. 95242 /

Delivery note
26812856
Date of requisition
01/28/2020
Customer No. Fax
25009889 6086634554

Order No. 10826193 / 000002 / 01/28/2020

#### ELASTOSIL® LR 3088/40 NM A US

date of issue: 02/17/2020

Material 60064190 Batch	404577 NET	380.000 kg (837.757 LBS) Date (manu	of 01/30/202 facture	Best us	e before 07/28/2020
Technical data	Test method/Inspection condition	Unit	Measured value	Lower limit	Upper limit
DUROMETER A/B-BLEND NPB	1110	nounit	40	35	
FENSILE A/B-BLEND NPB PSI	1160	psi			45
ELONGATION A/B-BLEND NPB	1160	%		871	•
EAR-B A/B-BLEND NPB PP!	1160			400	•
PECIFIC GRAVITY	1154	lb/in		100	-
URE INITIATION TEMPERATURE		nounit		1.10	1.16
	1359	°C	118.9	114.0	124.0
OMPRESSION SET 22/350 A/B NPB	1114	%	9	0	35

This certificate was issued by machine and is valid without a signature.

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### WACKER

#### Certificate of Analysis

Date of delivery
02/18/2020
Requisition No.
95242 /
Order No.
10826193 / 000003 / 01/28/2020

Delivery note
26812856
Date of requisition
01/28/2020
Customer No. Fux
25009889 6086634554

Customer material PL-010-00001B

### ELASTOSIL® LR 3088/40 NM B US

date of issue: 02/17/2020

Material 60064191 Bate	h 404577 NET	380.000 kg (837,757 LBS) Date of manufacture	01/30/2020 B	Best use before 07/28/2020
Technical data	Test method/Inspection condition	Unit Measur	ed value Lower li	mit Upper limit
DUROMETER A/B-BLEND NPB	1110	nounit 40	35	45
TENSILE A/B-BLEND NPB PSI	1160	psi 1003	871	
ELONGATION A/B-BLEND NPB	1160	% 563	400	1
EAR-B A/B-BLEND NPB PPI	1160	lb/in 146	100	-
PECIFIC GRAVITY	1154	nounit 1.12	1.10	1.16
CURE INITIATION TEMPERATURE	1359	℃ 118.9	114.0	124.0

Wacker Chemical Corporation, Adrian/MI Quality Management, John Poelstra Telefax +1 (517) 266-8012

This certificate was issued by machine and is valid without a signature.

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## DISPERSION TECHNOLOGY, INC.

Tyco 719 Pegg Road Greensboro, NC 27409

Attn: Quality control

### CERTIFICATION

Product Description	DTCOLO	OR K-793	24	
Purchase Order No.	102044929	Date 81V	3/17 DOM: 8/2	alm
Lot No. 20390		Code No.		
Quantity Shipped	) 165°	Date Shipp	m 8125/17	
Packaging 1 X4	Ibs	No. of Pkg	s. Shipped   Pa	<u> </u>
Nominal Composition		Value		
Purple Pigment Silicone		Purple Pig Silicone	ment	
TEST	REQUIREMENT		TEST METHOD	RESULTS
Visual Dispersion Check	Uniform Material Free from any fo	reign matter	DTI Test #D01	2000
Form	Smooth Paste		DTI Test #D02	<u> </u>
Color Comparison	Match Standard		DTI Test #D03	ons
			certify that the about to meet all DTI specif	

ime of manufacture.

Dispersion Technology, Inc.





1885 SWARTHMORE AVENUE • P.O. BOX 300 • LAKEWOOD, NJ 08701 • (732) 364-4488 • FAX (732) 364-101



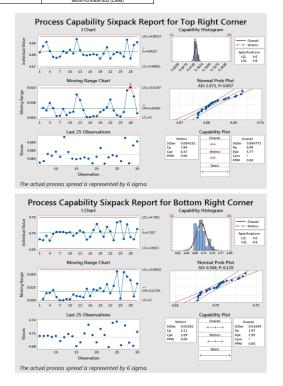
# Section 11 Initial Process Studies

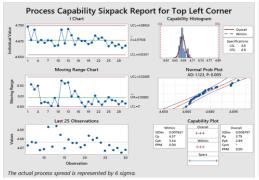
### Production Part Approval Capability Study

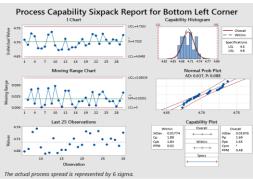
ORGANIZATION:				M188837 - 184141-1
PREPARED BY:			PART NAME:	
INSPECTION F		COMMENTS:	REVISION LEVEL:	
SIMTEC Silicon	ne Parts	Dim 22	TE	ST DEVICE:

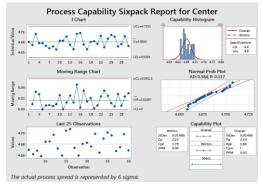


#	Top Right Corner	Top Left Corner	Bottom Left Corner	Bottom Right Corner	Center
LSL	4.60	4.60	4.60	4.60	4.60
USL	4.80	4.80	4.80	4.80	4.80
Dim	4.70	4.70	4.70	4.70	4.70
- 1	4.6821	4.698	4.7089	4.6812	4.6813
2	4.6872	4.6769	4.6911	4.6788	4.6718
3	4.6911	4.6933	4.7311	4.6923	4.7043
4	4.6832	4.6733	4.7219	4.6778	4.677
5	4.6782	4.6768	4.6796	4.6978	4.677
6	4.6773	4.6724	4.6784	4.7042	4.6697
7	4.6783	4.6763	4.6847	4.7038	4.6619
8	4.6829	4.6757	4.7276	4.7043	4.6681
9	4.6816	4.6673	4.7367	4.7015	4.6584
10	4.6843	4.6684	4.6888	4.7036	4.6845
- 11	4.6811	4.6932	4.6726	4.6923	4.6849
12	4.6934	4.6711	4.6748	4.7006	4.6973
13	4.684	4.6941	4.7121	4.7084	4.6723
14	4.6799	4.6843	4.6745	4.7029	4.6597
15	4.6796	4.6695	4.6823	4.6807	4.7046
16	4.6799	4.6792	4.6826	4.689	4.7075
17	4.6807	4.6752	4.6965	4.71	4.6736
18	4.6799	4.6753	4.7111	4.7295	4.6597
19	4.6769	4.6704	4.6891	4.7062	4.6805
20	4.681	4.6729	4.6951	4.689	4.6826
21	4.6865	4.6835	4.7296	4.7198	4.6757
22	4.6768	4.6788	4.7242	4.7059	4.699
23	4.6807	4.6808	4.6947	4.6781	4.665
24	4.6821	4.6757	4.7302	4.7337	4.6899
25	4.6814	4.6667	4.7096	4.737	4.7013
26	4.6784	4.673	4.6959	4.6824	4.6961
27	4.6929	4.6672	4.7108	4.7279	4.6678
28	4.6769	4.6697	4.7079	4.6886	4.6745
29	4.6882	4.6646	4.6925	4.6812	4.6982
30	4.6906	4.6677	4.7259	4.7135	4.6686











# Section 12 Qualified Laboratory Documentation

**DNV-GL** 

# MANAGEMENT SYSTEM CERTIFICATE

Certificate No.: 275742-2018-AQ-USA-ANAB Initial date: 21 September, 2018 Valid until: 20 September, 2021

This is to certify that the management system of

### Simtec Silicone Parts LLC

9658 Premier Parkway, Miramar, FL 33025

has been found to conform to quality management system standard:

ISO 9001:2015

This certificate is valid for the following Scope:

MANUFACTURE OF ELASTOMER PRODUCTS

Place and date: Katy, TX 24 September, 2018





For the issuing office: DNV GL - Business Assurance 1400 Rayello Drive

Robert Kozak Management Representative

# MANAGEMENT SYSTEM CERTIFICATE

Certificate No.: 169798-2014-AQ-USA-IATF

Valid until:

21 September, 2018 - 20 September, 2021

IATF Certificate No.: 0335158

This is to certify that the management system of

### Simtec Silicone Parts LLC

9658 Premier Parkway, Miramar, FL 33025 and, if applicable, the remote support locations as mentioned in the Appendix accompanying this Certificate

has been found to conform to quality management system standard:

IATF 16949:2016

This certificate is valid for the following Scope:

MANUFACTURE OF ELASTOMER PRODUCTS

**EXCLUSIONS: 8.3 PRODUCT DESIGN** 

Place and date: Katy, TX. 24 September 2018





For the issuing office: DNV GL - Business Assurance Katy, TX, USA

Management Representative

# Production Part Approval CALIBRATION

ORGANIZATION:	SIMTE	C Silicone Parts	PART NUMBER:	M188837 - 184141-1
PREPARED BY:	K. Palma		PART NAME:	Wire Seal, SSC
INSPECTION F	ACILITY:	COMMENTS:	REVISION LEVEL:	B2
SIMTEC Silico	ne Parts			

Where possible calibration certificates include the mark of a national accreditation body. Exceptions include instruments where calibration provided is specified/limited by device manufacturer, customer calibrated devices, and internally calibrated devices. SIMTEC maintains calibration vender has ISO 17025 certification or acceptable standard.



645 NW Enterprise Drive Suite 106 Port Saint Lucie FL 34986 Tel: 772-212-7158/Fax: 772-212-+7706 www.floridametrology.com



### Certificate of Calibration

	Certificate No. 104577							
Customer Informa	ation		Calibration Informat	ion				
9658 PREMIER PAI MIRAMAR, FL 330	SIMTEC SILICONE PARTS, LLC 9658 PREMIER PARKWAY MIRAMAR, FL 33025		As Found As Left Calibration Date: Next Due:	In Tolerance In Tolerance 9/30/2019 9/30/2020				
Equipment Inform ID Number: Type: Description	SSP002 400X500X250 VISION MACHINE	_	Temperature: Humidity: Procedure:	73 °F 67 % PPCA405 PPCA101				
Manufacturer:	MICROVU		Purchase Order	94636				
Model: Serial Number: Department:	EXCEL 502 UC EC502UC01025		Base Information Software: Frame Grabber:	2.94.0286.08 CRONOS				
		T-1						

Description	Std. Nominal	Tole -	erance +	As Found	As Left	Units	ı
Largest Error	0.0000	0.0000	0.0053	0.0052	0.0018	Millimeters	
Linearity	0.0000	0.0000	0.0055	0.0000	0.0000	Millimeters	
	40.0000	39.9945	40.0055	40.0007	39.9995	Millimeters	
	90.0000	89.9945	90.0055	90.0023	90.0003	Millimeters	

"A" - Adjusted and returned in tolerance "F" - Indicates out of tolerance result

Standards Used	I.D. Number	Last Cal.	Cal. Due
50MM GAGE BLOCK	FM03120	4/1/2019	4/1/2020
100MM GAGE BLOCK	FM05120	4/1/2019	4/1/2020
10MM GAGE BLOCK	FM05195	4/1/2019	4/1/2020
GLASS GRID 300X287	FM12312	12/31/2017	12/31/2019
TEMPERATURE PEN	FM170677321	6/8/2018	6/8/2020
TEST INDICATOR	FMIND-0003	3/29/2019	3/29/2020

Uncertainty for X, Y Linearity ("Largest Error"): +/- (1.1 + 0.004L) µm where L = nominal length in mm.

Uncertainty for Z Linearity: +/- (4.1 + 0.002L) µm where L = nominal length in mm.

Both Vision machines share the same desktop profile.

Florida Metrology LLC, certifies that the instrument listed above has been tested, calibrated (if necessary), and meets the criteria established in the associated test procedure unless otherwise noted. The standards used are traceable to the National Institute of Standards and Technology (NIST). Florida Metrology, LLC calibration and control system meets the general requirements for the competence of calibration and testing laboratories (ISO/IEC 17025-2005). This uncertainty represents an expanded uncertainty expressed at approximately 95% confidence level using coverage factor of k=2. Statements of complaince, where applicable, are based upon the test results falling within the specified limits with no reduction by the uncertainty of the measurement. The calibration interval has been specified by the customer. Any number of factors may cause the calibration to drift out of tolerance before the recommended interval has expired. This Certificate of Calibration shall not be reproduced, except in full, without the written approval of Florida Metrology, LLC

MARK CRUME	Mark Cinne	9/30/2019		
Serviced By	Signature	Date		





# Certificate of Registration

QUALITY MANAGEMENT SYSTEM - IATF 16949:2016

This is to certify that: TE Connectivity

Global Automotive Division

Americas North 719 Pegg Road Greensboro North Carolina

27409 USA

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: 514458-007

IATF Number: 0338830

Page: 1 of 3

bsi.

Certification Date: 2018-10-18 Latest Issue: 2018-10-18

...making excellence a habit."

Expiry Date: 2021-10-17

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.

#### Location

TE Connectivity Global Automotive Division **Americas North** 719 Pegg Road Greensboro North Carolina 27409 **USA** 

### Registered Activities

Design and manufacture of electrical interconnecting devices.

Including the following remote support functions:

TE Connectivity Global Automotive Division Americas North 3800 Reidsville Road Winston-Salem North Carolina 27102 USA Supplier management, Sales, Testing, Product design

TE Connectivity

Americas North 20 Esna Park Drive Markham Ontario L3R 1E1

Global Automotive Division

Canada Testing, Product design

TE Connectivity Global Automotive Division Americas North 1901 Fulling Mill Road Middletown Pennsylvania 17057 USA

Customer service, Testing, Product design

TE Connectivity Global Automotive Division **Americas North** 900 Wilshire Boulevard Suite 150 Troy Michigan 48084 USA Product design

BSI Certificate Number: 514458-007

IATF Number: 0338830





Certification Date: 2018-10-18 Latest Issue: 2018-10-18 Expiry Date: 2021-10-17

Page: 2 of 3

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

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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 North Carolina Distribution Center 8000 Piedmont Triad Parkway Greensboro North Carolina 27409 USA Warehousing

TE Connectivity Global Automotive Division Americas North 2100 Paxton Street Harrisburg Pennsylvania 17111 USA **Testing** 

TE Connectivity 3900 Reidsville Road Winston Salem North Carolina 27101 USA **Testing** 

TE Connectivity 3920 Reidsville Road Winston Salem North Carolina 27101 **USA Testing** 

Including the following extended manufacturing sites:

TE Connectivity Global Automotive Division Americas North 233 Burgess Road Greensboro North Carolina 27409 USA

Design and manufacture of electrical interconnecting devices

BSI Certificate Number: 514458-007

IATF Number: 0338830





Certification Date: 2018-10-18 Latest Issue: 2018-10-18 Expiry Date: 2021-10-17

Page: 3 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.



# 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



# Records of Compliance with Customer-Specific Requirements

IMDS ID / Version: 5195935 / 10 Page: 1 / 2

User: Pujol, Christian Date: 8/3/20 11:47:25 PM

# 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 Part/Item No.: 0-0184141-1

[913]

DUNS Number: - Description: Wire Seal SSC.-Purple

Street/Postal Code: Amperestr. 12-14 Report No.: Nat./ZipCode/City: DE 64625 Bensheim Date of Report: Supplier Code: - Purchase Order No.: -

Contact Person: IMDS Team (India) Bill of Delivery No.:

**Engineering Services** 

- Phone: - Preliminary MDS: **No** 

- Fax No.: - IMDS ID / Version: 5195935 / 10 - E-Mail Address: IMDS@te.com Node ID: 535985242

E-Mail Address: IMDS@te.com Node ID: 535985242

MDS Status (Change Internally released

Date): (05/08/2015)

1.2 Product Identification

IMDS ID / Version: 5195935 / 10 Page: 2 / 2

User: Pujol, Christian Date: 8/3/20 11:47:25 PM

# MDS Report Substances of assemblies and materials

Materials which are subject to legal prohibitions must not be included!

Dangerous substances formed or released during use must also be declared

Please note: GADSL list for substances that require declaration

## 2. Characterization of the Component

Part/Item No.: **0-0184141-1** Report No.: -

 Description:
 Wire Seal SSC.-Purple
 IMDS ID / Version:
 5195935 / 10

 Node ID:
 535985242

Tree Level	Description Article Name Name Substance name	Part/Item No. Item- /MatNo. Material-No. CAS No.	IMDS ID / Version	Quantity	© → 🐁 Weight	Portion	Portion (from - to) [%]	Classif.  GADSL, SVHC	<ul> <li>□ Parts Marking</li> <li>□ Recyclate         (Indust./Consumer)</li> <li>□ Application [ID]</li> </ul>		
1	Wire Seal SSCPurple	<b>0</b> -0184141-1	5195935 / 10		0.0784				Not Applicable		
-2	<b>№</b> VMQ	<b>\$</b> TEC-100-1167	54383203 / 8		0.0784			<b>\$</b> 5.3	<b>№</b> No		
-3	Pigment portion, not to declare	system				1	0 - 2				
-3	<b>♦</b> ∨MQ	4 -				99					
	This is an uncontrolled copy of a document created by IMDS. End of the report.										



# Section 18 Part Submission Warrant

### **Part Submission Warrant**

Part Name				Cust. Part N	Number		
Shown on Drawing Number				Org.Part N	Number		
Engineering Change Level					Dated		
Additional Engineering Changes				<u> </u>	Dated		
Safety and/or Government Regulation	ı Yes	No	Purchas	e Order No.		Weight (kg)	
Checking Aid Number	Check	ing Aid Engineering (		_		_	
ORGANIZATION MANUFACTU					BMITTAL INFO	RMATION	
Organization Name and Supplier Cod	e		Custo	omer Name/D	ivision		
Street Address			Buye	r/Buyer Code			
City Region	Postal Code	Country	Appli	cation			
MATERIALS REPORTING Has customer-required Substance of Submitted	Concern information bee	•			Yes	No	NA
Are polymeric parts identified with app REASON FOR SUBMISSION (Check Initial submission Engineering Change(s) Tooling: Transfer, Replacem Correction of Discrepancy Tooling Inactive > than 1 year	c at least one) ent, Refurbishment, or a			S C F	Sub-Supplier or Ma Change in Part Pro	Additional Location	nge
REQUESTED SUBMISSION LEVEL Level 1 - Warrant only (and f Level 2 - Warrant with produ Level 3 - Warrant with produ Level 4 - Warrant and other i Level 5 - Warrant with produ SUBMISSION RESULTS The results for dimensiona These results meet all design record of the design record of t	or designated appearanct samples and limited soft samples and complete requirements as defined at measurement requirements:	upporting data submite supporting data subby customer. e supporting data review material and funct Yes	tted to custom mitted to cust ewed at supp ional tests No (If "No"	ner. omer. lier's manufac appear - Explanation by a process t	cturing location. rance criteria Required) that meets all Produ	statistical proce	ess package
I also certify that documented evidence  EXPLANATION/COMMENTS	of such compliance is on	file and is available for	review. I have	e noted any de	viations from this d	eclaration below.	
Is each Customer Tool properly tagge	ed and numbered?	<u> </u>	⁄es	No	NA		
Organization Authorized Signature	Pa	ablo Guillern	no Timi	enez		Date	
Print Name		Phone No.			Fax_	_	
Title		Email					
PPAP Warrant Disposition :	FOR C	CUSTOMER USE ON Rejected	LY (IF APPL)	ICABLE)			
Customer Signature						Date	
Print Name			Customer Trac	cking Number	(optional)		



# Section 18a **Bulk Material Requirements**



# Not Applicable