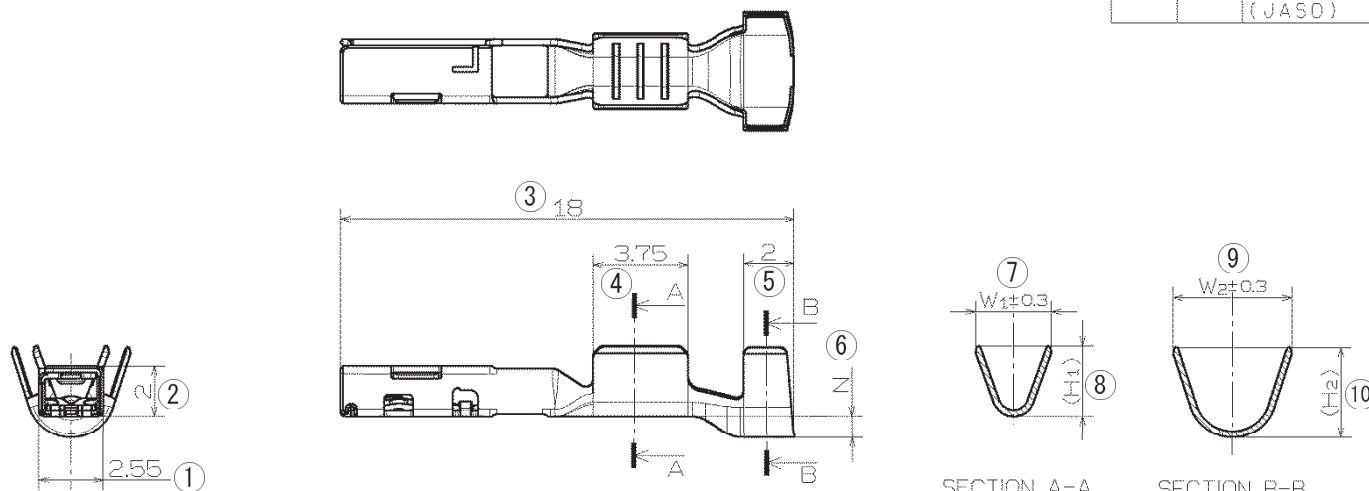


圧着部寸法
DIMENTION OF CRIMPING WING


符号 ISS.	サイズ SIZE	H1	H2	W1	W2	N
①	S	(2.2)	(3.4)	2.6	4.3	0.75
②	M	(2.8)	(4.0)	3.0	4.95	0.85

適用電線表
APPLICABLE WIRE SIZE

符号 ISS.	サイズ SIZE	電線種 WIRE TYPE	電線サイズ WIRE SIZE
①	S	TXL (AWG)	22~20
		CHFUS (ISO)	0.35~0.5mm ²
②	M	TXL (AWG)	18~16
		CHFUS (ISO)	0.75~1.0mm ²
		AE5SX (JASO)	1.25mm ²



②	12 SEALED 2PIECES FEMALE TERMINAL M SIZE (Sn)				8240-0510	TER-WUS120FMSN
①	12 SEALED 2PIECES FEMALE TERMINAL S SIZE (Sn)				8240-0509	TER-WUS120FSSN
符号 ISS.	名 称 DESCRIPTION	数量 QTY	材 質 MATERIAL	色 相 COLOR	部品番号 PART No.	登録名称 PART NAME

材質 MATERIAL BODY : C2600R-H SPRING : C7035-EH		板厚 THICKNESS BODY : 0.25 SPRING : 0.2		登録名称 PART NAME	上記参照	
仕上 FINISH Sn PLATING		尺 度 SCALE 5:1			SEE ABOVE TABLE	
色相 COLOR		質量 MASS		管理番号 REFERENCE NO.	S-107033	
				部品番号 PART NO.	SEE ABOVE TABLE	
承認 APPROVED	検 図 CHECKED	設 計 DESIGNED	製 図 DRAWN	名 称 DESCRIPTION	1.2mm防水メス端子(Sn)	
'16.01.09 K.Yamashita	'16.01.09 K.Uezono	2016/01/08 Y.KITAGAWA	2016/01/08 H.KANGYU		12 SEALED 2PIECES FEMALE TERMINAL(Sn)	
 三角法 THIRD ANGLE PROJECTION				Sumitomo Wiring Systems, Ltd.		A3

一般公差表 GENERAL TOLERANCES			
以上 OR OVER	未満 LESS THAN	±0.2	±0.3
10	50		
角度 ANGLE			



三 角 法
THIRD ANGLE PROJECTION

Sumitomo Wiring Systems, Ltd.

A3

Supplier

Sumitomo Wiring Systems, Ltd.

Part Certification

PROCESS FLOW DIAGRAM

Family name					Date (Orig.) 17.Nov.'14		Prepared by Sumitomo Wiring Systems,Ltd.		
Part Number 8240-0509					Date (Rev.) N/A		Title N/A		
Part Name TER-WUS120FSSN					Page 1 of 15		Phone Number 81-59-382-8867		
Cross Functional Team Members									
Engineer Section D.Hirasawa Y.Hattori QA Section M.Hayakawa K.Takahashi									
Step	Fab	Move	Store	Insp	Operation description	Item #	Product Characteristics	Item #	Control Characteristics
1	◆	●	▲	■	Receipt of material and receiving inspection	1	Product name	1	Material ledger
						2	Quantity	2	↑
						3	Condition of packing	3	↑
						4	Material characteristics	4	Inspection report
2	◆				Try of stamping	1	Machine check	1	Daily report
						2	product condition	2	↑
3				■	Initial inspection	1	Dimension	1	Inspection report
						2	Appearance	2	↑
						3	function	3	↑
4	◆				Stamping	1	Quantity	1	Daily report
5				■	Final inspection	1	Dimension	1	Inspection report
						2	Appearance	2	↑
						3	function	3	↑
6	◆	●			Packing	1	part name and code	1	Daily report
						2	Quantity	2	↑
7			▲		Shipment	1	Part name and code	1	Inventory book
						2	Quantity	2	↑
						3	Shipping destination	3	↑

Supplier

Sumitomo Wiring Systems, Ltd.

POTENTIAL FAILURE MODE AND EFFECTS ANALYSIS

Part Certification

☐ Design FMEA

☒ Process FMEA

☐ System

☐ Subsystem

☒ Component

Page1 of 15

FMEA NumberPPAP S14-083

Part Number8240-0509

Design or Process ResponsibilitySumitomo Wiring Systems, Ltd.

Prepared bySumitomo Wiring Systems, Ltd.

Telephone #81-59-382-8867

Model Year(s) / Vehicle(s)N/A

Key DateN/A

Original FMEA Date17.Nov.'14

FMEA Revision DateN/A

Core Team

Design section(T.Hata)

Engineering section(D.Hirasawa)

QA section(M.Hayakawa)

Production section(T. Nakazawa)

Design Item or Process Function Requirements	Potential Failure Mode	Potential Effect(s) of Failure	S e v	C l a s s	Potential Cause(s) / Mechanism(s) of Failure	O c c	Current Design or Process Controls	D e t	R P N	Recommended Actions	Responsibility & Target Completion Date	Actions Taken	S e v	O c c	D e t	R P N
Receipt of material and receiving inspection	Wrong raw material	Lower its Function/Durability	8	N/A	Misshipment of supplier	1	Confirmation of Warrant and Label	2	16	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Lower its Function/Durability	7	↑	Misoperation	1	Confirmation of Warrant and product	2	14	↑	↑	↑	↑	↑	↑	↑
Try of stamping	Dimensional problem and deformation	Lower its Function/Durability	8	↑	Missetting of Die	1	According to operation manual Inspection of product	2	16	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Lower its Function/Durability	8	↑	Missetting of condition	1	According to operation manual Inspection of product	2	16	↑	↑	↑	↑	↑	↑	↑
Initial inspection	Dimensional problem and deformation	Lower its Function/Durability	6	↑	Fail to check the appearance difference	1	According to inspection manual	2	12	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Lower its Function/Durability	6	↑	Mismeasuring	1	According to inspection manual	2	12	↑	↑	↑	↑	↑	↑	↑
		Lower its Function/Durability	6	↑	Breakdown of measuring machine	1	Daily check Periodical check	1	6	↑	↑	↑	↑	↑	↑	↑
Stamping	Dimensional problem and deformation	Lower its Function/Durability	6	↑	Not good stamping condition	1	According to operation manual Inspection of product	2	12	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Lower its Function/Durability	6	↑	Back-off of cutting pieces	1	Visual check Control of bottom dead point	1	6	↑	↑	↑	↑	↑	↑	↑
		Lower its Function/Durability	6	↑	Broken die	1	Confirmation of check sheet of die Inspection of product	2	12	↑	↑	↑	↑	↑	↑	↑

Supplier

Sumitomo Wiring Systems, Ltd.

POTENTIAL FAILURE MODE AND EFFECTS ANALYSIS

Part Certification

☐ Design FMEA

☒ Process FMEA

☐ System

☐ Subsystem

☒ Component

Page2 of 15

FMEA NumberPPAP S14-083

Part Number8240-0509

Design or Process ResponsibilitySumitomo Wiring Systems, Ltd.

Prepared bySumitomo Wiring Systems, Ltd.

Telephone #81-59-382-8867

Model Year(s) / Vehicle(s)N/A

Key DateN/A

Original FMEA Date17.Nov.'14

FMEA Revision DateN/A

Core Team

Design section(T.Hata)Engineering section(D.Hirasawa)QA section(M.Hayakawa)Production section(T. Nakazawa)

Design Item or Process Function Requirements	Potential Failure Mode	Potential Effect(s) of Failure	Severity	Criticality	Potential Cause(s) / Mechanism(s) of Failure	Occurrence	Current Design or Process Controls	Detection	RPN	Recommended Actions	Responsibility & Target Completion Date	Actions Taken	Severity	Occurrence	Detection	RPN
Final inspection	Dimensional problem and deformation	Lower its Function/Durability	6	N/A	Fail to check the appearance difference	1	According to inspection manual	2	12	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Lower its Function/Durability	6	↑	Mismeasuring	1	According to inspection manual	2	12	↑	↑	↑	↑	↑	↑	↑
		Lower its Function/Durability	6	↑	Breakdown of measuring machine	1	Daily check Periodical check	1	6	↑	↑	↑	↑	↑	↑	↑
Packing and Shipment	Wrong quantity	N/A	2	↑	Miss confirmation of the quantity	1	According to the packing specification	1	2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Miss shipment	N/A	2	↑	Miss labeling	1	According to the packing specification	1	2	↑	↑	↑	↑	↑	↑	↑
	Broken package	↑	1	↑	Mishandling	1	According to shipping manual	2	2	↑	↑	↑	↑	↑	↑	↑

Supplier

Sumitomo Wiring Systems, Ltd.

CONTROL PLAN

Part Certification

Control Plan Category <input type="radio"/> Prototype <input type="radio"/> Pre-Launch <input checked="" type="radio"/> Production			Key Contact Name Masahiro.Hayakawa			Date (Orig) 17.Nov.'14		Date (Rev) 0		Page 1 of 15			
Control Plan Number PPAP S14-083			Key Contact Phone 81-59-382-8867			Customer Engineering Approval (If Req'd) N/A			Date (If Req'd) N/A				
Part Number 8240-0509		ECL 3	Supplier / Plant Approval / Date N/A			Customer Quality Approval (If Req'd) N/A			Date (If Req'd) N/A				
Part Name / Description TER-WUS120FSSN			Other supplier approval by (If Req'd) N/A			Other Approval (If Req'd) N/A			Date (If req'd) N/A				
Supplier / Plant Sumitomo Wiring Systems, Ltd.		Supplier Code N/A	Other Approval Date (If Req'd) N/A										
Core team Members													
Engineer Section		D.Hirasawa		Y.Hattori									
QA Section		M.Hayakawa		K.Takahashi									
Part / Proc #	Process Name / Operation description	Machine, Device, Jig, Tools For Mfg.	Characteristics			Special Char. Class.	Methods					Reaction Plan	
			No.	Product	Process		Product / Process Specification / Tolerance	Evaluation / Measurement Technique	Sample Size	Sample Freq.	Control Method		
1	Receipt of material and receiving	N/A	1	Product name	N/A	N/A	N/A	Check of slip	N/A	Lot	Material ledger	Get in touch with leader	
		↑	2	Quantity	↑	↑	↑	Check of delivery slip	↑	↑	↑		
		↑	3	Condition of packing	↑	↑	↑	Visual check	↑	↑	↑		
		↑	4	Material characteristics	↑	↑	↑	Check of material inspection report	↑	↑	Inspection report		
2	Try of stamping	Press machine	1	N/A	Machine check	N/A	Operation	Machine check	N/A	Lot	Daily report		
		↑	2	↑	product condition	↑	↑	Daily report check	↑	↑	↑		
3	Initial inspection	Measuring instrument	1	Dimension	N/A	N/A	Inspection standard	Dimension data check	Depend on the inspection Standard		Inspection report		
		Magnifying glass	2	Appearance	↑	↑	↑	Visual check			↑		
		Measuring machine	3	function	↑	↑	↑	Function data check			↑		
4	Stamping	Press machine	1	N/A	Quantity	N/A	Operation standard	Check of preset counter	N/A	Lot	Daily report		

Core team Members												
Engineer Section			D.Hirasawa		Y.Hattori							
QA Section			M.Hayakawa		K.Takahashi							
Part / Proc #	Process Name / Operation description	Machine, Device, Jig, Tools For Mfg.	Characteristics			Special Char. Class.	Methods					Reaction Plan
			No.	Product	Process		Product / Process Specification / Tolerance	Evaluation / Measurement Technique	Sample Size	Sample Freq.	Control Method	
5	Final inspection	Measuring instrument	1	Dimension	↑	↑	Inspection standard	Dimension data check	Depend on the inspection Standard		Inspection report	Get in touch with leader
		Magnifying glass	2	Appearance	↑	↑	↑	Visual check			↑	
		Measuring machine	3	function	↑	↑	↑	Function data check			↑	
6	Packing	N/A	1	part name and code	N/A	N/A	Operation standard	Visual check	All	Lot	Daily report	
		↑	2	Quantity	↑	↑	↑	↑	↑	↑	↑	
7	Shipment	↑	1	Part name and code	N/A	N/A	Shipping instruction sheet	Visual check	All	Lot	Inventory book	
		↑	2	Quantity	↑	↑	↑	↑	↑	↑	↑	
		↑	3	Shipping destination	↑	↑	↑	↑	↑	↑	↑	

Katsuyuki Ota

Gage Repeatability and Reproducibility Data Sheet (Calipers)

Appraiser / Trial #	1	2	3	4	5	6	7	8	9	10	AVERAGE	
1 A	1	9.40	9.45	9.42	9.39	9.43	9.38	9.35	9.41	9.42	9.40	9.4050
2	2	9.41	9.44	9.43	9.38	9.43	9.38	9.36	9.41	9.42	9.41	9.4070
3	3	9.41	9.44	9.43	9.38	9.42	9.38	9.36	9.42	9.41	9.41	9.4060
4	Avarage	9.407	9.443	9.427	9.383	9.427	9.380	9.357	9.413	9.417	9.407	Xbar A 9.4060
5	Range	0.010	0.010	0.010	0.010	0.010	0.000	0.010	0.010	0.010	0.010	Rbar A 0.0090
6 B	1	9.38	9.42	9.36	9.40	9.45	9.42	9.38	9.41	9.42	9.41	9.4050
7	2	9.38	9.42	9.37	9.41	9.45	9.41	9.38	9.41	9.43	9.40	9.4060
8	3	9.39	9.41	9.37	9.41	9.44	9.41	9.38	9.41	9.42	9.41	9.4050
9	Avarage	9.383	9.417	9.367	9.407	9.447	9.413	9.380	9.410	9.423	9.40	Xbar B 9.4053
10	Range	0.010	0.010	0.010	0.010	0.010	0.010	0.000	0.000	0.010	0.010	Rbar B 0.0080
11 C	1	9.40	9.42	9.44	9.43	9.39	9.41	9.36	9.41	9.37	9.39	9.4020
12	2	9.41	9.42	9.45	9.44	9.40	9.40	9.36	9.41	9.37	9.39	9.4050
13	3	9.40	9.42	9.44	9.42	9.39	9.41	9.37	9.40	9.38	9.39	9.4020
14	Avarage	9.403	9.420	9.443	9.430	9.393	9.407	9.363	9.407	9.373	9.390	Xbar C 9.4030
15	Range	0.010	0.000	0.010	0.020	0.010	0.010	0.010	0.010	0.010	0.000	Rbar C 0.0090
16 Part												Xbar-bar 9.4048
Avarage (X p)		9.398	9.427	9.412	9.407	9.422	9.400	9.367	9.410	9.404	9.401	R p 0.0600
17	(Rbar A + Rbar B + Rbar C)/ (# of Appraisers = 3)											Rbar-bar 0.0087
18	(Max Xbar)-(Min Xbar) = Xbar DIFF											0.0030
19	(R bar-bar)*(D4=2.58)=UCL R											0.02
20	(R bar-bar)*(D3=0.00)=LCL R											0.00

Gage Repeatability and Reproducibility Report						Date 31. MAR. '16
Part No. and Name	Measurement sample for Gage R&R use		Gage Name	Calipers	Performed by	
Characteristics	Dimension		Gage No.	817	T. Morishita	
Tolerance	0.6 Units mm		Gage Type	Calipers	T. Saitou	
Tolerance (T)	T= 0.6					T. Taniguchi
From data sheet	Rbar-bar= 0.0087		Xbar DIFF=	0.0030	R p=	0.060
Measurement Unit Analysis				Based on the TOLERANCE Method		
Repeatability – Equipment Variation (EV) EV = Rbar-bar * K1 = 0.0051				Trials		K1
				2		0.8862
				3		0.5908
Reproducibility – Appraiser Variation (AV) AV= SQRT((Xbar DIFF * K2)^2 – (EV^2/nr)) = 0.001260				% EV= (EV*6/T) * 100 = 5.12 %		
				Appraisers		2
				K2		0.7071
				3		0.5231
Repeatability & Reproducibility (R&R) R&R= SQRT(EV^2 + AV^2) = 0.0053				% AV= (AV*6/T) * 100 = 1.26 %		
				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
Part Variation (PV) PV= R p * K3 = 0.0189				n = number of parts r = number of trials		
Total Variation (TV) TV= SQRT (R&R^2 + PV^2) = 0.0196				% R&R= (R&R*6/T) * 100 = 5.27 % Gage system OK		
				% PV= (PV*6/T) * 100 = 18.88 %		
				ndc= 1.41 (PV/GRR) = 5		
				Gage discrimination acceptable		

Katsuyuki Ota

Gage Repeatability and Reproducibility Data Sheet (Projector)

Appraiser / Trial #	1	2	3	4	5	6	7	8	9	10	AVERAGE
1 A	1	9.40	9.45	9.40	9.41	9.41	9.39	9.40	9.36	9.40	9.4020
2	2	9.41	9.44	9.41	9.41	9.41	9.39	9.40	9.36	9.41	9.4050
3	3	9.40	9.44	9.41	9.39	9.42	9.40	9.40	9.37	9.42	9.4060
4 Avarage		9.403	9.443	9.407	9.403	9.413	9.393	9.400	9.363	9.410	Xbar A 9.4043
5 Range		0.010	0.010	0.010	0.020	0.010	0.010	0.000	0.010	0.020	Rbar A 0.0110
6 B	1	9.42	9.44	9.38	9.41	9.42	9.40	9.41	9.35	9.39	9.4000
7	2	9.42	9.43	9.39	9.41	9.41	9.40	9.41	9.36	9.39	9.4010
8	3	9.42	9.44	9.40	9.41	9.41	9.40	9.41	9.35	9.40	9.4030
9 Avarage		9.420	9.437	9.390	9.410	9.413	9.400	9.410	9.353	9.393	Xbar B 9.4013
10 Range		0.000	0.010	0.020	0.000	0.010	0.000	0.000	0.010	0.010	Rbar B 0.0070
11 C	1	9.41	9.45	9.40	9.41	9.42	9.41	9.41	9.36	9.40	9.4060
12	2	9.42	9.45	9.41	9.42	9.42	9.40	9.42	9.35	9.41	9.4100
13	3	9.41	9.44	9.41	9.41	9.42	9.42	9.41	9.35	9.40	9.4060
14 Avarage		9.413	9.447	9.407	9.413	9.420	9.410	9.413	9.353	9.403	Xbar C 9.4073
15 Range		0.010	0.010	0.010	0.010	0.000	0.020	0.010	0.010	0.010	Rbar C 0.0100
16 Part Avarage (X p)		9.412	9.442	9.401	9.409	9.416	9.401	9.408	9.357	9.402	Xbar-bar 9.4043 R p 0.0856
17 (Rbar A + Rbar B + Rbar C)/ (# of Appraisers = 3)											Rbar-bar 0.0093
18 (Max Xbar)-(Min Xbar) = Xbar DIFF											0.0060
19 (R bar-bar)*(D4=2.58)=UCL R											0.02
20 (R bar-bar)*(D3=0.00)=LCL R											0.00

Gage Repeatability and Reproducibility Report						Date 31. MAR. '16
Part No. and Name	Measurement sample for Gage R&R use		Gage Name	Projector	Performed by	
Characteristics	Dimension		Gage No.	T0026	T. Morishita	
Tolerance	0.6 Units mm		Gage Type	Projector:V24	T. Saitou	
Tolerance (T)	T= 0.6					T. Taniguchi
From data sheet	Rbar-bar=	0.0093	Xbar DIFF=	0.0060	R p=	0.086
Measurement Unit Analysis					Based on the TOLERANCE Method	
Repeatability – Equipment Variation (EV) EV = Rbar-bar * K1 = 0.0055			Trials		K1	
			2		0.8862	
			3		0.5908	
Reproducibility – Appraiser Variation (AV) AV= SQRT ((Xbar DIFF * K2)^2 – (EV^2/nr)) = 0.0030			Appraisers		2	
			K2		0.7071	
			3		0.5231	
Repeatability & Reproducibility (R&R) R&R= SQRT (EV^2 + AV^2) = 0.0063			Parts		K3	
			2		0.7071	
			3		0.5231	
			4		0.4467	
Part Variation (PV) PV= R p * K3 = 0.0269			5		0.4030	
			6		0.3742	
			7		0.3534	
			8		0.3375	
Total Variation (TV) TV= SQRT (R&R^2 + PV^2) = 0.0276			9		0.3249	
			10		0.3146	
% EV= (EV*6/T) * 100 = 5.51 %						
% AV= (AV*6/T) * 100 = 2.97 %						
n = number of parts r = number of trials						
% R&R= (R&R*6/T) * 100 = 6.26 % Gage system OK						
% PV= (PV*6/T) * 100 = 26.92 %						
ndc= 1.41 (PV/GRR) = 6						
Gage discrimination acceptable						

Supplier

PART INSPECTION REPORT

1 of 1

SUMITOMO WIRING SYSTEMS

Part Certification

Mold:SZ1

Part Number	8240-0509	ECL	3	Part Name	TER-WUS120FSSN
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Dim No	Figure Code	Drawing Dimension	Acceptance		PARTS/TOOL CAVITIES CHECKED								OK	NOT OK	
			Lower	Upper	1	2	3	4	5	6	7	8			
1		2.55	2.35	2.75	2.54								0		
2		2	1.8	2.2	2.00								0		
3		18	17.7	18.3	18.07								0		
4		3.75	3.55	3.95	3.75								0		
5		2	1.8	2.2	1.94								0		
6		0.75	0.55	0.95	0.74								0		
7		2.6	2.3	2.9	2.53								0		
8		(2.2)	Ref		2.20								-		
9		4.3	4.0	4.6	4.21								0		
10		(3.4)	Ref		3.33								-		
11															
12															
13															
14															
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45															

Inspection Source Company Name

Inspected by	H.SAKA	Title	QA STAFF	Inspection Report Date	18.Oct.'16
Inspctor Supervisor		Title		Date	
Approved by	K. Ota	Title	Components Gr. QA Dep. Deputy General Manager	Date	18.Oct.'16

Supplier

PART INSPECTION REPORT

1 of 1

SUMITOMO WIRING SYSTEMS

Part Certification

Mold:SZ2

Part Number	8240-0509	ECL	3	Part Name	TER-WUS120FSSN
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Dim No	Figure Code	Drawing Dimension	Acceptance		PARTS/TOOL CAVITIES CHECKED								OK	NOT OK	
			Lower	Upper	1	2	3	4	5	6	7	8			
1		2.55	2.35	2.75	2.51								0		
2		2	1.8	2.2	2.00								0		
3		18	17.7	18.3	18.09								0		
4		3.75	3.55	3.95	3.76								0		
5		2	1.8	2.2	1.94								0		
6		0.75	0.55	0.95	0.73								0		
7		2.6	2.3	2.9	2.64								0		
8		(2.2)	Ref		2.16								-		
9		4.3	4.0	4.6	4.20								0		
10		(3.4)	Ref		3.31								-		
11															
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Inspection Source Company Name

Inspected by	H.SAKA	Title	QA STAFF	Inspection Report Date	18.Oct.'16
Inspctor Supervisor		Title		Date	
Approved by	K. Ota	Title	Components Gr. QA Dep. Deputy General Manager	Date	18.Oct.'16

Supplier

PART INSPECTION REPORT

1 of 1

SUMITOMO WIRING SYSTEMS

Part Certification

Mold:SZ3

Part Number	8240-0509	ECL	3	Part Name	TER-WUS120FSSN
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Dim No	Figure Code	Drawing Dimension	Acceptance		PARTS/TOOL CAVITIES CHECKED								OK	NOT OK	
			Lower	Upper	1	2	3	4	5	6	7	8			
1		2.55	2.35	2.75	2.51								0		
2		2	1.8	2.2	2.00								0		
3		18	17.7	18.3	18.10								0		
4		3.75	3.55	3.95	3.75								0		
5		2	1.8	2.2	1.94								0		
6		0.75	0.55	0.95	0.73								0		
7		2.6	2.3	2.9	2.63								0		
8		(2.2)	Ref		2.17								-		
9		4.3	4.0	4.6	4.20								0		
10		(3.4)	Ref		3.31								-		
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Inspection Source Company Name

Inspected by	H.SAKA	Title	QA STAFF	Inspection Report Date	18.Oct.'16
Inspctor Supervisor		Title		Date	
Approved by	K. Ota	Title	Components Gr. QA Dep. Deputy General Manager	Date	18.Oct.'16

MATERIAL TEST RESULTS

Supplier Part Certification

SUMITOMO WIRING SYSTEMS Ltd.

Mold:SZ1

Page 1 of 1

Supplier	Part Number
SUMITOMO WIRING SYSTEMS Ltd.	8240-0509
Name of Laboratory	Part Name
SUMITOMO WIRING SYSTEMS Ltd.	TER-WUS120FSSN

[illegible]

Signature

K. Ota

Title

Components Gr. QA Dep. Deputy General Manager

Date

18.Oct.'16

MATERIAL TEST RESULTS

Supplier
Part Certification

SUMITOMO WIRING SYSTEMS Ltd.

Mold:SZ2

Page 1 of 1

Supplier	Part Number
SUMITOMO WIRING SYSTEMS Ltd.	8240-0509
Name of Laboratory	Part Name
SUMITOMO WIRING SYSTEMS Ltd.	TER-WUS120FSSN

[illegible]

Signature

K. Ota

Title

Components Gr. QA Dep. Deputy General Manager

Date

18.Oct.'16

MATERIAL TEST RESULTS

Supplier Part Certification

SUMITOMO WIRING SYSTEMS Ltd.

Mold:SZ3

Page 1 of 1

Supplier	Part Number
SUMITOMO WIRING SYSTEMS Ltd.	8240-0509
Name of Laboratory	Part Name
SUMITOMO WIRING SYSTEMS Ltd.	TER-WUS120FSSN

[illegible]

Signature

K. Ota

Title

Components Gr. QA Dep. Deputy General Manager

Date

18.Oct.'16

PERFORMANCE TEST

SUMITOMO WIRING SYSTEMS Ltd

Mold:SZ2

Page 1 of 1

Supplier	Part Number
SUMITOMO WIRING SYSTEMS Ltd	8240-0509

Name of Laboratory SUMITOMO WIRING SYSTEMS Ltd	Part Name TER-WUS120FSSN
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[illegible]

Signature	<i>K. Ota</i>	Title	Components Gr. QA Dep. Deputy General Manager	Date	18.Oct.'16
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Process Capability data

Part Name: TER-WUS120FSSN

Part No: 8240-0509

K. Ota

Mold:SZ1

Measurement Place	1						
Standard	2.55						
UCL	2.75						
LCL	2.35						
n1	2.540						
n2	2.540						
n3	2.550						
n4	2.540						
n5	2.540						
n6	2.540						
n7	2.530						
n8	2.540						
n9	2.550						
n10	2.550						
n11	2.550						
n12	2.540						
n13	2.540						
n14	2.550						
n15	2.550						
n16	2.540						
n17	2.550						
n18	2.550						
n19	2.550						
n20	2.540						
n21	2.550						
n22	2.550						
n23	2.560						
n24	2.560						
n25	2.550						
n26	2.540						
n27	2.550						
n28	2.540						
n29	2.540						
n30	2.550						
x	2.550						
MAX	2.560						
MIN	2.530						
σ	0.005						
CP	13.333						
CPK	13.047						

Measurement Place

Please refer to an attached sheet drawing

Process Capability data

Part Name: TER-WUS120FSSN

Part No: 8240-0509

K. Ota

Mold:SZ2

Measurement Place	1						
Standard	2.55						
UCL	2.75						
LCL	2.35						
n1	2.520						
n2	2.510						
n3	2.520						
n4	2.510						
n5	2.510						
n6	2.510						
n7	2.520						
n8	2.510						
n9	2.510						
n10	2.520						
n11	2.510						
n12	2.520						
n13	2.520						
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n24	2.520						
n25	2.520						
n26	2.520						
n27	2.520						
n28	2.520						
n29	2.510						
n30	2.510						
x	2.520						
MAX	2.520						
MIN	2.510						
$\bar{\sigma}$	0.005						
CP	13.333						
CPK	11.000						

Measurement Place

Please refer to an attached sheet drawing

Process Capability data

Part Name: TER-WUS120FSSN

Part No: 8240-0509

K. Ota

Mold:SZ3

Measurement Place	1						
Standard	2.55						
UCL	2.75						
LCL	2.35						
n1	2.500						
n2	2.530						
n3	2.510						
n4	2.520						
n5	2.520						
n6	2.530						
n7	2.510						
n8	2.510						
n9	2.520						
n10	2.520						
n11	2.510						
n12	2.520						
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n24	2.510						
n25	2.530						
n26	2.520						
n27	2.520						
n28	2.510						
n29	2.530						
n30	2.510						
x	2.520						
MAX	2.530						
MIN	2.500						
$\bar{\sigma}$	0.005						
CP	13.333						
CPK	11.113						

Measurement Place

Please refer to an attached sheet drawing

Components Group/Testing & Validation Department

2016		
Approval	Check	Charged
M.Imamura	K.Motooka	Y.Hanebuchi
Manager		
2016/3/31	2016/3/31	2016/3/31

Laboratory Scope

Testing Items	Testing & Measurement Apparatus	Location		Instruction Manual No.	machine number	Capability of Testing & Measurement Apparatus	proof inspection
		Technical Center					
Vibration test Shock test Combined stress test Vibration/Mechanical Shock	Combined stress tester	●		SCD-35AG081	17	Table-1 Exciting Force(kgf) 3800 Amplitude(mmP-P) 56 Acceleration(m/s2) 980 Frequency(Hz) 5 to 2000 Temperature(deg. C) -40 to 200 Humidity(%RH) 30 to 98 Table-1 (cont.) Exciting Force(kgf) 1400 Amplitude(mmP-P) 100 Acceleration(m/s2) 568 Frequency(Hz) 5 to 2000 Temperature(deg. C) -40 to 200 Humidity(%RH) 30 to 98 Table-1 (cont.) Exciting Force(kgf) 2500 Amplitude(mmP-P) 60 Acceleration(m/s2) 963 Frequency(Hz) 5 to 2500 Temperature(deg. C) -40 to 200 Humidity(%RH) 30 to 98 #1 #2 #3 #4 #5 #6 #7 #8 #9 #10 #11 #12 #13 #14 #15 #16 #17 #18 #19 #20 #21 #22 #23 #24 #25 #26 2500 2500 2500 2500 2447 4500 60 60 51 51 51 51 963 963 1142 1142 1142 1000 5 to 2500 5 to 2500 5 to 2600 5 to 2600 5 to 2600 5 to 2800 -40 to 200 -40 to 200 -60 to 180 -60 to 180 -60 to 180 -45 to 180 30 to 98 30 to 98 30 to 98 30 to 98 30 to 98 30 to 98	OK
Salt water spray	Combined corrosion tester	●		SCD-35AG071	4	Table-2 Temperature(deg. C) ~35°C spray rate 1ml #1 #2 #3 #4 ~50°C Max60°C 1~2ml -	OK
Thermal shock test	Thermal Shock chamber	●		SCD-35AG072	13	Table-3 Temp. Low(deg. C) -70 -65 -65 Temp. High(deg. C) 200 200 200 #1 #2 #3 #4 #5 #6 #7 #8 #9 #10 -70 -65 -65 -65 -65 -65 -65 -65 -65 -65 200 200 200 200 200 200 200 200 200 200 Table-3 (cont.) Temp. Low(deg. C) -70 -70 -70 -70 -70 -70 -70 -70 Temp. High(deg. C) 200 200 200 200 200 200 200 200	OK
Dewing test	Thermal Shock with Humidity chamber	●		SCD-35AG094	3	Table-4 Temp. Low(deg. C) -55 -55 -55 Temp. High(deg. C) 200 200 200 Humidity(%RH) to 95 to 95 to 95	OK
Water resistance	Water spray tester	●		SCD-35AG072	2	Temp. range : ambient temp. to 150deg. C JIS D0203 R1(1.9L/min)・R2(3.2L/min) JIS D0203 S1(24.5L/min)・S2(39.2L/min)	OK
Humidity resistance test Temperature/humidity cycling test Low temperature test	Temperature & Humidity Chamber	●		SCD-35AG037	13	Table-5 Temp. Low(deg. C) -70 -70 -70 -70 -70 -70 -70 -70 Temp. High(deg. C) 180 180 150 150 180 150 150 150 Humidity(%RH) 20~98 20~98 20~98 20~98 30~98 20~98 20~98 20~98 Table-5 (cont.) Temp. Low(deg. C) -70 -70 -70 -70 -70 -70 Temp. High(deg. C) 150 150 150 150 150 Humidity(%RH) 20~98 20~98 30~95 30~95 30~95	OK
Oil resistance test Fluid Resistance	Oil bath	●		SCD-35AG106	2	Max. 150deg. C(Aging oven : Max. 200deg. C)	OK
Over current test Temperature rise Current cycle test Maximum Test Current Capability Terminal 1008 Hour Current Cycling	Windless and High Temperature Chamber Power supply recorder thermocouple	●		SCD-35AG078	15	Max. 160deg. C Max. 500A	OK

Testing Items	Testing & Measurement Apparatus	Location		Instruction Manual No.	machine number	Capability of Testing & Measurement Apparatus	proof inspection
		Technical Center					
High temperature Exposure	Aging Oven	●		SCD-35AG079	15	Max. 500deg. C	OK
High-pressure washing test	High-pressure washing machine	●		SCD-35AG096	1	Max. 150deg. C Table Reversal formula(angle 0~180) Nozzle angle 0, 30, 60, 90 Pressure MIN[Water pressure5Mpa→11.9L/min]: MAX[Water pressure10Mpa→16.3L/min] φ Nozzle toSample 100mm (Width8mm、Vertical injection angle30) Water temperature Normal temperature to 80℃	OK
Corrosive gas test	Gas Corrosion Chamber		●	SCD-35AG103	2	temp. & humidity range:40deg. C 70%RH to 98%RH SO2 : Max. 500ppm H2S : Max. 0. 1ppm NO2 : Max. 0. 2ppm CL2 : Max. 0. 02ppm	OK
Dust resistance	Dust chamber	●		SCD-35AG123	1	blowing interval: 1 to 30sec. quantity of dust: 5kg Max	OK
Frozen salt water test	Salt water immersion test machine	●		SCD-35AG172	1	Temperature low-temp-bath: -30℃~+100℃、high-temp-bath: ~+200℃、Immersion: +6~+80℃(150L) Concentration: 10%	OK
Fretting Corrosion	Fretting Corrosion Testing machine		●	SCD-35AG156	1	Temperature in a tank : normal temperature to 100℃ Movement frequency : 1 to 10Hz Movement distance : ±0.02mm to ±0.5mm	OK
Rotary drum drop and impact test	Rotary drum drop and impact testing Machine	●		SCD-35AG195	1	Rotational speed : 1~10rpm	OK
momentary shut-off	Power Supply, oscilloscope	●		SCD-35AG001	8	sensitivity :1mV to 5V/div Sampling Speed : 1ns	OK
Insertion & Retention force Terminal crimping force Terminal retention force Housing locking force Housing lock release force Twisting durability test Terminal strength Terminal to Terminal Engage/Disengage Force Terminal-Connector Insertion/Extraction Force Connector-Connector Mating/Unmating	Tensile & Comp. Tester/Push-Pull Tester		●	SCD-35AG063	2	Tensile & Comp. Tester speed(mm/min) 1 to 1000 load(N) 5,000	OK
					5	Push-Pull tester speed(mm/min) 20,50,100,200 load(N) 500	OK
Voltage drop Dry Circuit Resistance	Measurement System	●		SCD-35AG031	4	precision voltage : 1uV, current : 10nA	OK
Terminal Contact force	Terminal contact force meas. tester		●	SCD-35AG124	2	Load 0.1N to 100N, Speed 0.1mm/min to 1.0mm/min	OK
Insulation resistance	Insulation Resistance tester		●	SCD-35AG119	3	voltage : :10 to 1000V	OK
Waterproofness Pressure/Vacuum Leakage	Airleak Tester		●	SCD-35AG122	5	pressure : 1kPa to 500kPa、-10kPa to -200kPa	OK
Withstand voltage	Withstand voltage tester		●	SCD-35AG083	1	range :0 to 5KV	OK
Dimension	Projector		●	—	1	precision:1/1000mm magnification : 10	OK
Surface observation	stereomicroscope, metallurgical microscope		●	—	1	magnification : 1.5,5,10,20,40	OK
	Video microscope		●	—	1	magnification : 5-40、25-175、150-800	OK
Section cutting	cutting machine, grinder, polisher		●	— — —	1	— — —	OK
Leakage current	Power supply, resister, recorder	●	●	— — —	A lot	— — —	OK

CONTROL NO. :

DATE : 7/SEP/2007

APPROVED	VERIFIED	PREPARED
S. Fujiwara	H. Honda	Y. Obata

MATERIAL SAFETY DATA SHEET

Product name	C2600 Tin Plated	Application		Water release 1. necessary to treat (2) None	
Manufacturer	DOWA METAL CO., LTD		PHONE 001-81-539-62-3131 FAX 001-81-539-62-3996		
Address	767 Matsunokijima, Iwata-shi, Shizuoka Prefecture, Japan				
Business Office	DOWA METALTECH CO., LTD Metal Processing Business Unit		PHONE 001-81-3-6847-1251 FAX 001-81-3-6847-1261		
Address	14-1 4-Chome Sotokanda, Chiyoda District, Tokyo, Japan				
COMPOSITION		HARM TO HEALTH			
Chemical element	wt. %	Threshold concentration	LD50	Skin Irritation	Carcinogenicity
Cu	69.53				
Pb	0.01>				
Fe	0.02>				
Sn	0.42				
Zn	Remainder				
As product	100				
FIRE AND EXPLOSION HAZARD			TOXICOLOGY		
1. Flammable or explosible. 2. Pyrophoric or exothermic when contacting () 3. With fear of splitting. 4. Dust explosible. 5. Others () 6. No hazard.			1. Skin is inflated if contacting with. 2. Skin is injured if contacting with. 3. Eyes are irritated if contacting with. 4. Eyesight may lose if contacting with 5. Inhalation results irritation to the throat, upper respiratory tract. 6. Inhalation causes headache, vertigo. 7. Anesthesia may be caused by inhalation. 8. Poison is caused by inhalation. 9. Poison is caused by drinking. 10. Others () 11. No harm.		
CONCERNED LAWS (including the regulations issued by the Ministry of Labor)					
The law of labor safety and health					
1. The regulation for preventing the poison of organic solvent, the () categories. Name of material ()					
2. The regulation for preventing defect from specified chemical materials. The () kind. Name of material ()					
3. Regulation for preventing lead poison.					
4. No. 477 regulation issued by The Ministry of Labor in 1976, titled preventing health defect from stiffener of epoxy resin.					
5. No. 60 notification issued by The Ministry of Labor in 1992 titled guideline for indication of the hazard and harms of chemical materials.					
6. Other Regulations, notifications. ()					
7. No concerned.					
Fire Law					
1. The () category hazard substance, name () category.					
Property (non-aqueous, aqueous) the registration number of data base ()					
2. Specified combustible substance, name () category.					
3. Other ()					
4. No concerned.					

Other laws							
1.The law of control on high pressure gas.							
2.Specifically controlled industrial waste defined in the law of waste disposal.							
[a. Waste oil b. Waste alkali c. Waste acid d. Others()]							
3.The law of control on poisonous and drastic substances.							
[a. Poisonous substance b. Drastic substance(composition())]							
④Others () 5.No concerned.							
PHYSICAL PROPERTIES							
Specific gravity	8.53	Melting point	955°C	boiling point	—	flaming point	—
Igniting point	—	Vapor density	—	explosion range	—	pH	—
SHAPE	1.Liquid 2.Gas(pressure) 3.Powder(particle size) ④Solid 5.Others()						
PRECAUTIONS FOR HANDLING	1.Handle in well ventilated places. ②Use protective equipment. [a. Gloves b. Apron c. Mask d. Glasses e. Others()] 3.Run local ventilation fan 4.Fire prohibited 5.Water prohibited. 6.Avoid collisions 7.Use protective cream. 8.Others() 9.None.						
PRECAUTIONS FOR HANDLING	1.Ventilate. 2.Avoid storing together with other substances. 3.Set lightning rod. 4.Store at cool places. 5.Store at cool and dark places. 6.Lock up. 7.Avoid direct sunlight. 8.Fear of auto ignition. ③Others.(keep away from acid and alkali substance 10.None.						
FIRE FIGHTING	1.Fear of generation of harmful gas.() 2.Fear of explosion. 3.Pouring water prohibited. 4.Others.() 5.Extinguishing media[a.Water b. Carbonic acid gas c. Powder extinguisher] [d. Bubble extinguisher e. Water spray f. Earth and sand] [g. Others()] ⑥None.						
SPILL AND LEAKAGE PROCEDURES	1. Absorb with[a. Waste cloth b. Dry sand c. Sawdust d. Others()] 2.Collect with vacuum. 3.Neutralize with() 4.Fire prohibited. 5.Avoid pouring water. 6.Handle with care because of harm. 7.Others.() ③None.						
FIRST AID	1.On occasion adhering to the body [a. Wash with water b. Wash with soap c. Others() d. Nothing necessary] 2.On occasion adhering eyes [a. Flush eyes for()minutes ③Others(call physician) c. Nothing necessary] 3. On occasion being drunk [a. Spit out b. Do not spit out c. Rinse the mouth ④Others(call physician)] [e. Nothing necessary] 4. On occasion being inhaled [a. Move to fresh air and rest b. Keep warm ③Others(call physician)] [e. Nothing necessary]						
WASTE DISPOSE	1. Send to waste treatment clearer [a. Burn b. Neutralize with() c. Others()] 2.Drainage treatment(condense and sediment-treat biologically) 3.Return to the manufacturer. ④May be recycled. 5.Others()						

PART SUBMISSION WARRANT



Part Name TER-WUS120FSSN		Cust. Part Number	
Shown on Drawing No. S- 107033		Org. Part Number 8240-0509	
Engineering Drawing Change Level 3		Dated 09.Jan.'16	
Additional Engineering Changes N/A		Dated N/A	
Safety and/or Government Regulation <input type="radio"/> Yes <input checked="" type="radio"/> No	Purchase Order No. N/A	Weight 0.0002 kg	
Checking Aid No. N/A	Checking Aid Engineering Change Level N/A	Dated N/A	
ORGANIZATION MANUFACTURING INFORMATION		CUSTOMER SUBMITTAL INFORMATION	
Organization Name & Supplier Sumitomo Wiring Systems,Ltd		Vendor Code N/A	
Street Address 2-SHOSEN-CHO		Customer Name/Division	
City Yokkaichi	Region Mie	Postal Code 510-0867	Country Japan
Buyer/Buyer Code		Application	
MATERIALS REPORTING			
Has customer-required Substances of Concern information been reported? <input checked="" type="radio"/> Yes <input type="radio"/> No <input type="radio"/> n/a			
Submitted by IMDS or other customer format: IMDS ID 481317658			
Are polymeric parts identified with appropriate ISO marking codes? <input type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> n/a			
REASON FOR SUBMISSION (Check at least one)			
<input checked="" type="radio"/> Initial Submission		<input type="radio"/> Change to Optional Construction or Material	
<input type="radio"/> Engineering Change(s)		<input type="radio"/> Sub-Supplier or Material Source Change	
<input type="radio"/> Tooling: Transfer, Replacement, Refurbishment, or additional		<input type="radio"/> Change in Part Processing	
<input type="radio"/> Correction of Discrepancy		<input type="radio"/> Parts Produced at Additional Location	
<input type="radio"/> Tooling Inactive >than 1 Year		<input type="checkbox"/> Other - please specify	
REQUESTED SUBMISSION LEVEL (Check one)			
<input type="radio"/> Level 1 - Warrant only (and for designated appearance items, an Appearance Approval Report) submitted to customer			
<input type="radio"/> Level 2 - Warrant with product samples and limited supporting data submitted to customer			
<input checked="" type="radio"/> Level 3 - warrant with product samples and complete supporting data submitted to customer			
<input type="radio"/> Level 4 - Warrant and other requirements as defined by customer			
<input type="radio"/> Level 5 - Warrant with product samples and complete supporting data reviewed at supplier's manufacturing location.			
SUBMISSION RESULTS			
The results for <input checked="" type="checkbox"/> dimensional measurements <input checked="" type="checkbox"/> material and functional tests <input type="checkbox"/> appearance criteria <input type="checkbox"/> statistical process package			
These results meet all drawing and specification requirements: <input checked="" type="radio"/> Yes <input type="radio"/> No (If "NO" - Explanation Required)			
Mold/cavity/Production Process		Mold: SZ1 Cavity: 1(SZ1) Production Process: Stamping	
DECLARATION			
I affirm that the samples represented by this warrant are representative of our parts which were made by a process that meets all Production Part Approval Process Manual 4th Edition Requirements. I further affirm that these samples were produced at the production rate of 153,600 / 8 hours*			
I also certify that documented evidence of such compliance is on file and available for review. I have noted any deviations from this declaration below.			
EXPLANATION / COMMENTS:			
Is each Customer Tool properly tagged and numbered? <input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> n/a			
Organization Authorized Signature K. Ota		Dated 18.Oct.'16	
Print Name Katsuyuki Ota		Phone No. 81-593-45-8216	Fax 81-593-45-8247
Title Components Gr. QA Dep. Deputy General Manager		E-mail katsuyuki-oota@gate.sws.co.jp	
FOR CUSTOMER USE ONLY (IF APPLICABLE)			
Part warrant disposition: <input type="radio"/> Approved <input type="radio"/> Rejected <input type="radio"/> Other			
Customer Signature		Dated	
Print Name		Customer tracking number (optional)	

CFG-1001

PART SUBMISSION WARRANT



Part Name TER-WUS120FSSN				Cust. Part Number	
Shown on Drawing No. S- 107033				Org. Part Number 8240-0509	
Engineering Drawing Change Level 3				Dated 09.Jan.'16	
Additional Engineering Changes N/A				Dated N/A	
Safety and/or Government Regulation <input type="radio"/> Yes <input checked="" type="radio"/> No		Purchase Order No. N/A		Weight 0.0002 kg	
Checking Aid No. N/A		Checking Aid Engineering Change Level N/A		Dated N/A	
ORGANIZATION MANUFACTURING INFORMATION				CUSTOMER SUBMITTAL INFORMATION	
Organization Name & Supplier Sumitomo Wiring Systems,Ltd			Vendor Code N/A		Customer Name/Division
Street Address 2-SHOSEN-CHO			Buyer/Buyer Code		
City Yokkaichi	Region Mie	Postal Code 510-0867	Country Japan	Application	
MATERIALS REPORTING					
Has customer-required Substances of Concern information been reported? <input checked="" type="radio"/> Yes <input type="radio"/> No <input type="radio"/> n/a					
Submitted by IMDS or other customer format: IMDS ID 481317658					
Are polymeric parts identified with appropriate ISO marking codes? <input type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> n/a					
REASON FOR SUBMISSION (Check at least one)					
<input checked="" type="radio"/> Initial Submission		<input type="radio"/> Change to Optional Construction or Material			
<input type="radio"/> Engineering Change(s)		<input type="radio"/> Sub-Supplier or Material Source Change			
<input type="radio"/> Tooling: Transfer, Replacement, Refurbishment, or additional		<input type="radio"/> Change in Part Processing			
<input type="radio"/> Correction of Discrepancy		<input type="radio"/> Parts Produced at Additional Location			
<input type="radio"/> Tooling Inactive >than 1 Year		<input type="checkbox"/> Other - please specify			
REQUESTED SUBMISSION LEVEL (Check one)					
<input type="radio"/> Level 1 - Warrant only (and for designated appearance items, an Appearance Approval Report) submitted to customer					
<input type="radio"/> Level 2 - Warrant with product samples and limited supporting data submitted to customer					
<input checked="" type="radio"/> Level 3 - warrant with product samples and complete supporting data submitted to customer					
<input type="radio"/> Level 4 - Warrant and other requirements as defined by customer					
<input type="radio"/> Level 5 - Warrant with product samples and complete supporting data reviewed at supplier's manufacturing location.					
SUBMISSION RESULTS					
The results for <input checked="" type="checkbox"/> dimensional measurements <input checked="" type="checkbox"/> material and functional tests <input type="checkbox"/> appearance criteria <input type="checkbox"/> statistical process package					
These results meet all drawing and specification requirements: <input checked="" type="radio"/> Yes <input type="radio"/> No (If "NO" - Explanation Required)					
Mold/cavity/Production Process		Mold: SZ2		Cavity: 1(SZ2) Production Process: Stamping	
DECLARATION					
I affirm that the samples represented by this warrant are representative of our parts which were made by a process that meets all Production Part Approval Process Manual 4th Edition Requirements. I further affirm that these samples were produced at the production rate of 153,600 / 8 hours*					
I also certify that documented evidence of such compliance is on file and available for review. I have noted any deviations from this declaration below.					
EXPLANATION / COMMENTS:					
Is each Customer Tool properly tagged and numbered? <input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> n/a					
Organization Authorized Signature K. Ota				Dated 18.Oct.'16	
Print Name Katsuyuki Ota			Phone No. 81-593-45-8216		Fax 81-593-45-8247
Title Components Gr. QA Dep. Deputy General Manager			E-mail katsuyuki-oota@gate.sws.co.jp		
FOR CUSTOMER USE ONLY (IF APPLICABLE)					
Part warrant disposition: <input type="radio"/> Approved <input type="radio"/> Rejected <input type="radio"/> Other					
Customer Signature				Dated	
Print Name			Customer tracking number (optional)		

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PART SUBMISSION WARRANT



Part Name TER-WUS120FSSN				Cust. Part Number	
Shown on Drawing No. S- 107033				Org. Part Number 8240-0509	
Engineering Drawing Change Level 3				Dated 09.Jan.'16	
Additional Engineering Changes N/A				Dated N/A	
Safety and/or Government Regulation <input type="radio"/> Yes <input checked="" type="radio"/> No		Purchase Order No. N/A		Weight 0.0002 kg	
Checking Aid No. N/A		Checking Aid Engineering Change Level N/A		Dated N/A	
ORGANIZATION MANUFACTURING INFORMATION				CUSTOMER SUBMITTAL INFORMATION	
Organization Name & Supplier Sumitomo Wiring Systems,Ltd			Vendor Code N/A		Customer Name/Division
Street Address 2-SHOSEN-CHO			Buyer/Buyer Code		
City Yokkaichi	Region Mie	Postal Code 510-0867	Country Japan		Application
MATERIALS REPORTING					
Has customer-required Substances of Concern information been reported? <input checked="" type="radio"/> Yes <input type="radio"/> No <input type="radio"/> n/a					
Submitted by IMDS or other customer format: IMDS ID 481317658					
Are polymeric parts identified with appropriate ISO marking codes? <input type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> n/a					
REASON FOR SUBMISSION (Check at least one)					
<input checked="" type="radio"/> Initial Submission		<input type="radio"/> Change to Optional Construction or Material			
<input type="radio"/> Engineering Change(s)		<input type="radio"/> Sub-Supplier or Material Source Change			
<input type="radio"/> Tooling: Transfer, Replacement, Refurbishment, or additional		<input type="radio"/> Change in Part Processing			
<input type="radio"/> Correction of Discrepancy		<input type="radio"/> Parts Produced at Additional Location			
<input type="radio"/> Tooling Inactive >than 1 Year		<input type="checkbox"/> Other - please specify			
REQUESTED SUBMISSION LEVEL (Check one)					
<input type="radio"/> Level 1 - Warrant only (and for designated appearance items, an Appearance Approval Report) submitted to customer					
<input type="radio"/> Level 2 - Warrant with product samples and limited supporting data submitted to customer					
<input checked="" type="radio"/> Level 3 - warrant with product samples and complete supporting data submitted to customer					
<input type="radio"/> Level 4 - Warrant and other requirements as defined by customer					
<input type="radio"/> Level 5 - Warrant with product samples and complete supporting data reviewed at supplier's manufacturing location.					
SUBMISSION RESULTS					
The results for <input checked="" type="checkbox"/> dimensional measurements <input checked="" type="checkbox"/> material and functional tests <input type="checkbox"/> appearance criteria <input type="checkbox"/> statistical process package					
These results meet all drawing and specification requirements: <input checked="" type="radio"/> Yes <input type="radio"/> No (If "NO" - Explanation Required)					
Mold/cavity/Production Process		Mold: SZ3		Cavity: 1(SZ3) Production Process: Stamping	
DECLARATION					
I affirm that the samples represented by this warrant are representative of our parts which were made by a process that meets all Production Part Approval Process Manual 4th Edition Requirements. I further affirm that these samples were produced at the production rate of 153,600 / 8 hours*					
I also certify that documented evidence of such compliance is on file and available for review. I have noted any deviations from this declaration below.					
EXPLANATION / COMMENTS:					
Is each Customer Tool properly tagged and numbered? <input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> n/a					
Organization Authorized Signature K. Ota				Dated 18.Oct.'16	
Print Name Katsuyuki Ota			Phone No. 81-593-45-8216		Fax 81-593-45-8247
Title Components Gr. QA Dep. Deputy General Manager			E-mail katsuyuki-oota@gate.sws.co.jp		
FOR CUSTOMER USE ONLY (IF APPLICABLE)					
Part warrant disposition: <input type="radio"/> Approved <input type="radio"/> Rejected <input type="radio"/> Other					
Customer Signature				Dated	
Print Name			Customer tracking number (optional)		

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