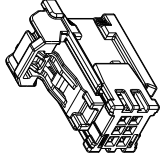


LTRS		REVISIONS		1	
ORIGINATOR	CHECKER	ENGR APP	MATL APP		
A RELEASED LU5T-14489-LA, -MA AEL-E-11769390-426		W. LYONS		A. SANKOVICH	
D. IRISH		20170322		SUMITOMO	
REVISED LU5T-14489-LA, -MA AEL-E-11769390-426		20170322		SUMITOMO	
B2 WAS 320		B3 UPDATED NOTES			
B4 WAS 283		B5 UPDATED TERMINAL CAVITY MIN/MAX OD			
B6 ADDED DIMENSION		B7 ADDED DIMENSION			
B8 ADDED DIMENSIONS		AEL-E-11769390-465			
Y. INAMI		F. MAGDOA		SUMITOMO	
20180523					

LTRS		REVISIONS		1	
ORIGINATOR	CHECKER	ENGR APP	MATL APP		
A RELEASED LU5T-14489-LA, -MA AEL-E-11769390-426		W. LYONS		A. SANKOVICH	
D. IRISH		20170322		SUMITOMO	
REVISED LU5T-14489-LA, -MA AEL-E-11769390-426		20170322		SUMITOMO	
B2 WAS 320		B3 UPDATED NOTES			
B4 WAS 283		B5 UPDATED TERMINAL CAVITY MIN/MAX OD			
B6 ADDED DIMENSION		B7 ADDED DIMENSION			
B8 ADDED DIMENSIONS		AEL-E-11769390-465			
Y. INAMI		F. MAGDOA		SUMITOMO	
20180523					

LTRS		REVISIONS		1	
ORIGINATOR	CHECKER	ENGR APP	MATL APP		
A RELEASED LU5T-14489-LA, -MA AEL-E-11769390-426		W. LYONS		A. SANKOVICH	
D. IRISH		20170322		SUMITOMO	
REVISED LU5T-14489-LA, -MA AEL-E-11769390-426		20170322		SUMITOMO	
B2 WAS 320		B3 UPDATED NOTES			
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B6 ADDED DIMENSION		B7 ADDED DIMENSION			
B8 ADDED DIMENSIONS		AEL-E-11769390-465			
Y. INAMI		F. MAGDOA		SUMITOMO	
20180523					

LTRS		REVISIONS		1	
ORIGINATOR	CHECKER	ENGR APP	MATL APP		
A RELEASED LU5T-14489-LA, -MA AEL-E-11769390-426		W. LYONS		A. SANKOVICH	
D. IRISH		20170322		SUMITOMO	
REVISED LU5T-14489-LA, -MA AEL-E-11769390-426		20170322		SUMITOMO	
B2 WAS 320		B3 UPDATED NOTES			
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B6 ADDED DIMENSION		B7 ADDED DIMENSION			
B8 ADDED DIMENSIONS		AEL-E-11769390-465			
Y. INAMI		F. MAGDOA		SUMITOMO	
20180523					

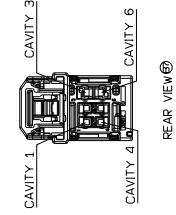
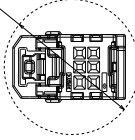


ISOMETRIC VIEW

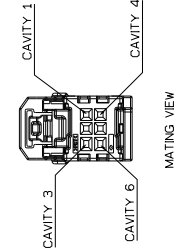
CONNECTOR ASSEMBLY CHART			
ASSEMBLY PART NO.'S		MATING COMPONENT	
FORD COMPONENT CLASS	SUPPLIER COMPONENT NO.	VIBRATION CLASS	FORD COMPONENT NO.
LU5T-14489-LB	6098-8723	100° C V1	LU5T-144A489-CB
LU5T-14489-MB	6098-8728	100° C V1	LU5T-144A489-DB
TBD	6098-8729	100° C V1	TBD
TBD	6098-8730	100° C V1	TBD

ITEM	DESCRIPTION	COLOR	FORD COMPONENT PART NO.	SUPPLIER COMPONENT PART NO.	MATERIAL/SPEC NO.	RECYCLING CODE	WEIGHT	NO. OF ITEMS REQUIRED
1	FEMALE HOUSING KEY A	BLACK	N/A	6098-8734	PBT/WSS-M89P23-B	PBT	2.6g	1
2	FEMALE HOUSING KEY B	GRAY	N/A	6098-8739	PBT/WSS-M89P23-B	PBT	2.6g	1
3	FEMALE HOUSING KEY C	BROWN	N/A	6098-8741	PBT/WSS-M89P23-B	PBT	2.6g	1
4	FEMALE HOUSING KEY D	GREEN	N/A	6098-8748	PBT/WSS-M89P23-B	PBT	2.6g	1
5	FEMALE TPA	NATURAL	N/A	6910-8054	PBT/WSS-M89P23-B	PBT	0.6g	1

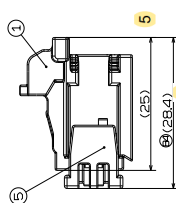
Ø.25±.4
MINIMUM PASS-THROUGH CONDITION
FOR CONNECTOR ASSEMBLY
(2mm TOTAL CLEARANCE ACROSS
THE CIRCUMSCRIBED DIAMETER)



REAR VIEW

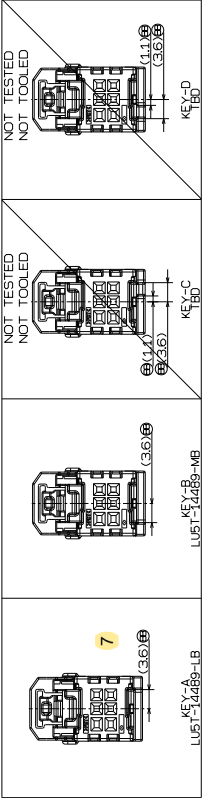


MATING VIEW



- NOTES:
- PARTS CONFORM TO THE ELECTRICAL CONNECTION SYSTEM DESIGN SPECIFICATION (SDS) VER21.
 - PARTS CONFORM TO THE LATEST LEVEL OF USCAR 2, REV6 DATED FEB 2013, WITHIN THE FOLLOWING EXCEPTIONS:
 - 3. MAXIMUM MATING FORCE FULLY POPULATED WITH TIN TERMINALS: 24.9N(⑤)
 - 4. TERMINAL EXTRACTION TOOLS: 0.64: 1718001-*** (***REVISION NO.⑥)
 - 5. N/A
 - 6. CONNECTOR IS RATED AS ERGONOMIC CLASS 2 BASED ON USCAR-25 REV 3. CONNECTOR PUSH SURFACE AREA IS 120.0mm². ⑥
 - 7. N/A

CAVITY IDENTIFICATION



GENERAL TOLERANCES			
10MAX	50MAX	100MAX	250MAX
±0.3	±0.5	±0.8	±1.4
			±2.0
			±30°
			±0.15

LU5T-14489-MB

Sumitomo Motor Company

DRW SIZE A1

Sumitomo Electric Wiring Systems, NC.-Components Division

PROCESS FLOW DIAGRAM

KEY CONTACT/DEPT. LOC. Debbie Gillenwater/Leroy Roth-QA Dept.
PHONE (270) 237-5419-X8563 & 8555 FAX (270) 237-4653

PRODUCT : Various Assembled Parts
PROCESS: Assembled Molded Parts
Supplier/Loc. SEWS-FR1
Mfg. Sup.: DJ Barnes
Prepared By: John Fraim/Eli Jones

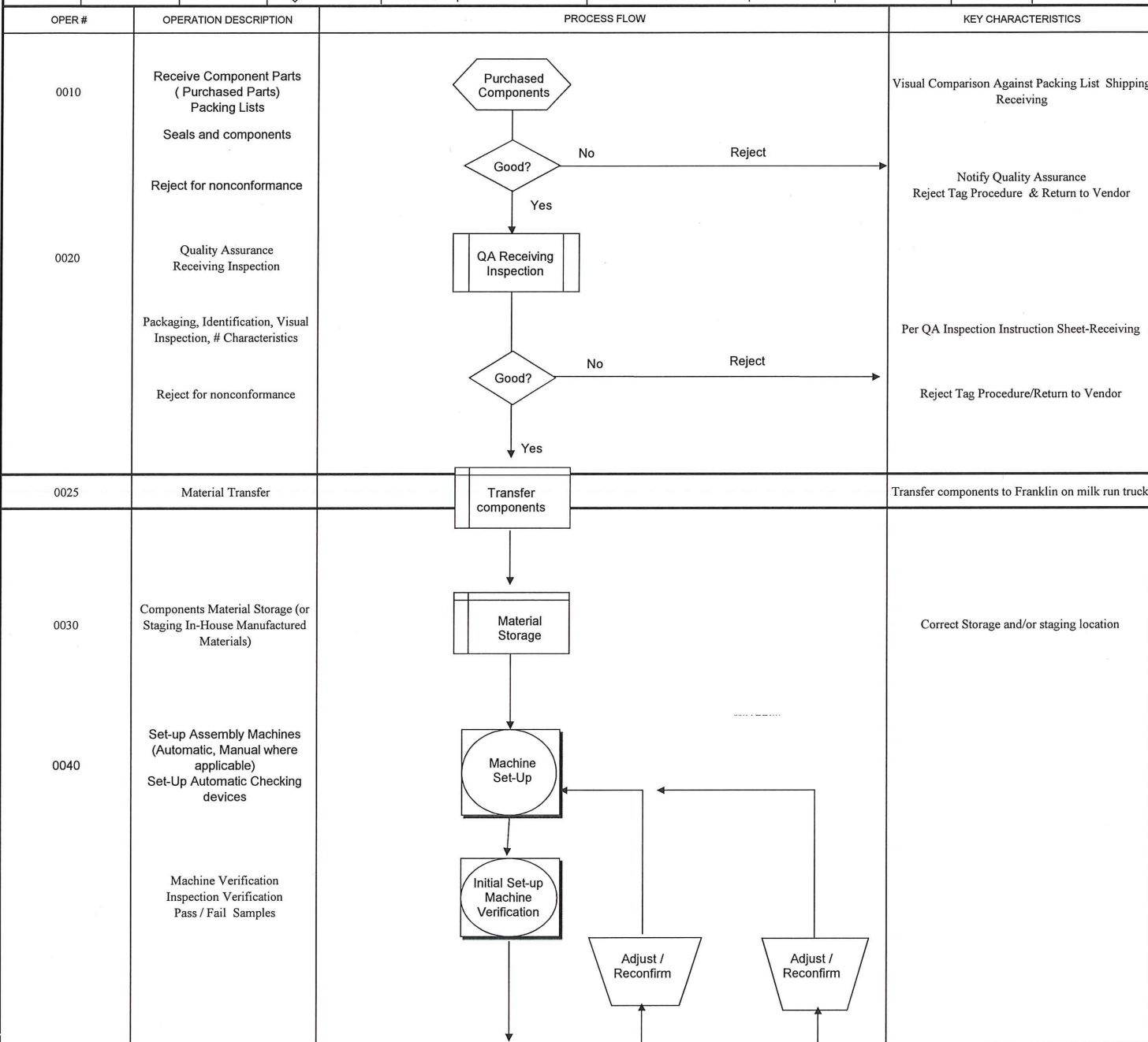
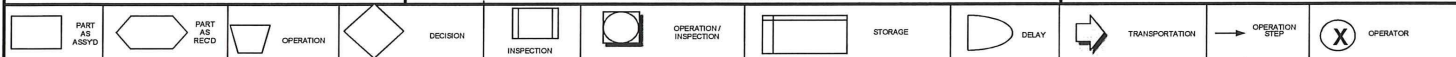
SUPPLIER APPROVALS:
Plant Manager [Signature]
Quality Manager [Signature]
Other Approval _____

CUSTOMER APPROVALS:(IF REQUIRED)

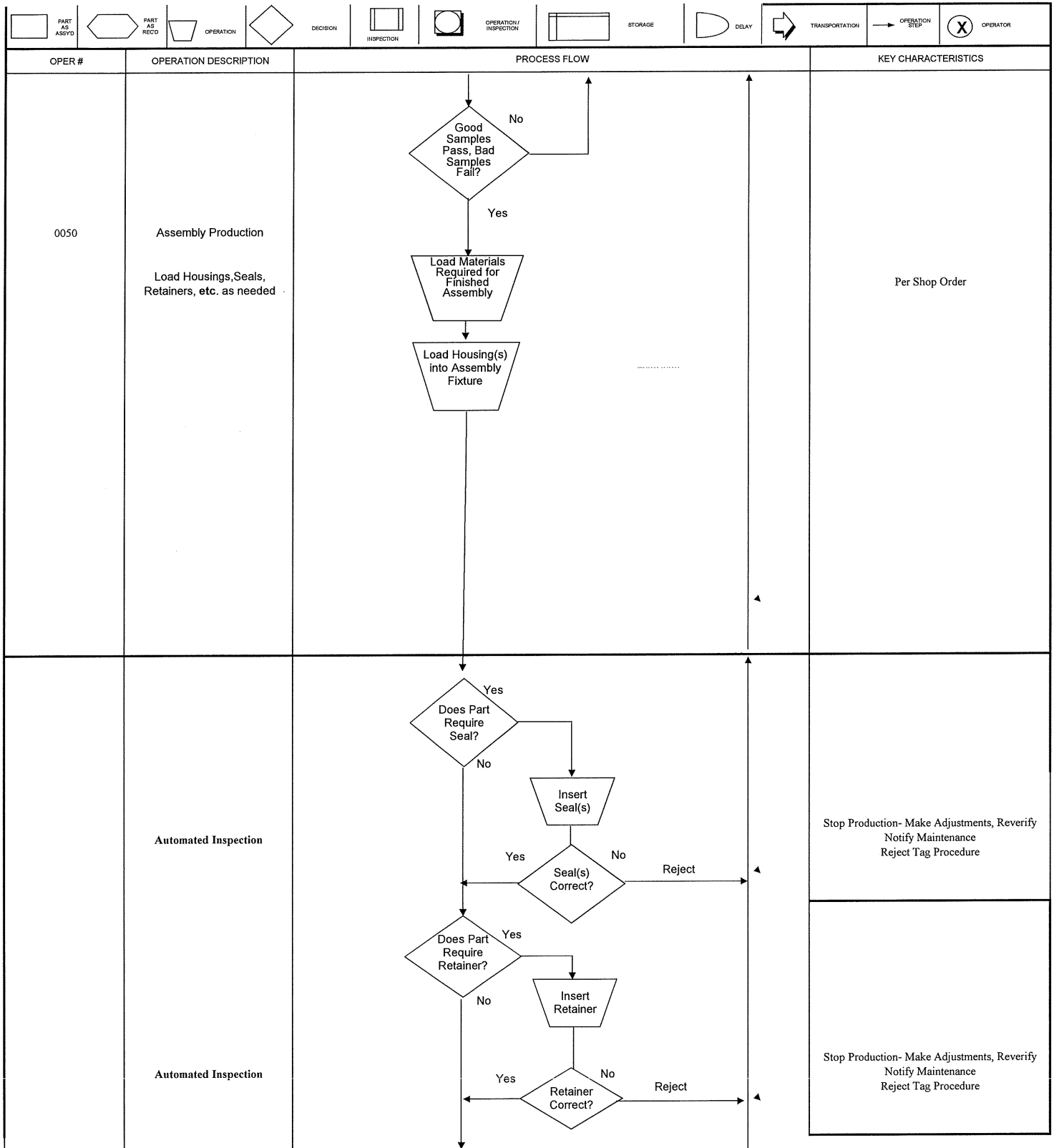
1.19.18 Franklin Initial

DATE CHANGE POINTS CORE/DEV. TEAM

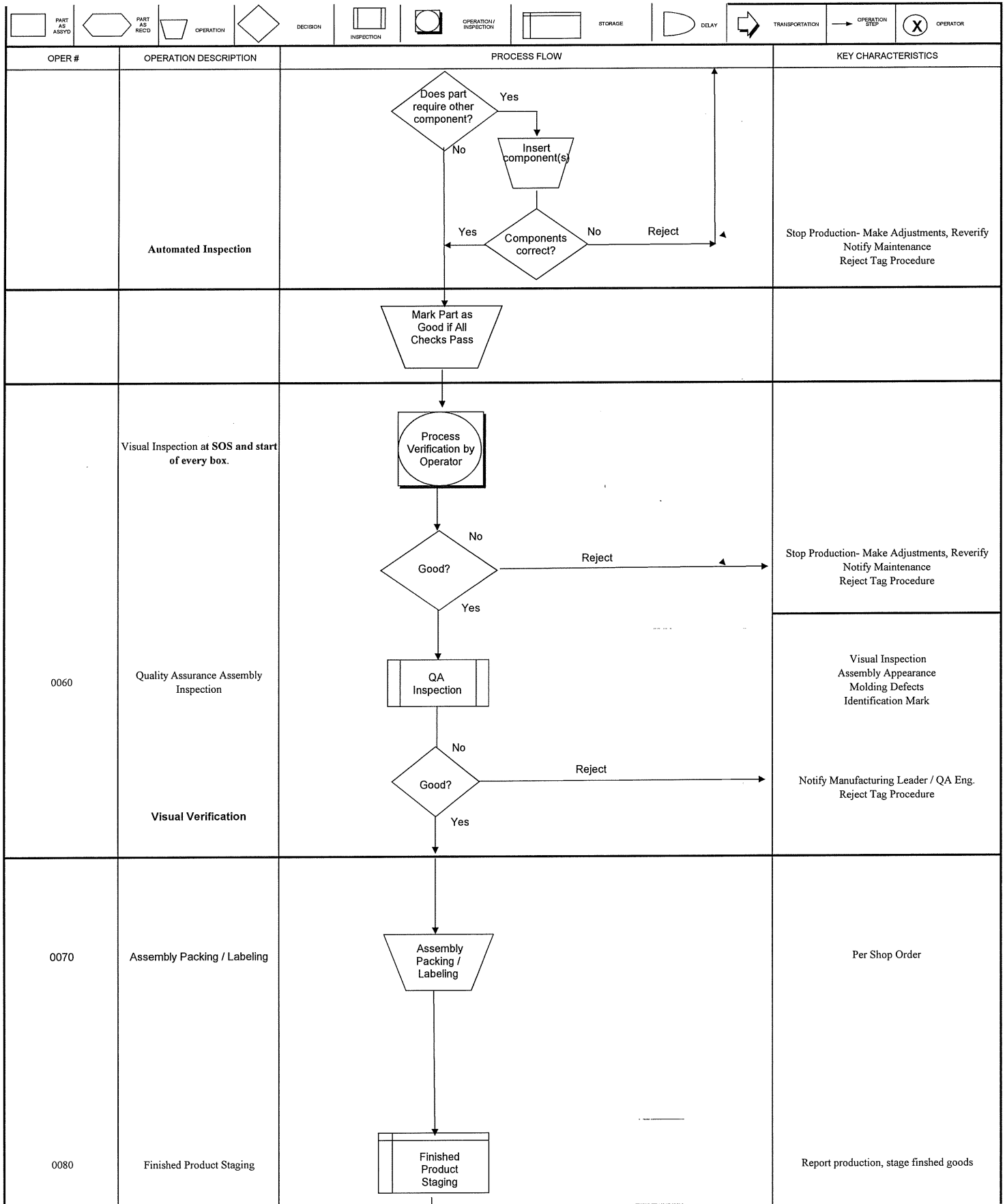
ISSUE/REVISION HISTORY



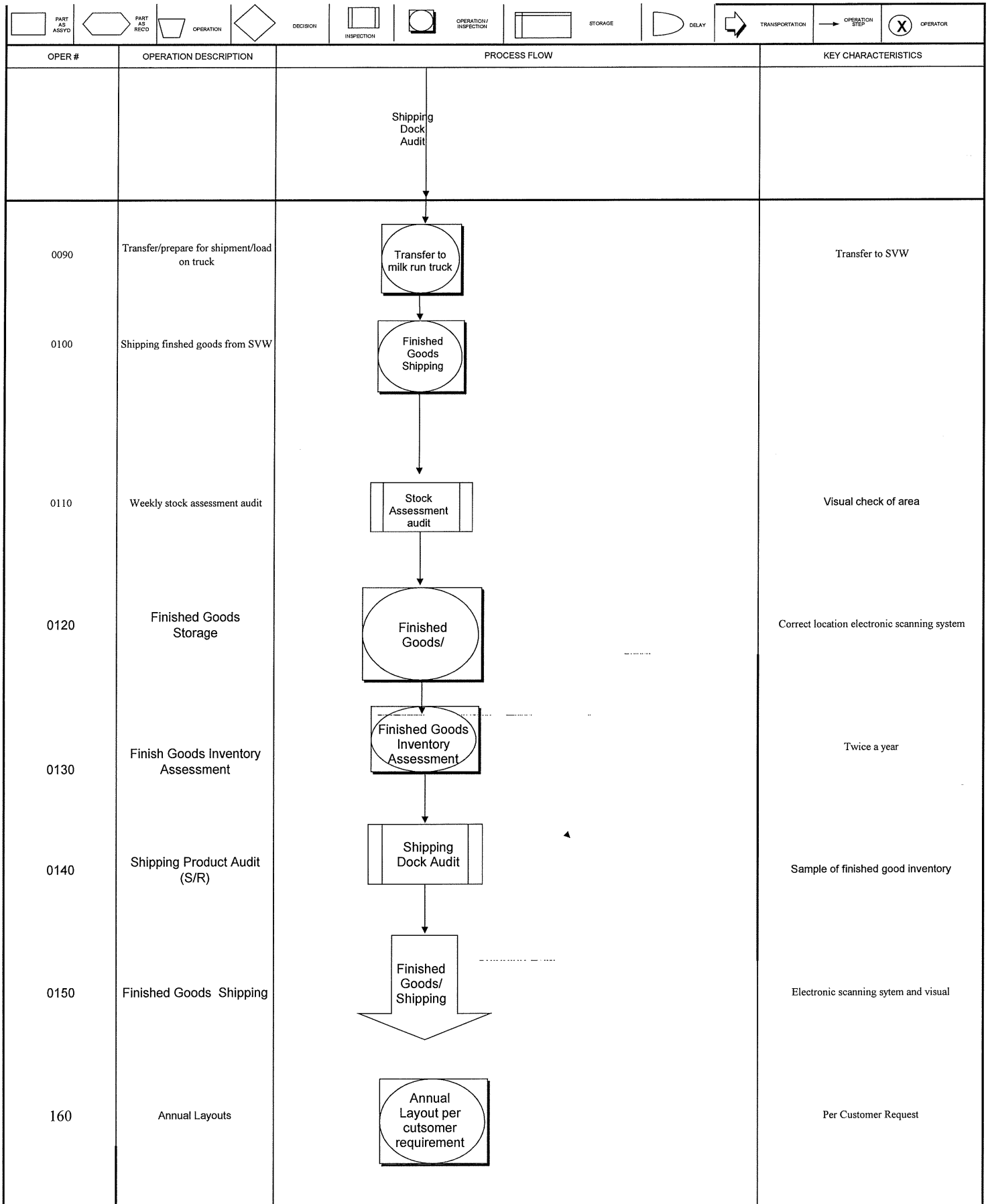
Sumitomo Electric Wiring Systems, NC.-Components Division



Sumitomo Electric Wiring Systems, NC.-Components Division



Sumitomo Electric Wiring Systems, NC.-Components Division



Sumitomo Electric Wiring Systems, Inc

Gage R&R Study

04/03/2019

Page 1 of 2

Study Date: 1/8/2019 12:00:00 AM

Company Part No.: Mold 268

Gage ID: 05476117

Part No.:

Gage Desc: 0 - 150 Caliper

Part Desc: HW09-RET-06F

Appraisers: 3

Trials: 3

Parts: 10

Characteristic: Length

Study Type:

Specification Limits: Min 19.7 Max 20.1

MSA Version: 4

☒ Approved

Pp (or Ppk) Target

6-Sigma Proc Variation

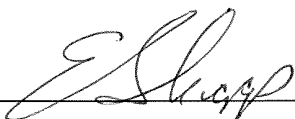
Appr A: T. Holland				Appr B: E Skaggs				Appr C: M Haddix			
1	20.1	20.09	20.09	20.09	20.09	20.1	20.09	20.09	20.09	20.09	20.09
2	20.03	20.02	20.02	20.02	20	20.01	20.03	20.03	20.03	20.03	20.03
3	19.68	19.67	19.67	19.67	19.68	19.67	19.68	19.68	19.68	19.67	19.67
4	20.08	20.07	20.07	20.07	20.07	20.07	20.08	20.07	20.07	20.07	20.07
5	19.81	19.81	19.8	19.8	19.81	19.8	19.81	19.8	19.8	19.8	19.8
6	20.04	20.03	20.03	20.03	20.04	20.04	20.05	20.05	20.05	20.04	20.04
7	20.09	20.09	20.09	20.09	20.1	20.09	20.08	20.09	20.09	20.1	20.1
8	19.64	19.64	19.65	19.63	19.63	19.64	19.64	19.63	19.63	19.64	19.64
9	20.08	20.08	20.08	20.07	20.08	20.08	20.07	20.08	20.08	20.08	20.08
10	19.67	19.67	19.68	19.68	19.68	19.67	19.68	19.67	19.67	19.68	19.68

	Std. Dev.	% Contribution	% TV	% Tol		
Repeatability (EV):	0.005317	0.1%	3.7%	8.0%	R bar:	0.009000
Reproducibility (AV):	0.001448	0.0%	1.0%	2.2%	UCL-R:	0.023220
Appraiser x Part (INT):					Study Variation:	0.143074
GRR:	0.005511	0.1%	3.9%	8.3%	Total Variation (TV):	0.143074
Part-to-Part (PV):	0.142968	99.9%	99.9%	99.7%	Tolerance/6 (Tol):	0.066667
number of distinct categories:			36.6	17.0		

* Limit of individual R's (range values). An (*) is used to identify those sets of measurements that have a Range value that exceeds the UCL-R limit value. Correct by repeating those readings using the same appraiser and part or discard the values and recalculate the study results and the value UCL-R.

Comments:

Approved By:



Date:

4/3/19

GRR Analysis Sheet

Study Date: 1/8/2019 12:00:00 AM Gage ID: 05476117 Gage Desc: 0 - 150 Caliper Appraisers: 3 Trials: 3 Study Type: Long-AIAG 4		Company Part No.: Mold 268 Part No.: Part Desc: HW09-RET-06F Characteristic: Length Specification Limits: 19.7 20.1																					
R bar A = 0.008000 X bar A = 19.919000 R bar B = 0.010000 X bar B = 19.916667 R bar C = 0.009000 X bar C = 19.920000 R bar = 0.0090000 X bar Diff = 0.003333		6 Sigma Process Variation: Pp (or Ppk) Target: Rp = 0.454443 Tol/6 = 0.066667																					
Measurement Unit Analysis		% Total Variation (TV)	% Tolerance																				
Repeatability - Equipment Variation (EV) $EV = R \text{ bar} \times K1$ = 0.005317 <table border="1" style="margin-left: 20px;"> <tr> <th>Trials</th> <th>K1</th> </tr> <tr> <td>2</td> <td>0.8862</td> </tr> <tr> <td>3</td> <td>0.5908</td> </tr> </table>		Trials	K1	2	0.8862	3	0.5908	$\% EV = 100 [EV / TV]$ = 3.7%	$\% EV = 100 [EV / (Tol / 6)]$ = 8.0%														
Trials	K1																						
2	0.8862																						
3	0.5908																						
Reproducibility - Appraiser Variation (AV) $AV = \sqrt{[(X \text{ bar Diff} \times K2)^2 - (EV^2 / n \times r)]}$ = 0.001448 <table border="1" style="margin-left: 20px;"> <tr> <th>Appraisers</th> <th>2</th> <th>3</th> </tr> <tr> <th>K2</th> <td>0.7071</td> <td>0.5231</td> </tr> </table> Note: If a negative value is calculated under the square root sign, AV defaults to zero. n = number of parts r = number of trials		Appraisers	2	3	K2	0.7071	0.5231	$\% AV = 100 [AV / TV]$ = 1.0%	$\% AV = 100 [AV / (Tol / 6)]$ = 2.2%														
Appraisers	2	3																					
K2	0.7071	0.5231																					
Repeatability and Reproducibility (GRR) $GRR = \sqrt{(EV^2 + AV^2)}$ = 0.005511		$\% GRR = 100 [GRR / TV]$ = 3.9%	$\% GRR = 100 [GRR / (Tol / 6)]$ = 8.3%																				
Part Variation (PV) $PV = R_p \times K3$ = 0.142968	<table border="1"> <tr> <th>Parts</th> <th>K3</th> </tr> <tr><td>2</td><td>0.7071</td></tr> <tr><td>3</td><td>0.5231</td></tr> <tr><td>4</td><td>0.4467</td></tr> <tr><td>5</td><td>0.4030</td></tr> <tr><td>6</td><td>0.3742</td></tr> <tr><td>7</td><td>0.3534</td></tr> <tr><td>8</td><td>0.3375</td></tr> <tr><td>9</td><td>0.3249</td></tr> <tr><td>10</td><td>0.3146</td></tr> </table>	Parts	K3	2	0.7071	3	0.5231	4	0.4467	5	0.4030	6	0.3742	7	0.3534	8	0.3375	9	0.3249	10	0.3146	$\% PV = 100 [PV / TV]$ = 99.9%	$\% PV = 100 [PV / (Tol / 6)]$ = 99.7%
Parts	K3																						
2	0.7071																						
3	0.5231																						
4	0.4467																						
5	0.4030																						
6	0.3742																						
7	0.3534																						
8	0.3375																						
9	0.3249																						
10	0.3146																						
		In MSA4, for % Tolerance, $PV = \text{SQRT}[(Tol / 6)^2 - (GRR)^2]$																					
		ndc = 1.41(PV/GRR) = 36.6	ndc = 1.41(PV/GRR) = 17.0																				
Total Variation (TV) $TV = \sqrt{(GRR^2 + PV^2)}$ = 0.143074		If the 6 sigma process variation is known, then TV = [6 sigma process variation] / 6.00 and $PV = \text{SQRT}[(TV^2) - (GRR)^2]$.																					



Blanket statements of conformance are unacceptable for any test results

<u>SIGNATURE</u>	<u>TITLE</u>	
Cindy Meador	PPAP Supervisor	2/17/2020

TERMINAL TO HOUSING INSERTION FORCE DATA

Specification: 30N MAX

ORGANIZATION: SUMITOMO ELECTRIC WIRING SYSTEMS (PLT.5)

Prepared by: Cindy Meador 2/17/20

PART Name/Desc: **FO-064A6FA-B**

Design Rec. Change level/date: △B 5/23/18

PART NO (s): 6098-8723

LU5T-14489-LB

Mold #: 1726-A

Eng. Change Documents: NA

CAVITY #	M1							M2							M3								
1	3.7	3.6	7.0	3.3	4.6	4.3		4.6	4.9	3.9	5.6	5.2	4.8		4.4	4.9	4.5	4.8	4.7	4.3			
2	4.0	3.5	5.0	3.3	5.1	4.7		4.1	4.6	4.5	4.8	4.3	4.9		4.6	4.5	4.9	4.3	4.2	3.4			
3	4.0	3.5	3.1	2.8	3.0	3.5		4.2	4.1	3.9	4.3	4.9	4.4		4.8	6.7	5.8	5.4	4.0	4.7			
4	3.7	3.9	4.9	4.2	5.0	3.5		4.7	4.4	4.1	5.5	4.5	3.5		5.4	4.7	4.9	4.8	4.2	4.9			
5	2.8	4.2	4.1	4.9	3.9	4.8		3.9	4.5	5.6	4.2	5.2	3.7		5.6	3.5	5.6	5.2	5.8	5.0			
CAVITY #	M4							M5							M6								
1	3.3	3.9	5.6	5.5	3.2	4.7		4.2	5.2	5.5	5.0	3.4	4.7		3.6	5.0	5.1	4.4	4.5	5.3			
2	5.4	4.3	6.0	5.7	3.9	2.8		4.9	4.9	4.9	3.6	5.1	3.6		4.9	4.4	3.6	3.8	3.6	4.5			
3	4.2	3.8	4.4	4.8	6.6	5.1		4.3	4.1	4.8	5.8	5.0	4.8		4.0	4.2	4.4	5.2	4.2	4.8			
4	4.6	4.8	4.5	5.7	5.5	5.0		4.0	4.6	5.0	4.5	6.3	3.4		4.2	4.6	5.6	4.6	5.3	4.8			
5	4.1	4.7	3.9	4.3	4.6	4.9		4.1	3.6	3.8	5.4	4.7	3.4		4.8	4.2	5.7	6.3	5.9	3.7			
CAVITY #	M7							M8							M9								
1	6.6	5.3	4.6	5.5	4.8	4.2		4.8	4.1	4.7	6.6	5.0	6.1		4.4	3.7	3.6	3.1	3.3	3.4			
2	4.2	4.0	4.4	4.8	4.2	4.8		4.9	4.8	5.2	4.1	5.2	4.1		4.2	4.0	3.8	3.8	4.5	3.2			
3	4.6	4.9	4.2	5.3	4.1	4.9		5.3	4.3	3.5	4.5	5.0	5.5		5.0	2.8	4.2	3.6	5.0	4.9			
4	5.1	3.7	4.2	5.1	4.3	3.9		4.6	3.5	4.6	4.1	5.5	4.1		5.8	6.3	5.9	5.5	4.8	4.2			
5	4.5	5.2	4.6	5.4	4.3	4.4		4.4	4.3	4.5	4.1	4.3	5.5		5.5	4.3	6.6	5.7	4.5	6.0			
CAVITY #	M10							M11							M12								
1	4.4	5.1	5.0	6.6	5.0	4.3		3.4	4.1	5.4	3.1	4.5	4.5		4.3	4.3	3.9	5.6	4.3	4.0			
2	4.3	4.2	4.2	5.2	3.9	4.5		3.0	2.8	4.6	3.7	4.3	3.8		3.9	4.9	3.7	4.6	3.8	3.7			
3	4.6	5.0	5.2	5.9	5.1	5.4		3.9	4.0	3.7	4.3	4.3	3.6		3.5	3.3	4.2	4.9	4.3	4.0			
4	4.9	4.2	5.8	3.8	6.1	4.3		6.1	3.9	4.9	5.2	3.6	4.2		3.9	3.8	4.5	5.0	4.3	5.6			
5	4.3	3.5	5.3	5.3	4.9	3.6		3.8	4.7	4.2	4.9	5.1	3.9		3.5	3.4	4.5	4.5	4.1	4.1			
CAVITY #	M13							M14							M15								
1	6.6	4.4	4.2	4.9	4.5	3.8		4.5	4.5	4.4	5.0	5.4	4.8		3.8	4.0	3.9	3.6	4.4	3.6			
2	4.5	4.8	5.7	5.2	5.8	4.0		5.8	5.4	3.9	4.4	6.9	4.2		3.0	3.8	4.2	4.1	5.0	3.2			
3	5.8	4.0	4.6	3.8	5.3	5.5		4.3	5.1	4.7	5.8	5.0	4.5		4.1	3.5	4.5	4.1	4.1	4.0			
4	5.4	4.5	5.9	5.1	5.1	4.4		4.5	3.5	5.0	4.9	4.1	4.6		3.7	4.1	4.2	3.2	4.4	3.8			
5	5.2	3.7	5.2	3.5	5.4	4.2		4.6	4.9	6.6	3.8	5.9	5.0		4.5	4.0	4.8	4.7	5.0	3.7			
CAVITY #	M16																						
1	4.8	3.7	5.0	4.9	3.7	7.4																	
2	4.7	4.5	4.0	4.7	4.7	3.4																	
3	5.4	3.7	4.1	3.7	5.5	3.9																	
4	5.3	4.2	3.7	3.4	5.1	4.0																	
5	4.0	4.0	4.3	5.5	5.2	4.0																	

AVERAGE 4.5
MIN 2.8
MAX 7.4

TERMINAL TO HOUSING RETENTION FORCE WITHOUT TPA DATA

Specification: 30N MIN

ORGANIZATION: SUMITOMO ELECTRIC WIRING SYSTEMS (PLT.5)
 PART Name/Desc: **FO-064A6FA-B**
 PART NO (s): 6098-8723
 Mold #: 1726-A

Prepared by: Cindy Meador 2/17/20
 Design Rec. Change level/date: 68 5/23/18
 Eng. Change Documents: NA

CAVITY #	M1							M2							M3								
1	38.9	40.4	38.4	38.4	39.7	40.3		40.2	39.3	43.1	38.2	39.7	39.4		39.6	38.7	41.2	39.4	38.8	39.5			
2	40.3	39.0	38.2	38.6	37.1	41.3		39.4	40.7	39.9	38.7	39.3	38.6		38.9	40.7	42.3	39.4	40.2	38.4			
3	38.6	40.8	41.3	38.5	40.5	40.0		39.8	39.1	36.3	38.9	39.8	42.0		41.2	40.0	40.1	40.0	39.5	42.8			
4	39.8	39.0	39.7	41.2	39.5	40.2		39.1	39.3	38.8	38.3	38.6	38.0		42.2	40.0	39.1	38.8	40.1	38.7			
5	40.0	40.6	38.2	39.1	40.6	39.8		40.4	39.4	38.6	39.1	39.0	40.8		39.4	40.1	39.6	39.6	41.0	42.3			
CAVITY #	M4							M5							M6								
1	40.9	39.1	38.3	37.3	39.8	38.5		40.8	41.4	41.0	41.8	41.2	39.7		41.3	38.0	39.3	38.4	38.7	40.7			
2	38.2	38.2	39.2	40.2	39.4	38.3		40.2	41.3	39.0	38.0	40.2	42.0		38.1	41.2	39.4	41.0	40.8	41.4			
3	39.4	41.4	39.3	39.7	37.9	43.7		38.4	39.0	38.2	39.3	38.4	39.0		40.9	40.9	41.5	40.6	41.7	39.2			
4	39.1	39.2	38.3	39.8	40.0	37.3		38.8	41.1	40.2	38.3	38.1	38.9		37.6	40.4	42.8	40.2	40.3	39.5			
5	41.1	40.3	40.1	38.7	38.6	38.4		39.6	42.5	39.2	38.9	40.4	39.7		40.3	42.4	39.0	38.6	39.6	39.5			
CAVITY #	M7							M8							M9								
1	40.5	39.0	38.1	38.8	39.4	38.9		37.7	40.4	37.0	38.6	40.5	37.9		39.0	38.2	41.1	38.6	38.6	37.7			
2	40.7	40.5	40.0	39.2	38.7	38.6		37.5	40.0	41.3	38.8	36.5	38.7		38.7	40.0	39.6	37.8	42.0	39.3			
3	38.5	39.1	39.7	38.6	37.5	40.5		41.3	41.8	38.3	39.0	39.7	42.1		36.2	39.3	40.1	39.1	40.3	39.1			
4	40.3	37.7	38.6	38.0	40.4	37.6		41.3	41.9	40.6	39.9	40.1	38.8		41.4	39.7	39.8	38.8	42.1	39.2			
5	41.2	42.3	40.2	41.9	41.2	40.5		41.6	39.2	38.3	41.7	39.5	39.8		42.1	40.1	38.6	37.0	38.5	38.0			
CAVITY #	M10							M11							M12								
1	37.4	37.8	37.9	37.9	41.9	38.8		40.3	38.4	40.7	38.4	40.4	37.6		39.5	42.4	38.2	40.8	38.6	41.2			
2	42.5	41.5	42.4	39.5	38.8	39.5		39.7	39.0	41.8	38.3	40.7	41.2		39.3	38.8	39.1	39.1	38.7	39.5			
3	42.2	37.9	38.1	37.9	39.9	40.1		40.3	39.7	38.9	39.5	38.0	40.8		40.4	39.3	38.5	42.1	38.2	40.2			
4	42.2	40.0	41.8	40.1	38.7	40.4		41.8	39.2	41.3	38.4	39.4	41.9		38.3	41.7	40.2	42.3	40.3	39.5			
5	40.3	40.0	38.7	39.6	38.5	41.1		40.9	41.0	41.3	40.1	41.7	36.7		38.9	40.2	42.3	40.3	38.6	38.9			
CAVITY #	M13							M14							M15								
1	40.1	40.7	39.2	38.7	41.5	38.0		41.9	41.1	42.8	43.0	41.9	41.4		40.1	41.4	39.5	38.9	42.6	37.0			
2	42.5	37.6	39.2	38.8	38.8	38.7		39.7	41.5	39.7	41.3	37.9	39.6		38.0	41.0	39.8	36.1	36.9	38.2			
3	38.4	39.3	38.9	40.4	38.7	40.8		42.5	40.7	38.5	39.9	43.6	39.3		39.1	40.2	36.9	39.2	40.9	40.8			
4	39.7	40.2	39.1	39.9	37.9	41.9		39.5	37.6	38.9	41.8	42.0	40.7		39.3	40.5	42.0	40.6	40.3	41.6			
5	43.9	37.7	41.5	42.6	38.3	41.7		42.0	40.7	38.5	40.6	39.9	41.8		40.0	40.7	38.6	39.5	38.2	41.8			
CAVITY #	M16																						
1	40.7	38.1	36.6	40.7	37.6	40.5																	
2	42.2	38.3	40.8	38.3	39.7	41.0																	
3	40.3	41.9	41.4	37.2	37.9	41.8																	
4	40.1	39.6	39.4	38.9	39.3	40.0																	
5	39.8	40.2	36.8	38.4	39.3	40.4																	

AVERAGE 39.8
 MIN 36.1
 MAX 43.9

TERMINAL TO HOUSING RETENTION FORCE WITH TPA DATA

Specification: 60N MIN

ORGANIZATION: SUMITOMO ELECTRIC WIRING SYSTEMS (PLT.5)
 PART Name/Desc: **FO-064A6FA-B**
 PART NO (s): 6098-8723
 Mold #: 1726-A

Prepared by: Cindy Meador 2/17/20
 Design Rec. Change level/date: 68 5/23/18
 Eng. Change Documents: NA

CAVITY #	M1							M2							M3								
1	74.4	74.3	76.1	72.4	75.6	73.0		75.5	77.6	74.9	78.3	75.8	75.6		76.1	72.3	73.6	75.0	73.8	75.8			
2	75.6	75.8	74.3	73.9	70.3	76.1		73.0	77.9	74.7	72.1	75.1	74.5		74.8	77.2	72.7	72.1	75.6	78.0			
3	74.8	76.8	76.6	79.9	80.2	79.5		75.6	73.1	73.9	76.4	78.9	76.7		70.0	77.1	73.2	72.9	73.5	75.7			
4	76.1	78.6	74.7	74.5	73.5	75.4		76.3	76.1	77.0	75.7	73.9	75.8		76.6	79.9	74.1	73.1	74.5	74.8			
5	77.2	79.4	76.3	75.1	75.0	78.9		75.6	76.0	74.8	75.2	72.5	74.0		75.3	75.9	77.0	76.4	73.8	75.5			
CAVITY #	M4							M5							M6								
1	78.1	73.9	80.0	74.5	76.1	73.9		75.1	74.2	74.6	74.0	74.0	79.8		76.3	75.8	74.5	73.7	76.6	73.2			
2	79.6	74.5	72.1	76.7	76.9	73.1		72.5	75.9	74.1	75.0	75.8	80.2		73.9	74.3	73.8	73.7	76.5	77.3			
3	76.6	74.9	77.1	75.4	73.4	75.9		74.2	76.0	77.8	77.5	73.5	77.3		73.9	73.3	74.4	75.2	73.5	76.0			
4	77.9	79.5	77.4	76.0	73.0	79.7		73.2	74.8	75.5	74.4	75.3	74.0		75.5	73.4	73.8	77.3	74.4	79.9			
5	78.5	76.6	80.1	74.5	72.0	75.7		76.6	74.5	75.1	76.4	76.0	75.3		74.1	75.1	77.0	77.3	72.9	76.5			
CAVITY #	M7							M8							M9								
1	76.7	76.5	75.9	76.5	71.3	74.6		79.4	75.4	76.2	74.0	74.3	76.9		75.1	74.9	74.7	73.2	75.9	77.8			
2	74.9	73.8	75.5	73.2	73.4	77.0		78.6	77.1	73.1	78.1	69.6	74.1		76.6	74.9	75.0	75.1	75.4	76.0			
3	76.2	73.9	74.3	74.4	74.5	73.7		74.7	73.9	74.7	74.1	73.8	74.3		70.7	75.2	74.7	75.8	74.2	75.0			
4	77.9	76.3	74.1	75.7	73.4	77.1		73.5	76.3	75.7	76.1	75.2	73.3		72.3	74.0	74.4	76.0	80.5	76.7			
5	74.6	75.2	75.4	75.3	74.7	75.7		74.9	73.0	75.3	73.6	75.6	76.2		74.9	74.3	76.3	75.1	73.2	77.2			
CAVITY #	M10							M11							M12								
1	75.4	76.5	74.9	75.5	76.1	77.3		74.2	72.6	76.9	74.5	76.0	72.1		74.9	74.1	76.6	72.9	73.0	78.2			
2	73.7	74.4	75.4	75.3	73.1	76.5		76.7	75.1	73.1	73.6	72.7	75.2		72.8	74.4	73.6	76.9	73.2	75.9			
3	73.8	74.6	76.9	75.8	75.0	75.5		75.0	73.9	76.0	75.4	78.2	75.7		72.9	72.5	75.4	74.8	75.0	74.7			
4	74.6	77.1	73.8	74.4	73.1	79.0		72.0	75.6	74.7	72.5	72.9	76.0		74.7	74.4	73.4	76.1	72.2	75.7			
5	78.1	72.4	73.4	76.7	74.0	76.7		77.2	75.4	74.8	76.9	73.3	77.7		73.4	74.6	76.7	72.4	75.3	76.6			
CAVITY #	M13							M14							M15								
1	72.7	74.1	74.1	73.9	73.5	74.5		74.9	75.6	78.3	75.8	76.3	75.9		75.0	73.4	75.5	75.1	75.2	76.2			
2	68.2	76.1	73.1	76.1	75.0	76.9		75.6	75.9	77.8	75.7	74.1	73.4		73.9	76.3	77.0	75.8	71.6	80.1			
3	75.4	75.4	76.4	74.4	76.6	74.7		74.5	73.5	74.0	74.5	73.2	78.7		73.5	74.2	74.9	73.2	69.9	76.9			
4	75.8	74.7	77.6	74.8	72.8	73.1		74.4	75.2	75.3	75.6	74.8	75.0		71.0	76.2	72.8	74.9	70.3	76.7			
5	72.7	76.9	78.8	77.5	75.3	75.3		74.2	74.3	75.4	74.2	70.9	74.4		71.3	75.5	75.0	74.1	72.7	78.8			
CAVITY #	M16																						
1	73.3	76.0	74.9	74.5	72.8	75.2																	
2	71.7	75.9	77.9	74.2	73.2	74.1																	
3	67.9	73.6	74.3	73.4	75.7	78.1																	
4	68.4	77.9	74.9	73.9	71.1	78.8																	
5	76.0	73.0	76.3	74.3	74.4	73.4																	

AVERAGE 75.1
 MIN 67.9
 MAX 80.5

CONNECTOR OPERATION FORCE DATA

ORGANIZATION: SUMITOMO ELECTRIC WIRING SYSTEMS (PLT.5)

Specification: See Below

Prepared by: Cindy Meador 2/17/20

PART Name/Desc: FO-064A6FA-B

Design Rec. Change level/date: LU5T-14489-LB 5/23/18

PART NO (s): 6098-8723

Eng. Change Documents: NA

Mold #: 1726-A

INSERTION 45 N Max

CAVITY # →	M1	M2	M3	M4	M5	M6	M7	M8	M9	M10	M11	M12	M13	M14	M15	M16
1	18.4	23.8	21.5	22.3	19.1	23.9	18.3	21.1	20.4	24.8	21.7	22.9	19.0	13.0	22.4	21.3
2	24.7	17.4	24.6	25.9	23.2	19.3	21.7	20.4	20.1	23.2	22.6	24.7	19.7	18.5	16.0	22.0
3	24.3	25.6	20.1	22.1	25.9	18.7	20.1	20.9	22.6	20.1	23.2	27.5	18.4	21.1	24.8	23.0
4	16.4	18.1	22.5	22.2	19.7	18.8	18.9	18.6	19.2	25.6	16.1	24.8	24.7	18.1	20.7	20.1
5	23.5	23.5	20.4	21.9	22.2	20.7	20.5	22.4	20.4	21.1	20.1	24.7	20.4	16.8	24.7	22.8

AVERAGE 21.3
MIN 13.0
MAX 27.5

EXTRACTION WITHOUT LOCK 75 N Max

CAVITY # →	M1	M2	M3	M4	M5	M6	M7	M8	M9	M10	M11	M12	M13	M14	M15	M16
1	10.0	9.9	10.8	11.9	10.0	11.0	10.5	10.9	10.8	10.9	10.9	12.6	11.1	14.2	10.7	12.8
2	10.0	10.3	9.9	10.3	11.3	9.2	10.6	9.9	11.5	10.5	9.1	11.0	10.1	11.2	9.7	13.2
3	12.6	10.3	11.9	10.1	10.5	10.7	10.0	10.3	9.9	10.8	11.5	12.1	10.6	9.7	11.0	10.5
4	11.2	10.8	11.2	10.2	9.0	9.3	9.9	9.7	8.4	9.6	11.2	9.7	10.7	11.2	10.1	11.0
5	11.3	9.1	9.7	11.0	10.2	10.1	10.7	9.0	10.3	8.8	11.9	11.6	9.5	12.6	9.3	10.4

AVERAGE 10.6
MIN 8.4
MAX 14.2

HOUSING LOCK RETENTION FORCE DATA

ORGANIZATION: SUMITOMO ELECTRIC WIRING SYSTEMS (PLT.5)

PART Name/Desc: **FO-064A6FA-B**

PART NO (s): **6098-8723**

Mold #: **1726-A**

Specification: **110N min**

Prepared by: **Cindy Meador**

Design Rec. Change level/date: **5/23/18**

Eng. Change Documents: **NA**

CAVITY # →	M1	M2	M3	M4	M5	M6	M7	M8	M9	M10	M11	M12	M13	M14	M15	M16
1	137.3	136.4	139.4	138.3	137.4	138.2	141.0	137.5	139.6	137.3	136.9	138.1	136.8	138.1	136.3	136.2
2	136.7	138.6	138.6	136.4	138.1	139.3	138.8	140.3	139.4	141.0	141.2	137.1	138.6	138.1	139.0	142.0
3	136.4	136.7	140.1	138.4	138.9	138.4	139.4	140.3	137.2	137.8	140.7	141.5	136.7	137.0	138.3	138.3
4	140.5	139.0	141.9	136.5	137.7	138.3	139.1	137.8	140.7	137.8	140.4	139.6	136.7	139.3	141.2	137.8
5	139.8	138.9	138.4	138.9	137.8	136.8	138.6	137.1	136.3	140.7	140.6	137.5	141.9	140.2	141.8	137.1

AVERAGE 138.6
MIN 136.2
MAX 142.0

RETAINER TO HOUSING OPERATION FORCE DATA

Specification: SEE BELOW

ORGANIZATION: SUMITOMO ELECTRIC WIRING SYSTEMS (PLT.5)
 PART Name/Desc: FO-064A6FA-B
 PART NO (s): 6098-8723
 Mold #: 1726-A

Prepared by: Cindy Meador 2/17/20
 Design Rec. Change level/date: 5/23/18
 LU5T-14489-LB 68
 Eng. Change Documents: NA

TEMP TO COMPLETE WITHOUT TERMINALS 15N MIN

CAVITY # →	M1	M2	M3	M4	M5	M6	M7	M8	M9	M10	M11	M12	M13	M14	M15	M16
1	49.7	42.9	39.4	41.2	43.9	40.1	33.9	52.3	48.3	40.4	55.0	39.2	46.5	46.1	54.8	53.7
2	45.7	43.3	46.4	37.6	51.9	43.9	47.0	40.0	41.4	49.1	44.7	46.2	46.8	42.9	42.0	50.4
3	36.1	37.4	44.4	45.5	42.1	42.1	46.5	49.1	50.7	38.0	41.4	45.5	42.9	43.1	48.3	39.4
4	54.5	45.9	44.4	41.7	42.4	42.1	50.0	54.5	54.1	39.3	54.9	54.5	51.2	55.9	45.4	45.7
5	38.9	42.9	42.4	50.1	50.9	38.8	39.0	47.6	50.9	46.8	49.1	54.2	46.9	49.0	50.5	44.5

AVERAGE 45.7
 MIN 33.9
 MAX 55.9

INSERTION TEMP TO COMPLETE WITH TERMINALS 60 N MAX

CAVITY # →	M1	M2	M3	M4	M5	M6	M7	M8	M9	M10	M11	M12	M13	M14	M15	M16
1	35.2	36.3	41.4	47.2	38.2	31.8	48.3	41.2	50.7	52.5	40.4	43.4	42.0	52.2	45.3	50.5
2	32.5	49.6	37.5	50.7	46.6	44.3	45.2	46.8	42.4	48.3	35.8	46.9	38.9	48.8	44.0	31.8
3	35.7	39.1	38.4	39.3	42.7	48.0	36.8	48.0	39.1	42.4	39.8	45.3	48.2	48.1	43.6	49.2
4	41.8	35.6	38.8	33.5	52.4	37.9	37.8	46.0	47.8	43.1	50.5	48.3	50.7	54.7	47.4	46.8
5	44.4	38.3	41.8	41.8	39.9	42.1	37.1	49.4	53.1	46.2	43.3	50.9	46.8	46.1	43.5	50.7

AVERAGE 43.7
 MIN 31.8
 MAX 54.7

INITIAL RETENTION COMPLETE TO TEMP WITH TERMINALS 60 N MAX

CAVITY # →	M1	M2	M3	M4	M5	M6	M7	M8	M9	M10	M11	M12	M13	M14	M15	M16
1	30.2	28.1	33.2	34.7	32.5	31.5	31.8	32.0	31.2	30.2	36.3	32.4	32.7	31.5	33.4	34.0
2	30.6	36.2	34.3	30.1	34.0	33.0	31.8	30.3	38.7	31.7	30.2	30.1	33.5	31.3	33.5	30.6
3	35.4	30.1	31.4	32.0	30.9	33.2	32.8	33.2	32.6	32.0	32.0	40.1	29.5	35.2	32.4	36.6
4	31.6	34.1	31.8	31.7	32.5	30.0	30.5	32.9	34.1	33.3	32.2	32.4	31.9	35.0	30.8	31.9
5	33.2	34.0	34.0	33.6	34.6	30.5	31.2	34.2	37.1	31.0	34.4	35.2	32.1	35.0	30.6	33.8

AVERAGE 32.7
 MIN 28.1
 MAX 40.1

SECONDARY RETENTION COMPLETE TO TEMP WITH TERMINALS 18 N MIN

CAVITY # →	M1	M2	M3	M4	M5	M6	M7	M8	M9	M10	M11	M12	M13	M14	M15	M16
1	30.8	29.9	30.7	30.0	32.5	31.2	33.3	36.7	30.3	28.5	31.6	31.6	28.8	30.1	29.3	30.0
2	27.7	32.9	31.6	30.5	30.6	29.1	31.8	28.3	31.0	29.1	29.8	30.5	30.1	29.1	30.1	32.8
3	30.8	29.9	30.5	30.5	29.5	29.4	28.0	32.8	28.8	29.7	32.0	33.4	32.9	36.7	33.9	34.1
4	34.7	31.6	29.7	27.8	29.1	30.5	30.1	29.2	31.2	31.5	30.5	29.9	29.3	29.8	28.9	29.7
5	37.4	30.8	29.9	31.1	35.9	29.0	31.2	28.8	34.2	31.5	29.3	29.0	30.5	31.5	30.3	31.3

AVERAGE 30.9
 MIN 27.7
 MAX 37.4

RETENTION TEMP TO EXTRACTION WITH TERMINALS 25 N MIN

CAVITY # →	M1	M2	M3	M4	M5	M6	M7	M8	M9	M10	M11	M12	M13	M14	M15	M16
1	39.7	31.3	35.6	39.3	37.0	34.4	37.7	48.3	32.8	36.7	36.0	38.4	38.0	36.3	37.0	38.9
2	36.3	41.9	37.3	42.0	33.9	39.0	36.6	36.5	43.7	40.8	41.3	33.0	33.8	40.3	41.9	38.9
3	39.6	41.6	40.6	41.3	38.2	39.5	33.4	39.3	41.0	38.8	42.9	38.6	38.4	36.0	41.0	38.9
4	38.8	36.1	39.0	30.6	37.9	41.5	39.0	39.0	39.1	42.7	39.1	36.2	34.7	38.1	43.0	36.3
5	44.1	36.4	38.0	36.8	40.0	29.2	36.9	38.8	39.4	38.6	35.2	38.0	36.5	38.0	39.9	43.1

AVERAGE 38.3
 MIN 29.2
 MAX 48.3

CPK DATA

ORGANIZATION: SUMITOMO ELECTRIC WIRING SYSTEMS (PLT.5)

Prepared by: Cindy Meador 2/17/20

PART Name/Desc: **FO-064A6FA-B**

Design Rec. Change level/date:

PART NO (s): **6098-8723**

LU5T-14489-LB

B8

5/23/2018

Mold #: **1726-A**

Eng. Change Documents: NA

CAVITY #:**↓**

M1	12.20		21.20		M2	12.20		21.20		M3	12.20		21.20		
	.5	-.5	.5	-.5		.5	-.5	.5	-.5		.5	-.5	.5	-.5	
1	12.11		20.97			12.10		20.94			12.11		20.92		
2	12.11		20.97			12.10		20.94			12.11		20.93		
3	12.10		20.92			12.10		20.94			12.12		20.93		
4	12.11		20.94			12.10		20.94			12.11		20.93		
5	12.11		20.93			12.11		20.93			12.12		20.93		
6	12.10		20.93			12.10		20.94			12.11		20.93		
7	12.11		20.93			12.10		20.93			12.11		20.94		
8	12.11		20.93			12.10		20.94			12.11		20.95		
9	12.11		20.93			12.11		20.94			12.11		20.93		
10	12.11		20.92			12.11		20.94			12.11		20.92		
11	12.11		20.93			12.11		20.93			12.11		20.93		
12	12.10		20.93			12.10		20.94			12.11		20.93		
13	12.11		20.93			12.10		20.93			12.11		20.93		
14	12.11		20.93			12.10		20.93			12.11		20.93		
15	12.10		20.93			12.11		20.93			12.11		20.92		
16	12.10		20.92			12.11		20.93			12.11		20.93		
17	12.11		20.93			12.11		20.95			12.11		20.93		
18	12.11		20.94			12.12		20.94			12.11		20.94		
19	12.11		20.93			12.11		20.93			12.11		20.92		
20	12.11		20.93			12.11		20.93			12.11		20.93		
21	12.11		20.94			12.12		20.94			12.11		20.93		
22	12.11		20.93			12.10		20.94			12.11		20.94		
23	12.11		20.93			12.11		20.94			12.12		20.92		
24	12.11		20.94			12.10		20.93			12.11		20.92		
25	12.11		20.94			12.11		20.92			12.11		20.93		
26	12.10		20.93			12.10		20.94			12.11		20.93		
27	12.10		20.93			12.10		20.94			12.12		20.94		
28	12.11		20.93			12.10		20.93			12.11		20.93		
29	12.11		20.93			12.10		20.94			12.10		20.92		
30	12.10		20.93			12.12		20.93			12.12		20.91		

CPK DATA

ORGANIZATION: SUMITOMO ELECTRIC WIRING SYSTEMS (PLT.5)

Prepared by: Cindy Meador 2/17/20

PART Name/Desc: **FO-064A6FA-B**

Design Rec. Change level/date:

PART NO (s): **6098-8723**

LU5T-14489-LB

B8

5/23/2018

Mold #: **1726-A**

Eng. Change Documents: NA

CAVITY #:

M1	12.20		21.20		M2	12.20		21.20		M3	12.20		21.20		
	.5	-.5	.5	-.5		.5	-.5	.5	-.5		.5	-.5	.5	-.5	
31	12.11		20.93			12.10		20.93			12.11		20.94		
32	12.11		20.94			12.11		20.93			12.11		20.93		
33	12.11		20.93			12.10		20.93			12.11		20.93		
34	12.11		20.93			12.11		20.93			12.11		20.93		
35	12.11		20.92			12.10		20.92			12.11		20.93		
36	12.10		20.93			12.11		20.94			12.11		20.94		
37	12.10		20.93			12.10		20.93			12.11		20.92		
38	12.10		20.93			12.11		20.94			12.11		20.93		
39	12.11		20.94			12.10		20.95			12.10		20.93		
40	12.11		20.93			12.10		20.93			12.12		20.92		
41	12.10		20.93			12.12		20.92			12.11		20.93		
42	12.10		20.93			12.10		20.93			12.11		20.93		
43	12.10		20.92			12.10		20.94			12.11		20.93		
44	12.10		20.93			12.10		20.93			12.12		20.93		
45	12.11		20.93			12.10		20.93			12.11		20.92		
46	12.10		20.93			12.10		20.94			12.12		20.92		
47	12.12		20.93			12.11		20.94			12.12		20.93		
48	12.11		20.93			12.11		20.93			12.11		20.94		
49	12.11		20.94			12.11		20.95			12.11		20.93		
50	12.11		20.93			12.11		20.94			12.11		20.94		
51	12.11		20.93			12.11		20.94			12.11		20.93		
52	12.10		20.93			12.10		20.93			12.11		20.92		
53	12.11		20.93			12.12		20.94			12.12		20.93		
54	12.10		20.92			12.10		20.94			12.11		20.93		
55	12.10		20.92			12.12		20.92			12.11		20.93		
56	12.12		20.93			12.10		20.93			12.11		20.91		
57	12.11		20.93			12.11		20.94			12.10		20.94		
58	12.10		20.94			12.11		20.92			12.12		20.93		
59	12.11		20.93			12.10		20.93			12.11		20.93		
60	12.10		20.92			12.11		20.93			12.11		20.93		

CPK DATA

ORGANIZATION: SUMITOMO ELECTRIC WIRING SYSTEMS (PLT.5)

Prepared by: Cindy Meador 2/17/20

PART Name/Desc: **FO-064A6FA-B**

Design Rec. Change level/date:

PART NO (s): **6098-8723**

LU5T-14489-LB

B8

5/23/2018

Mold #: **1726-A**

Eng. Change Documents: NA

CAVITY #:**↓**

M1	12.20		21.20		M2	12.20		21.20		M3	12.20		21.20		
	.5	-.5	.5	-.5		.5	-.5	.5	-.5		.5	-.5	.5	-.5	
61	12.10		20.92			12.10		20.93			12.11		20.93		
62	12.10		20.93			12.10		20.93			12.11		20.93		
63	12.11		20.92			12.10		20.94			12.10		20.93		
64	12.10		20.92			12.10		20.93			12.11		20.93		
65	12.12		20.93			12.10		20.93			12.11		20.93		
66	12.11		20.92			12.10		20.93			12.11		20.94		
67	12.10		20.93			12.10		20.93			12.10		20.93		
68	12.10		20.93			12.10		20.94			12.11		20.93		
69	12.10		20.93			12.10		20.93			12.10		20.93		
70	12.10		20.93			12.10		20.93			12.11		20.94		
71	12.11		20.92			12.10		20.93			12.11		20.94		
72	12.10		20.92			12.10		20.93			12.11		20.93		
73	12.11		20.92			12.11		20.94			12.11		20.93		
74	12.10		20.93			12.10		20.94			12.11		20.93		
75	12.10		20.92			12.10		20.94			12.11		20.92		
76	12.11		20.92			12.10		20.93			12.11		20.92		
77	12.11		20.92			12.10		20.93			12.10		20.93		
78	12.10		20.93			12.10		20.93			12.10		20.93		
79	12.12		20.92			12.10		20.94			12.11		20.93		
80	12.11		20.92			12.10		20.93			12.11		20.93		
81	12.11		20.93			12.11		20.93			12.11		20.93		
82	12.11		20.93			12.10		20.93			12.11		20.93		
83	12.10		20.93			12.11		20.94			12.11		20.93		
84	12.11		20.92			12.10		20.94			12.10		20.92		
85	12.10		20.92			12.10		20.94			12.10		20.93		
86	12.10		20.92			12.11		20.92			12.10		20.93		
87	12.10		20.93			12.10		20.93			12.11		20.94		
88	12.10		20.93			12.10		20.93			12.11		20.93		
89	12.11		20.93			12.10		20.93			12.11		20.93		
90	12.11		20.93			12.10		20.94			12.11		20.93		

CPK DATA

ORGANIZATION: SUMITOMO ELECTRIC WIRING SYSTEMS (PLT.5)

Prepared by: Cindy Meador 2/17/20

PART Name/Desc: **FO-064A6FA-B**

Design Rec. Change level/date:

PART NO (s): **6098-8723**

LU5T-14489-LB **B8** 5/23/2018

Mold #: **1726-A**

Eng. Change Documents: NA

CAVITY #:↓

M1	12.20 .5 -.5	21.20 .5 -.5	M2	12.20 .5 -.5	21.20 .5 -.5	M3	12.20 .5 -.5	21.20 .5 -.5	
91	12.11	20.91		12.11	20.93		12.10	20.93	
92	12.10	20.93		12.10	20.93		12.10	20.94	
93	12.10	20.92		12.10	20.94		12.10	20.94	
94	12.11	20.94		12.11	20.93		12.11	20.94	
95	12.11	20.93		12.11	20.93		12.11	20.93	
96	12.11	20.92		12.11	20.94		12.11	20.93	
97	12.11	20.93		12.10	20.94		12.11	20.93	
98	12.11	20.92		12.10	20.94		12.10	20.93	
99	12.11	20.93		12.10	20.93		12.11	20.93	
100	12.11	20.93		12.11	20.93		12.11	20.93	

average	12.11	20.93	12.10	20.93	12.11	20.93
minimum	12.10	20.91	12.10	20.92	12.10	20.91
maximum	12.12	20.97	12.12	20.95	12.12	20.95
range	0.02	0.06	0.02	0.03	0.02	0.04
std dev	0.01	0.01	0.01	0.01	0.01	0.01
LSL	11.70	20.70	11.70	20.70	11.70	20.70
NOM	12.20	21.20	12.20	21.20	12.20	21.20
USL	12.70	21.70	12.70	21.70	12.70	21.70

CPK 24.31276389 9.013690682 22.15795913 11.95736662 26.70744123 11.62924691

CPK DATA

ORGANIZATION: SUMITOMO ELECTRIC WIRING SYSTEMS (PLT.5)

Prepared by: Cindy Meador 2/17/20

PART Name/Desc: **FO-064A6FA-B**

Design Rec. Change level/date:

PART NO (s): **6098-8723**

LU5T-14489-LB

B8

5/23/2018

Mold #: **1726-A**

Eng. Change Documents: NA

CAVITY #:**↓**

M4	12.20		21.20		M5	12.20		21.20		M6	12.20		21.20		
	.5	-.5	.5	-.5		.5	-.5	.5	-.5		.5	-.5	.5	-.5	
1	12.10		20.92			12.12		20.92			12.11		20.91		
2	12.10		20.92			12.10		20.92			12.10		20.91		
3	12.10		20.92			12.10		20.93			12.11		20.91		
4	12.10		20.92			12.11		20.93			12.10		20.91		
5	12.10		20.93			12.10		20.92			12.10		20.91		
6	12.10		20.93			12.11		20.92			12.10		20.92		
7	12.10		20.93			12.10		20.93			12.10		20.91		
8	12.11		20.94			12.11		20.92			12.10		20.91		
9	12.10		20.92			12.10		20.92			12.10		20.91		
10	12.10		20.94			12.11		20.92			12.10		20.91		
11	12.10		20.92			12.11		20.91			12.10		20.91		
12	12.10		20.93			12.10		20.92			12.10		20.91		
13	12.10		20.93			12.10		20.92			12.10		20.91		
14	12.10		20.92			12.11		20.92			12.10		20.91		
15	12.10		20.93			12.10		20.92			12.10		20.91		
16	12.10		20.92			12.10		20.92			12.10		20.91		
17	12.10		20.93			12.10		20.92			12.10		20.91		
18	12.10		20.93			12.10		20.92			12.10		20.91		
19	12.10		20.93			12.10		20.92			12.10		20.91		
20	12.11		20.93			12.10		20.92			12.10		20.91		
21	12.10		20.93			12.10		20.92			12.10		20.91		
22	12.10		20.93			12.11		20.92			12.10		20.91		
23	12.10		20.93			12.10		20.93			12.11		20.91		
24	12.11		20.93			12.11		20.92			12.10		20.91		
25	12.10		20.93			12.10		20.92			12.10		20.91		
26	12.11		20.93			12.10		20.92			12.10		20.91		
27	12.10		20.92			12.10		20.92			12.10		20.91		
28	12.10		20.93			12.10		20.92			12.10		20.91		
29	12.10		20.92			12.11		20.92			12.10		20.91		
30	12.10		20.92			12.10		20.93			12.10		20.91		

CPK DATA

ORGANIZATION: SUMITOMO ELECTRIC WIRING SYSTEMS (PLT.5)

Prepared by: Cindy Meador 2/17/20

PART Name/Desc: **FO-064A6FA-B**

Design Rec. Change level/date:

PART NO (s): **6098-8723**

LU5T-14489-LB

5/23/2018

Mold #: **1726-A**

Eng. Change Documents: NA

CAVITY #:**↓**

M4	12.20		21.20		M5	12.20		21.20		M6	12.20		21.20		
	.5	-.5	.5	-.5		.5	-.5	.5	-.5		.5	-.5	.5	-.5	
31	12.11		20.93			12.10		20.92			12.10		20.90		
32	12.10		20.94			12.10		20.92			12.10		20.91		
33	12.10		20.93			12.10		20.92			12.10		20.91		
34	12.11		20.93			12.10		20.91			12.10		20.91		
35	12.10		20.94			12.10		20.92			12.10		20.90		
36	12.10		20.93			12.10		20.92			12.10		20.92		
37	12.10		20.92			12.10		20.92			12.11		20.91		
38	12.11		20.94			12.11		20.92			12.10		20.90		
39	12.11		20.93			12.10		20.92			12.10		20.91		
40	12.10		20.93			12.10		20.92			12.10		20.91		
41	12.11		20.93			12.10		20.92			12.10		20.91		
42	12.10		20.94			12.11		20.91			12.10		20.91		
43	12.10		20.94			12.10		20.92			12.10		20.92		
44	12.12		20.93			12.10		20.92			12.10		20.91		
45	12.10		20.93			12.10		20.92			12.10		20.92		
46	12.11		20.92			12.10		20.92			12.10		20.92		
47	12.10		20.92			12.10		20.92			12.10		20.90		
48	12.10		20.92			12.11		20.92			12.10		20.91		
49	12.10		20.93			12.11		20.92			12.10		20.93		
50	12.10		20.92			12.10		20.91			12.10		20.91		
51	12.10		20.92			12.11		20.92			12.10		20.90		
52	12.10		20.93			12.10		20.91			12.11		20.92		
53	12.11		20.93			12.10		20.92			12.10		20.90		
54	12.11		20.93			12.11		20.92			12.11		20.90		
55	12.11		20.94			12.10		20.92			12.10		20.91		
56	12.12		20.93			12.10		20.92			12.10		20.91		
57	12.10		20.93			12.10		20.92			12.10		20.91		
58	12.10		20.93			12.10		20.93			12.11		20.91		
59	12.11		20.93			12.10		20.93			12.10		20.91		
60	12.12		20.93			12.10		20.95			12.10		20.91		

CPK DATA

ORGANIZATION: SUMITOMO ELECTRIC WIRING SYSTEMS (PLT.5)

Prepared by: Cindy Meador 2/17/20

PART Name/Desc: **FO-064A6FA-B**

Design Rec. Change level/date:

PART NO (s): **6098-8723**

LU5T-14489-LB

B8

5/23/2018

Mold #: **1726-A**

Eng. Change Documents: NA

CAVITY #:**↓**

M4	12.20		21.20		M5	12.20		21.20		M6	12.20		21.20		
	.5	-.5	.5	-.5		.5	-.5	.5	-.5		.5	-.5	.5	-.5	
61	12.10		20.93			12.11		20.93			12.10		20.91		
62	12.11		20.93			12.10		20.93			12.10		20.91		
63	12.10		20.93			12.10		20.93			12.10		20.91		
64	12.10		20.93			12.10		20.93			12.10		20.92		
65	12.10		20.93			12.10		20.93			12.10		20.91		
66	12.10		20.93			12.10		20.92			12.11		20.90		
67	12.10		20.93			12.10		20.93			12.10		20.91		
68	12.10		20.92			12.10		20.92			12.10		20.91		
69	12.10		20.93			12.10		20.92			12.10		20.91		
70	12.11		20.93			12.11		20.92			12.10		20.91		
71	12.10		20.93			12.10		20.92			12.10		20.91		
72	12.10		20.94			12.11		20.93			12.10		20.91		
73	12.10		20.92			12.10		20.92			12.11		20.91		
74	12.10		20.93			12.10		20.92			12.10		20.91		
75	12.10		20.93			12.10		20.93			12.10		20.91		
76	12.10		20.93			12.11		20.93			12.10		20.91		
77	12.10		20.93			12.10		20.92			12.11		20.91		
78	12.10		20.92			12.10		20.92			12.11		20.91		
79	12.11		20.93			12.10		20.92			12.10		20.91		
80	12.10		20.91			12.10		20.93			12.10		20.91		
81	12.10		20.92			12.10		20.92			12.10		20.91		
82	12.10		20.93			12.10		20.94			12.10		20.91		
83	12.10		20.92			12.10		20.92			12.11		20.91		
84	12.10		20.92			12.11		20.92			12.10		20.91		
85	12.10		20.92			12.10		20.93			12.10		20.91		
86	12.10		20.93			12.10		20.92			12.10		20.91		
87	12.10		20.92			12.10		20.93			12.10		20.90		
88	12.10		20.93			12.10		20.92			12.10		20.91		
89	12.10		20.93			12.10		20.92			12.10		20.92		
90	12.11		20.92			12.10		20.93			12.10		20.91		

CPK DATA

ORGANIZATION: SUMITOMO ELECTRIC WIRING SYSTEMS (PLT.5)

Prepared by: Cindy Meador 2/17/20

PART Name/Desc: FO-064A6FA-B

Design Rec. Change level/date: LU5T-14489-LB 5/23/2018

PART NO (s): 6098-8723

Eng. Change Documents: NA

Mold #: 1726-A

CAVITY #:↓

M4	12.20 .5 -.5	21.20 .5 -.5	M5	12.20 .5 -.5	21.20 .5 -.5	M6	12.20 .5 -.5	21.20 .5 -.5	
91	12.10	20.94		12.10	20.93		12.10	20.91	
92	12.12	20.93		12.10	20.91		12.10	20.92	
93	12.10	20.93		12.10	20.92		12.10	20.92	
94	12.11	20.93		12.10	20.92		12.10	20.91	
95	12.11	20.94		12.10	20.91		12.10	20.91	
96	12.10	20.92		12.10	20.92		12.11	20.92	
97	12.11	20.93		12.10	20.92		12.11	20.92	
98	12.11	20.93		12.10	20.91		12.10	20.92	
99	12.10	20.93		12.11	20.92		12.10	20.92	
100	12.10	20.92		12.10	20.93		12.10	20.92	

average	12.10	20.93	12.10	20.92	12.10	20.91
minimum	12.10	20.91	12.10	20.91	12.10	20.90
maximum	12.12	20.94	12.12	20.95	12.11	20.93
range	0.02	0.03	0.02	0.04	0.01	0.03
std dev	0.01	0.01	0.00	0.01	0.00	0.01
LSL	11.70	20.70	11.70	20.70	11.70	20.70
NOM	12.20	21.20	12.20	21.20	12.20	21.20
USL	12.70	21.70	12.70	21.70	12.70	21.70
CPK	24.82003501	12.05392923	30.05405404	11.72629065	38.36723192	13.36622916

CPK DATA

ORGANIZATION: SUMITOMO ELECTRIC WIRING SYSTEMS (PLT.5)

Prepared by: Cindy Meador 2/17/20

PART Name/Desc: **FO-064A6FA-B**

Design Rec. Change level/date:

PART NO (s): **6098-8723**

LU5T-14489-LB

B8

5/23/2018

Mold #: **1726-A**

Eng. Change Documents: NA

CAVITY #:

M7	12.20		21.20		M8	12.20		21.20		M9	12.20		21.20		
	.5	-.5	.5	-.5		.5	-.5	.5	-.5		.5	-.5	.5	-.5	
1	12.10		20.92			12.10		20.92			12.10		20.92		
2	12.10		20.92			12.10		20.93			12.10		20.92		
3	12.10		20.92			12.10		20.93			12.10		20.93		
4	12.10		20.92			12.10		20.91			12.11		20.94		
5	12.10		20.92			12.10		20.92			12.10		20.93		
6	12.10		20.91			12.10		20.92			12.11		20.93		
7	12.10		20.92			12.12		20.92			12.11		20.93		
8	12.10		20.91			12.10		20.92			12.10		20.93		
9	12.10		20.92			12.11		20.92			12.11		20.93		
10	12.10		20.92			12.11		20.91			12.11		20.93		
11	12.10		20.92			12.10		20.92			12.11		20.93		
12	12.10		20.91			12.10		20.92			12.11		20.93		
13	12.10		20.93			12.10		20.92			12.11		20.93		
14	12.10		20.92			12.11		20.92			12.11		20.92		
15	12.10		20.92			12.10		20.92			12.10		20.93		
16	12.10		20.92			12.11		20.91			12.11		20.93		
17	12.10		20.92			12.10		20.92			12.11		20.93		
18	12.10		20.92			12.11		20.92			12.10		20.93		
19	12.10		20.91			12.11		20.92			12.11		20.94		
20	12.10		20.91			12.11		20.92			12.10		20.93		
21	12.10		20.92			12.10		20.92			12.10		20.93		
22	12.10		20.92			12.11		20.93			12.10		20.93		
23	12.10		20.92			12.11		20.93			12.10		20.93		
24	12.10		20.92			12.11		20.93			12.10		20.93		
25	12.10		20.92			12.10		20.92			12.11		20.93		
26	12.10		20.92			12.10		20.92			12.11		20.93		
27	12.10		20.93			12.10		20.92			12.11		20.94		
28	12.10		20.91			12.11		20.92			12.11		20.93		
29	12.10		20.92			12.10		20.93			12.11		20.93		
30	12.10		20.92			12.10		20.93			12.10		20.92		

CPK DATA

ORGANIZATION: SUMITOMO ELECTRIC WIRING SYSTEMS (PLT.5)

Prepared by: Cindy Meador 2/17/20

PART Name/Desc: **FO-064A6FA-B**

Design Rec. Change level/date:

PART NO (s): **6098-8723**

LU5T-14489-LB

B8

5/23/2018

Mold #: **1726-A**

Eng. Change Documents: NA

CAVITY #:

M7	12.20		21.20		M8	12.20		21.20		M9	12.20		21.20		
	.5	-.5	.5	-.5		.5	-.5	.5	-.5		.5	-.5	.5	-.5	
31	12.10		20.91			12.11		20.92			12.11		20.93		
32	12.10		20.91			12.11		20.92			12.10		20.93		
33	12.10		20.92			12.10		20.92			12.11		20.93		
34	12.10		20.92			12.10		20.92			12.11		20.93		
35	12.10		20.92			12.10		20.92			12.11		20.94		
36	12.10		20.91			12.10		20.93			12.11		20.93		
37	12.10		20.91			12.11		20.92			12.11		20.92		
38	12.10		20.91			12.10		20.91			12.11		20.93		
39	12.10		20.92			12.10		20.91			12.11		20.93		
40	12.10		20.92			12.10		20.92			12.11		20.93		
41	12.10		20.92			12.11		20.92			12.10		20.93		
42	12.10		20.91			12.10		20.92			12.11		20.92		
43	12.10		20.92			12.11		20.91			12.11		20.93		
44	12.10		20.91			12.10		20.92			12.10		20.93		
45	12.10		20.92			12.10		20.93			12.11		20.93		
46	12.11		20.92			12.10		20.92			12.11		20.93		
47	12.10		20.91			12.11		20.92			12.11		20.93		
48	12.10		20.91			12.10		20.92			12.11		20.92		
49	12.10		20.92			12.10		20.92			12.11		20.92		
50	12.10		20.92			12.10		20.93			12.11		20.92		
51	12.10		20.93			12.11		20.92			12.11		20.93		
52	12.10		20.92			12.10		20.91			12.10		20.93		
53	12.10		20.92			12.10		20.92			12.11		20.92		
54	12.10		20.92			12.10		20.91			12.10		20.92		
55	12.10		20.93			12.11		20.92			12.10		20.93		
56	12.10		20.92			12.11		20.91			12.10		20.92		
57	12.10		20.92			12.10		20.93			12.11		20.93		
58	12.10		20.92			12.10		20.91			12.11		20.92		
59	12.10		20.92			12.11		20.92			12.11		20.93		
60	12.10		20.91			12.10		20.92			12.10		20.93		

CPK DATA

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ORGANIZATION: SUMITOMO ELECTRIC WIRING SYSTEMS (PLT.5)

Prepared by: Cindy Meador 2/17/20

PART Name/Desc: **FO-064A6FA-B**

Design Rec. Change level/date:

PART NO (s): **6098-8723**

LU5T-14489-LB

B8

5/23/2018

Mold #: **1726-A**

Eng. Change Documents: NA

CAVITY #:

M7	12.20		21.20		M8	12.20		21.20		M9	12.20		21.20		
	.5	-.5	.5	-.5		.5	-.5	.5	-.5		.5	-.5	.5	-.5	
61	12.10		20.93			12.10		20.91			12.11		20.94		
62	12.10		20.92			12.10		20.92			12.10		20.93		
63	12.10		20.92			12.11		20.92			12.10		20.93		
64	12.10		20.92			12.11		20.92			12.11		20.94		
65	12.10		20.92			12.10		20.92			12.11		20.93		
66	12.10		20.92			12.10		20.92			12.11		20.93		
67	12.10		20.92			12.10		20.92			12.10		20.93		
68	12.10		20.92			12.12		20.92			12.11		20.93		
69	12.10		20.92			12.10		20.92			12.11		20.93		
70	12.10		20.92			12.10		20.93			12.11		20.93		
71	12.10		20.91			12.11		20.91			12.11		20.93		
72	12.10		20.92			12.10		20.93			12.11		20.93		
73	12.10		20.91			12.10		20.92			12.10		20.93		
74	12.10		20.93			12.11		20.92			12.11		20.93		
75	12.10		20.91			12.10		20.92			12.11		20.93		
76	12.10		20.92			12.10		20.92			12.10		20.92		
77	12.10		20.92			12.11		20.93			12.10		20.93		
78	12.10		20.92			12.10		20.92			12.10		20.93		
79	12.10		20.92			12.10		20.91			12.11		20.93		
80	12.10		20.92			12.11		20.92			12.11		20.93		
81	12.10		20.92			12.11		20.91			12.10		20.92		
82	12.10		20.92			12.11		20.93			12.11		20.93		
83	12.10		20.91			12.11		20.91			12.11		20.93		
84	12.10		20.92			12.10		20.91			12.10		20.93		
85	12.10		20.91			12.10		20.92			12.10		20.93		
86	12.10		20.92			12.10		20.92			12.11		20.92		
87	12.10		20.92			12.11		20.92			12.10		20.92		
88	12.10		20.91			12.10		20.92			12.10		20.93		
89	12.10		20.92			12.10		20.91			12.11		20.93		
90	12.10		20.91			12.10		20.92			12.10		20.94		

CPK DATA

ORGANIZATION: SUMITOMO ELECTRIC WIRING SYSTEMS (PLT.5)

Prepared by: Cindy Meador 2/17/20

PART Name/Desc: **FO-064A6FA-B**

Design Rec. Change level/date:

PART NO (s): **6098-8723**

LU5T-14489-LB

B8

5/23/2018

Mold #: **1726-A**

Eng. Change Documents: NA

CAVITY #:↓

M7	12.20 .5 -.5	21.20 .5 -.5	M8	12.20 .5 -.5	21.20 .5 -.5	M9	12.20 .5 -.5	21.20 .5 -.5	
91	12.10	20.92		12.11	20.92		12.10	20.93	
92	12.10	20.91		12.11	20.93		12.10	20.93	
93	12.10	20.92		12.11	20.93		12.10	20.93	
94	12.10	20.92		12.10	20.93		12.11	20.93	
95	12.10	20.92		12.11	20.91		12.10	20.93	
96	12.10	20.91		12.11	20.92		12.10	20.92	
97	12.10	20.92		12.12	20.92		12.10	20.93	
98	12.10	20.92		12.11	20.92		12.10	20.93	
99	12.10	20.91		12.11	20.92		12.11	20.93	
100	12.10	20.92		12.11	20.92		12.10	20.92	

average	12.10	20.92	12.10	20.92	12.11	20.93
minimum	12.10	20.91	12.10	20.91	12.10	20.92
maximum	12.11	20.93	12.12	20.93	12.11	20.94
range	0.01	0.02	0.02	0.02	0.01	0.02
std dev	0.00	0.01	0.01	0.01	0.00	0.00

LSL	11.70	20.70	11.70	20.70	11.70	20.70
NOM	12.20	21.20	12.20	21.20	12.20	21.20
USL	12.70	21.70	12.70	21.70	12.70	21.70

CPK	133.3666667	13.70127356	24.19314389	12.16095756	27.26903336	15.31222075
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CPK DATA

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ORGANIZATION: SUMITOMO ELECTRIC WIRING SYSTEMS (PLT.5)

Prepared by: Cindy Meador 2/17/20

PART Name/Desc: **FO-064A6FA-B**

Design Rec. Change level/date:

PART NO (s): **6098-8723**

LU5T-14489-LB

B8

5/23/2018

Mold #: **1726-A**

Eng. Change Documents: NA

CAVITY #:

M10	12.20		21.20		M11	12.20		21.20		M12	12.20		21.20		
	.5	-.5	.5	-.5		.5	-.5	.5	-.5		.5	-.5	.5	-.5	
1	12.10		20.92			12.10		20.92			12.10		20.93		
2	12.11		20.92			12.10		20.91			12.10		20.92		
3	12.10		20.92			12.10		20.92			12.10		20.92		
4	12.10		20.91			12.10		20.91			12.10		20.90		
5	12.10		20.91			12.10		20.92			12.10		20.92		
6	12.10		20.92			12.11		20.92			12.10		20.91		
7	12.11		20.92			12.11		20.92			12.10		20.90		
8	12.10		20.92			12.11		20.92			12.10		20.93		
9	12.10		20.91			12.10		20.92			12.10		20.92		
10	12.11		20.92			12.10		20.92			12.11		20.93		
11	12.11		20.91			12.10		20.92			12.10		20.93		
12	12.10		20.92			12.10		20.91			12.10		20.93		
13	12.10		20.92			12.10		20.91			12.10		20.93		
14	12.10		20.91			12.10		20.92			12.10		20.93		
15	12.10		20.91			12.10		20.91			12.11		20.92		
16	12.10		20.91			12.11		20.92			12.10		20.93		
17	12.10		20.91			12.11		20.92			12.10		20.92		
18	12.10		20.91			12.11		20.92			12.11		20.93		
19	12.10		20.91			12.11		20.93			12.10		20.93		
20	12.10		20.91			12.11		20.92			12.10		20.92		
21	12.10		20.92			12.10		20.91			12.10		20.93		
22	12.10		20.91			12.10		20.92			12.10		20.92		
23	12.11		20.92			12.10		20.92			12.10		20.93		
24	12.10		20.91			12.11		20.92			12.10		20.93		
25	12.10		20.91			12.10		20.92			12.10		20.93		
26	12.11		20.91			12.10		20.91			12.10		20.92		
27	12.10		20.92			12.10		20.92			12.10		20.92		
28	12.10		20.91			12.11		20.92			12.10		20.91		
29	12.10		20.92			12.11		20.93			12.10		20.92		
30	12.10		20.91			12.10		20.90			12.10		20.92		

CPK DATA

ORGANIZATION: SUMITOMO ELECTRIC WIRING SYSTEMS (PLT.5)

Prepared by: Cindy Meador 2/17/20

PART Name/Desc: **FO-064A6FA-B**

Design Rec. Change level/date:

PART NO (s): **6098-8723**

LU5T-14489-LB

B8

5/23/2018

Mold #: **1726-A**

Eng. Change Documents: NA

CAVITY #:

M10	12.20 .5 -.5	21.20 .5 -.5	M11	12.20 .5 -.5	21.20 .5 -.5	M12	12.20 .5 -.5	21.20 .5 -.5	
31	12.10	20.91		12.10	20.91		12.10	20.92	
32	12.10	20.91		12.10	20.93		12.11	20.93	
33	12.10	20.92		12.10	20.92		12.10	20.92	
34	12.10	20.92		12.10	20.91		12.11	20.92	
35	12.10	20.92		12.10	20.92		12.10	20.93	
36	12.10	20.91		12.10	20.91		12.10	20.93	
37	12.11	20.92		12.10	20.92		12.10	20.92	
38	12.10	20.92		12.10	20.92		12.11	20.93	
39	12.10	20.92		12.10	20.92		12.11	20.93	
40	12.10	20.92		12.10	20.91		12.11	20.93	
41	12.11	20.92		12.10	20.91		12.11	20.92	
42	12.11	20.93		12.11	20.91		12.11	20.92	
43	12.11	20.92		12.10	20.92		12.10	20.93	
44	12.10	20.91		12.10	20.91		12.10	20.92	
45	12.10	20.92		12.10	20.92		12.11	20.93	
46	12.10	20.92		12.10	20.92		12.10	20.93	
47	12.10	20.92		12.10	20.93		12.11	20.93	
48	12.11	20.92		12.10	20.92		12.10	20.93	
49	12.11	20.93		12.10	20.92		12.10	20.92	
50	12.10	20.92		12.10	20.91		12.10	20.93	
51	12.10	20.92		12.11	20.92		12.11	20.93	
52	12.10	20.92		12.10	20.91		12.10	20.93	
53	12.10	20.91		12.10	20.92		12.11	20.93	
54	12.10	20.91		12.10	20.91		12.11	20.93	
55	12.10	20.91		12.10	20.91		12.10	20.93	
56	12.10	20.91		12.10	20.91		12.10	20.93	
57	12.10	20.92		12.10	20.90		12.10	20.92	
58	12.11	20.91		12.10	20.91		12.10	20.92	
59	12.10	20.91		12.10	20.92		12.11	20.93	
60	12.11	20.92		12.10	20.91		12.11	20.92	

CPK DATA

ORGANIZATION: SUMITOMO ELECTRIC WIRING SYSTEMS (PLT.5)

Prepared by: Cindy Meador 2/17/20

PART Name/Desc: **FO-064A6FA-B**

Design Rec. Change level/date:

PART NO (s): **6098-8723**

LU5T-14489-LB

B8

5/23/2018

Mold #: **1726-A**

Eng. Change Documents: NA

CAVITY #:

M10	12.20 .5 -.5	21.20 .5 -.5	M11	12.20 .5 -.5	21.20 .5 -.5	M12	12.20 .5 -.5	21.20 .5 -.5	
61	12.10	20.91		12.10	20.91		12.10	20.93	
62	12.10	20.90		12.10	20.91		12.10	20.93	
63	12.10	20.92		12.10	20.91		12.10	20.93	
64	12.11	20.92		12.10	20.91		12.11	20.93	
65	12.10	20.90		12.10	20.91		12.10	20.92	
66	12.11	20.92		12.10	20.91		12.10	20.92	
67	12.10	20.92		12.10	20.90		12.11	20.93	
68	12.10	20.92		12.10	20.90		12.10	20.93	
69	12.11	20.92		12.10	20.90		12.10	20.92	
70	12.11	20.92		12.10	20.91		12.10	20.93	
71	12.11	20.92		12.10	20.91		12.10	20.93	
72	12.11	20.92		12.10	20.91		12.10	20.93	
73	12.10	20.92		12.10	20.90		12.10	20.93	
74	12.11	20.91		12.10	20.91		12.10	20.93	
75	12.10	20.91		12.10	20.92		12.11	20.93	
76	12.11	20.93		12.10	20.92		12.10	20.93	
77	12.10	20.92		12.10	20.91		12.10	20.92	
78	12.10	20.92		12.10	20.91		12.10	20.92	
79	12.10	20.91		12.10	20.91		12.10	20.93	
80	12.11	20.92		12.10	20.91		12.11	20.93	
81	12.11	20.92		12.10	20.91		12.10	20.92	
82	12.11	20.92		12.10	20.91		12.11	20.93	
83	12.11	20.92		12.10	20.91		12.11	20.93	
84	12.10	20.92		12.10	20.92		12.10	20.92	
85	12.10	20.91		12.10	20.91		12.11	20.92	
86	12.10	20.91		12.10	20.91		12.10	20.93	
87	12.11	20.92		12.10	20.91		12.11	20.93	
88	12.11	20.92		12.10	20.91		12.11	20.93	
89	12.11	20.92		12.10	20.91		12.10	20.93	
90	12.11	20.93		12.10	20.91		12.10	20.92	

CPK DATA

ORGANIZATION: SUMITOMO ELECTRIC WIRING SYSTEMS (PLT.5)

Prepared by: Cindy Meador 2/17/20

PART Name/Desc: FO-064A6FA-B

Design Rec. Change level/date: LU5T-14489-LB 5/23/2018

PART NO (s): 6098-8723

Eng. Change Documents: NA

Mold #: 1726-A

CAVITY #:↓

M10	12.20 .5 -.5	21.20 .5 -.5	M11	12.20 .5 -.5	21.20 .5 -.5	M12	12.20 .5 -.5	21.20 .5 -.5	
91	12.10	20.92		12.10	20.90		12.10	20.93	
92	12.11	20.92		12.10	20.91		12.10	20.93	
93	12.10	20.92		12.10	20.91		12.11	20.93	
94	12.11	20.93		12.10	20.91		12.11	20.93	
95	12.11	20.92		12.10	20.91		12.10	20.93	
96	12.11	20.92		12.10	20.91		12.10	20.92	
97	12.11	20.92		12.10	20.91		12.10	20.93	
98	12.11	20.92		12.10	20.91		12.10	20.93	
99	12.10	20.92		12.10	20.92		12.10	20.93	
100	12.10	20.92		12.10	20.91		12.10	20.93	

average	12.10	20.92	12.10	20.91	12.10	20.93
minimum	12.10	20.90	12.10	20.90	12.10	20.90
maximum	12.11	20.93	12.11	20.93	12.11	20.93
range	0.01	0.03	0.01	0.03	0.01	0.03
std dev	0.00	0.01	0.00	0.01	0.00	0.01
LSL	11.70	20.70	11.70	20.70	11.70	20.70
NOM	12.20	21.20	12.20	21.20	12.20	21.20
USL	12.70	21.70	12.70	21.70	12.70	21.70
CPK	27.88728678	12.02421866	39.57620982	10.50539015	29.75366991	11.76106852

CPK DATA

ORGANIZATION: SUMITOMO ELECTRIC WIRING SYSTEMS (PLT.5)

Prepared by: Cindy Meador 2/17/20

PART Name/Desc: **FO-064A6FA-B**

Design Rec. Change level/date:

PART NO (s): **6098-8723**

LU5T-14489-LB

B8

5/23/2018

Mold #: **1726-A**

Eng. Change Documents: NA

CAVITY #:

M13	12.20		21.20		M14	12.20		21.20		M15	12.20		21.20		
	.5	-.5	.5	-.5		.5	-.5	.5	-.5		.5	-.5	.5	-.5	
1	12.10		20.91			12.10		20.92			12.10		20.91		
2	12.10		20.92			12.11		20.92			12.10		20.92		
3	12.10		20.91			12.10		20.92			12.10		20.92		
4	12.10		20.92			12.10		20.93			12.10		20.93		
5	12.10		20.92			12.10		20.93			12.10		20.92		
6	12.10		20.92			12.10		20.93			12.10		20.92		
7	12.10		20.92			12.11		20.93			12.10		20.92		
8	12.10		20.91			12.10		20.93			12.10		20.92		
9	12.11		20.91			12.10		20.93			12.10		20.92		
10	12.10		20.92			12.10		20.96			12.10		20.93		
11	12.11		20.92			12.10		20.93			12.10		20.92		
12	12.10		20.92			12.10		20.93			12.11		20.92		
13	12.10		20.92			12.11		20.93			12.10		20.92		
14	12.10		20.91			12.10		20.93			12.10		20.92		
15	12.10		20.92			12.10		20.91			12.10		20.93		
16	12.10		20.93			12.10		20.93			12.10		20.92		
17	12.10		20.92			12.10		20.93			12.10		20.90		
18	12.10		20.92			12.10		20.92			12.10		20.92		
19	12.10		20.91			12.11		20.93			12.10		20.92		
20	12.10		20.92			12.11		20.92			12.10		20.92		
21	12.10		20.92			12.10		20.93			12.10		20.91		
22	12.10		20.91			12.11		20.93			12.10		20.92		
23	12.10		20.91			12.11		20.94			12.10		20.92		
24	12.10		20.91			12.10		20.93			12.10		20.92		
25	12.10		20.92			12.10		20.93			12.11		20.92		
26	12.10		20.91			12.11		20.94			12.10		20.91		
27	12.10		20.92			12.10		20.93			12.10		20.92		
28	12.10		20.92			12.11		20.93			12.10		20.91		
29	12.10		20.92			12.10		20.93			12.10		20.91		
30	12.10		20.92			12.10		20.93			12.10		20.91		

CPK DATA

ORGANIZATION: SUMITOMO ELECTRIC WIRING SYSTEMS (PLT.5)

Prepared by: Cindy Meador 2/17/20

PART Name/Desc: **FO-064A6FA-B**

Design Rec. Change level/date:

PART NO (s): **6098-8723**

LU5T-14489-LB

B8

5/23/2018

Mold #: **1726-A**

Eng. Change Documents: NA

CAVITY #:**↓**

M13	12.20 .5 -.5	21.20 .5 -.5	M14	12.20 .5 -.5	21.20 .5 -.5	M15	12.20 .5 -.5	21.20 .5 -.5	
31	12.10	20.92		12.11	20.93		12.11	20.91	
32	12.10	20.92		12.11	20.93		12.10	20.92	
33	12.10	20.92		12.10	20.93		12.10	20.92	
34	12.10	20.92		12.11	20.93		12.10	20.90	
35	12.10	20.91		12.10	20.92		12.10	20.91	
36	12.10	20.92		12.10	20.92		12.10	20.92	
37	12.10	20.92		12.10	20.93		12.10	20.90	
38	12.10	20.90		12.11	20.95		12.10	20.92	
39	12.10	20.91		12.11	20.93		12.10	20.92	
40	12.10	20.92		12.10	20.93		12.10	20.92	
41	12.10	20.92		12.10	20.93		12.10	20.91	
42	12.10	20.90		12.10	20.93		12.11	20.92	
43	12.10	20.92		12.10	20.93		12.10	20.92	
44	12.10	20.91		12.10	20.93		12.10	20.92	
45	12.10	20.93		12.11	20.93		12.10	20.91	
46	12.10	20.92		12.10	20.93		12.10	20.92	
47	12.10	20.92		12.10	20.92		12.10	20.92	
48	12.10	20.91		12.10	20.92		12.10	20.93	
49	12.10	20.92		12.10	20.93		12.10	20.93	
50	12.10	20.92		12.10	20.92		12.11	20.93	
51	12.10	20.92		12.11	20.93		12.12	20.93	
52	12.11	20.92		12.11	20.93		12.10	20.92	
53	12.10	20.93		12.10	20.93		12.10	20.92	
54	12.10	20.92		12.11	20.93		12.11	20.93	
55	12.10	20.92		12.11	20.93		12.10	20.91	
56	12.10	20.91		12.11	20.93		12.10	20.92	
57	12.10	20.92		12.11	20.93		12.10	20.92	
58	12.10	20.92		12.11	20.92		12.10	20.94	
59	12.10	20.92		12.10	20.93		12.10	20.92	
60	12.10	20.93		12.10	20.92		12.10	20.90	

CPK DATA

ORGANIZATION: SUMITOMO ELECTRIC WIRING SYSTEMS (PLT.5)

Prepared by: Cindy Meador 2/17/20

PART Name/Desc: **FO-064A6FA-B**

Design Rec. Change level/date:

PART NO (s): **6098-8723**

LU5T-14489-LB

B8

5/23/2018

Mold #: **1726-A**

Eng. Change Documents: NA

CAVITY #:

M13	12.20 .5 -.5	21.20 .5 -.5	M14	12.20 .5 -.5	21.20 .5 -.5	M15	12.20 .5 -.5	21.20 .5 -.5	
61	12.10	20.93		12.11	20.92		12.11	20.92	
62	12.10	20.93		12.10	20.92		12.11	20.93	
63	12.10	20.93		12.11	20.92		12.10	20.93	
64	12.10	20.92		12.11	20.94		12.10	20.93	
65	12.10	20.92		12.10	20.92		12.10	20.90	
66	12.10	20.92		12.10	20.92		12.11	20.92	
67	12.10	20.93		12.11	20.93		12.10	20.92	
68	12.10	20.92		12.11	20.93		12.10	20.90	
69	12.10	20.92		12.10	20.93		12.11	20.93	
70	12.11	20.92		12.11	20.93		12.11	20.92	
71	12.10	20.93		12.11	20.93		12.10	20.92	
72	12.10	20.92		12.11	20.93		12.10	20.93	
73	12.10	20.92		12.11	20.93		12.11	20.92	
74	12.10	20.92		12.11	20.92		12.11	20.92	
75	12.10	20.93		12.11	20.93		12.10	20.93	
76	12.11	20.93		12.10	20.93		12.10	20.91	
77	12.10	20.92		12.11	20.92		12.10	20.92	
78	12.10	20.92		12.11	20.92		12.11	20.92	
79	12.10	20.93		12.10	20.92		12.11	20.90	
80	12.10	20.92		12.11	20.94		12.11	20.92	
81	12.10	20.92		12.11	20.92		12.11	20.92	
82	12.10	20.93		12.10	20.92		12.10	20.91	
83	12.10	20.92		12.10	20.93		12.10	20.92	
84	12.10	20.93		12.10	20.93		12.10	20.92	
85	12.10	20.92		12.10	20.93		12.10	20.92	
86	12.11	20.93		12.10	20.93		12.11	20.93	
87	12.10	20.93		12.11	20.93		12.10	20.92	
88	12.11	20.93		12.12	20.93		12.10	20.92	
89	12.11	20.93		12.10	20.92		12.10	20.92	
90	12.10	20.93		12.10	20.94		12.10	20.92	

CPK DATA

ORGANIZATION: SUMITOMO ELECTRIC WIRING SYSTEMS (PLT.5)

Prepared by: Cindy Meador 2/17/20

PART Name/Desc: FO-064A6FA-B

Design Rec. Change level/date: LU5T-14489-LB 5/23/2018

PART NO (s): 6098-8723

Eng. Change Documents: NA

Mold #: 1726-A

CAVITY #:↓

M13	12.20 .5 -.5	21.20 .5 -.5	M14	12.20 .5 -.5	21.20 .5 -.5	M15	12.20 .5 -.5	21.20 .5 -.5	
91	12.10	20.93		12.11	20.93		12.11	20.93	
92	12.11	20.94		12.11	20.93		12.10	20.93	
93	12.10	20.93		12.11	20.93		12.10	20.91	
94	12.10	20.92		12.10	20.92		12.10	20.92	
95	12.10	20.92		12.11	20.93		12.10	20.92	
96	12.10	20.93		12.11	20.92		12.11	20.92	
97	12.10	20.93		12.10	20.92		12.11	20.92	
98	12.10	20.92		12.11	20.93		12.11	20.93	
99	12.10	20.93		12.10	20.90		12.10	20.92	
100	12.10	20.93		12.11	20.93		12.10	20.92	

average	12.10	20.92	12.10	20.93	12.10	20.92
minimum	12.10	20.90	12.10	20.90	12.10	20.90
maximum	12.11	20.94	12.12	20.96	12.12	20.94
range	0.01	0.04	0.02	0.06	0.02	0.04
std dev	0.00	0.01	0.01	0.01	0.00	0.01
LSL	11.70	20.70	11.70	20.70	11.70	20.70
NOM	12.20	21.20	12.20	21.20	12.20	21.20
USL	12.70	21.70	12.70	21.70	12.70	21.70
CPK	46.46120272	10.21840012	25.8745436	10.36233376	29.66532158	9.133333333

CPK DATA

ORGANIZATION: SUMITOMO ELECTRIC WIRING SYSTEMS (PLT.5)

Prepared by: Cindy Meador 2/17/20

PART Name/Desc: **FO-064A6FA-B**

Design Rec. Change level/date:

PART NO (s): **6098-8723**

LU5T-14489-LB

B8

5/23/2018

Mold #: **1726-A**

Eng. Change Documents: NA

CAVITY #:**↓**

M16	12.20		21.20							
	.5	-.5	.5	-.5						
1	12.11		20.94							
2	12.11		20.94							
3	12.10		20.94							
4	12.11		20.92							
5	12.10		20.93							
6	12.11		20.94							
7	12.11		20.93							
8	12.11		20.94							
9	12.11		20.93							
10	12.11		20.94							
11	12.11		20.94							
12	12.11		20.94							
13	12.10		20.93							
14	12.10		20.93							
15	12.10		20.93							
16	12.10		20.94							
17	12.10		20.94							
18	12.10		20.93							
19	12.11		20.94							
20	12.11		20.94							
21	12.11		20.94							
22	12.12		20.94							
23	12.11		20.94							
24	12.10		20.94							
25	12.10		20.93							
26	12.11		20.94							
27	12.10		20.94							
28	12.11		20.94							
29	12.12		20.94							
30	12.11		20.94							

CPK DATA

ORGANIZATION: SUMITOMO ELECTRIC WIRING SYSTEMS (PLT.5)

Prepared by: Cindy Meador 2/17/20

PART Name/Desc: **FO-064A6FA-B**

Design Rec. Change level/date:

PART NO (s): **6098-8723**

LU5T-14489-LB

B8

5/23/2018

Mold #: **1726-A**

Eng. Change Documents: NA

CAVITY #:**↓**

M16	12.20		21.20							
	.5	-.5	.5	-.5						
31	12.11		20.94							
32	12.11		20.94							
33	12.10		20.94							
34	12.10		20.93							
35	12.12		20.94							
36	12.10		20.92							
37	12.10		20.93							
38	12.11		20.94							
39	12.11		20.93							
40	12.11		20.93							
41	12.11		20.94							
42	12.10		20.94							
43	12.10		20.94							
44	12.11		20.93							
45	12.11		20.93							
46	12.12		20.93							
47	12.10		20.93							
48	12.10		20.93							
49	12.11		20.94							
50	12.10		20.93							
51	12.10		20.92							
52	12.10		20.92							
53	12.11		20.93							
54	12.11		20.94							
55	12.11		20.93							
56	12.11		20.93							
57	12.11		20.94							
58	12.10		20.94							
59	12.10		20.94							
60	12.11		20.93							

CPK DATA

ORGANIZATION: SUMITOMO ELECTRIC WIRING SYSTEMS (PLT.5)

Prepared by: Cindy Meador 2/17/20

PART Name/Desc: **FO-064A6FA-B**

Design Rec. Change level/date:

PART NO (s): **6098-8723**

LU5T-14489-LB

B8

5/23/2018

Mold #: **1726-A**

Eng. Change Documents: NA

CAVITY #:**↓**

M16	12.20		21.20							
	.5	-.5	.5	-.5						
61	12.10		20.94							
62	12.12		20.93							
63	12.11		20.94							
64	12.12		20.93							
65	12.11		20.94							
66	12.12		20.94							
67	12.11		20.92							
68	12.10		20.93							
69	12.11		20.94							
70	12.11		20.93							
71	12.11		20.93							
72	12.11		20.93							
73	12.11		20.94							
74	12.11		20.93							
75	12.11		20.94							
76	12.11		20.93							
77	12.10		20.93							
78	12.11		20.93							
79	12.11		20.94							
80	12.11		20.93							
81	12.11		20.92							
82	12.11		20.94							
83	12.10		20.93							
84	12.11		20.93							
85	12.11		20.93							
86	12.10		20.94							
87	12.10		20.93							
88	12.11		20.94							
89	12.10		20.94							
90	12.11		20.94							

CPK DATA

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ORGANIZATION: SUMITOMO ELECTRIC WIRING SYSTEMS (PLT.5)

Prepared by: Cindy Meador 2/17/20

PART Name/Desc: **FO-064A6FA-B**

Design Rec. Change level/date:

PART NO (s): **6098-8723**

LU5T-14489-LB

B8

5/23/2018

Mold #: **1726-A**

Eng. Change Documents: NA

CAVITY #:↓

M16	12.20 .5 -.5	21.20 .5 -.5							
91	12.12	20.93							
92	12.11	20.94							
93	12.10	20.93							
94	12.11	20.94							
95	12.11	20.93							
96	12.11	20.94							
97	12.11	20.93							
98	12.11	20.93							
99	12.10	20.93							
100	12.10	20.93							

average	12.11	20.93
minimum	12.10	20.92
maximum	12.12	20.94
range	0.02	0.02
std dev	0.01	0.01

LSL	11.70	20.70
NOM	12.20	21.20
USL	12.70	21.70

CPK	22.7614234	12.84328788
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WORK INSTRUCTION

AREA:	QUALITY ASSURANCE LAB
TITLE	LABORATORY SCOPE - SCOTTSVILLE (SV5, SV5-2, SV5-Franklin)

PURPOSE: To summarize the testing capabilities available at Scottsville Plant (SV5, SV5-2, SV5-Franklin), and to clarify the equipment, tests performed, standards, recording method and reaction plan.	APPLICATION: Scottsville (SV5, SV5-2, SV5-Franklin)
	RULE ENFORCER: QA Coordinator / Above

SV5 Tests Performed

TESTS PERFORMED	EQUIPMENT USED	TEST METHODS / STANDARD	RECORDING METHOD	REACTION METHOD
Melt Flow Rate	Tinius Olsen Extrusion Plastometer	QRW - MELTFLOW	Melt Index Record	Reject Tag Procedure
Waterproof Test	Waterproof Tester	QAW - WATERPROOFTTEST	Inspection Data Sheet	Reject Tag Procedure
Moisture Analysis (Reference Only)	Moisture Tester	F-A-SV5-010	Moisture Test Data Sheet	Reject Tag Procedure
Insertion / Retention Test	Force Gage Instron Tester	QAW - INSERTRETPROC QAW - InstronOperation	Inspection Data Sheet Data storage	Reject Tag Procedure
Dimensional Measurement	Profile / Caliper / Micrometer / Depth Gage / Keyence Measurement System	Inspection Instruction Sheet	Inspection Data Sheet	Reject Tag Procedure
Part Weight	Scale	Inspection Instruction Sheet	Inspection Data Sheet	Reject Tag Procedure
Freeze Test	Freezer	SWS Inspection Standard	Inspection Data Sheet	Reject Tag Procedure

SV5 - Franklin Tests Performed

TESTS PERFORMED	EQUIPMENT USED	TEST METHODS / STANDARD	RECORDING METHOD	REACTION METHOD
Melt Flow Rate	Tinius Olsen Extrusion Plastometer	QRW - MELTFLOW	Melt Index Record	Reject Tag Procedure
Waterproof Test	Waterproof Tester	QAW - WATERPROOFTTEST	Inspection Data Sheet	Reject Tag Procedure
Insertion / Retention Test	Force Gage Instron Tester	QAW - INSERTRETPROC QAW - InstronOperation	Inspection Data Sheet Data storage	Reject Tag Procedure

WORK INSTRUCTION

AREA:	QUALITY ASSURANCE LAB			
TITLE	LABORATORY SCOPE - SCOTTSVILLE (SV5, SV5-2, SV5-Franklin)			
Dimensional Measurement	Caliper / Micrometer / Depth Gage / Keyence Measurement System	Inspection Instruction Sheet	Inspection Data Sheet	Reject Tag Procedure
Part Weight	Scale	Inspection Instruction Sheet	Inspection Data Sheet	Reject Tag Procedure
Freeze Test	Freezer	SWS Inspection Standard	Inspection Data Sheet	Reject Tag Procedure

SV5 (Building 2) Tests Performed

TESTS PERFORMED	EQUIPMENT USED	TEST METHODS / STANDARD	RECORDING METHOD	REACTION METHOD
Hardness Test	Hardness Tester	H-A-001	Hardness Test Data Sheet	Reject Tag Procedure
Dimensional Measurement	Profile / Caliper / Micrometer / Depth Gage / Nikon MM-400	Inspection Instruction Sheet	Inspection Data Sheet	Reject Tag Procedure
Contact Force Test	Contact Force Gage	MSW-Force Gage	Inspection Data Sheet	Reject Tag Procedure
Dimensional Measurement	Profile / Keyence System / OGP / Caliper / Micrometer / Depth Gage / Slip Gages	SWS Inspection Standard	Inspection Data Sheet	Reject Tag Procedure

Equipment Calibrations

	EQUIPMENT USED	TEST METHODS / STANDARD	RECORDING METHOD	REACTION METHOD
Calipers, Micrometers, Depth Gages, Weigh Scales, other process tools/jigs.	Certified Gages (Gage Blocks & Weights)	Per Calibration Procedure	Calibration Record and Gagetrak	Reject Tag Procedure
Keyence Microscope	Certified Gages			
Force Gages	Certified Weights			
Freezer	Certified Meter			
Melt Indexer	Outside Vendor			
Moisture Analyzer	Outside Vendor			
Water Pressure Gage	Outside Vendor			
Hardness Tester	Outside Vendor			
Optical Comparator (Profile)	Outside Vendor			
Keyence Measurement Scope	Outside Vendor			
OGP	Outside Vendor			
NIKON MM-400	Outside Vendor			
INSTRON Tensile Tester	Outside Vendor			



Toray Resin Company, 821 W. Mausoleum Road, Shelbyville, Indiana 46176

Grade: {PBT Toraycon}	1401X34-TB1 SB053
Lot:	R31510
Date:	01/21/20

Certification of Properties				
Test	Method	Unit	Specification	Result
Visual	.	.	Same as Std.	Good
Color	.	.	Same as Std.	Good
MFR	ISO 1133	g/10 min.	3.2~4.8	4.0
Tensile strength	ISO 527	MPa	Min. 49	63.7
Tensile elongation	ISO 527	%	Min. 24	36.5
Charpy - notched	ISO 179	kJ/m2	Min. 2.7	3.9
For the ship date, please see the BOL. For the ship quantity, please see the BOL.				
Toray Resin Company certifies the above results are in accordance with our Quality Management System				

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