



Product Change Notification

TE Connectivity

Product Change Notification: P-21-021898

PCN Date: 15-DEC-21

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

General Product Description:

TJ Ferrules HET / GPL 588 - Manufacturing Location Change.

Description of Changes

TE has qualified new suppliers to provide the machining and plating TJ Ferrules HET Series, the new supplier was approved by TE before allowing them to supply us parts. This change is only for manufacturing location change. There will be no change to the form, fit, or function of the material. Shipments began on 02/21/2022 without notification.

Other attachments:

[FAI 730181-000](#)

[FAI 946037-000](#)

Reason for Changes:

This change is to increase our supply chain capacity and provide a better source for the ferrules operation. New suppliers will be qualified and approved by TE. There will be no change to the form, fit, or function of the material. The part numbers of the ferrules will not change.

Estimated Dates:

Last Order Date (Obsolete Parts Only):	First Date To Ship (Changed Parts Only):
	16-DEC-2021
Last Ship Date (Obsolete Parts Only):	Last Date for Mixed Shipments: (Changed Parts Only):
	03-DEC-2022

Part Number(s) being Modified:

Part Number	Part Discontinued per PCN	Customer Drawing	Customer Part Number	Alias Part Number(s)	Substitute Part Number	Substitute Alias Part Number(s)	Description Of Difference
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Part Number	Part Discontinued per PCN	Customer Drawing	Customer Part Number	Alias Part Number(s)	Substitute Part Number	Substitute Alias Part Number(s)	Description Of Difference
730181-000	NO			"6-1195704-1", "HET-A-04C"			

Part Number(s) being Modified:


Part Number	Part Discontinued per PCN	Customer Drawing	Customer Part Number	Alias Part Number(s)	Substitute Part Number	Substitute Alias Part Number(s)	Description Of Difference
730181-000	NO			"6-1195704-1", "HET-A-04C"			



First Article Inspection

TMX-800-4012
Revision: B
29-Aug-16

Form 1: Part Number Accountability


1. Part Number: 730181-000	2. Part Name:- HET-A-04C FERRULE AND SOLDERSHIELD DEVICE FOR HEXASHIELD ADAPTERS	3. Serial Number: N/A	4. FAIR Number: 200011963735
5. Part Revision Level: A	6. Drawing Number: HET-A-04X	7. Drawing revision level: A	8. Additional Changes: N/A
9. Manufacturing Process Reference: LOTE: 0223902398	10. Organization Name: TE Connectivity TJ Operations	11. Supplier Code: 06090	12. P.O. Number: N/A
13. Detail Part <input checked="" type="checkbox"/> _____ Assembly FAI <input type="checkbox"/> _____	14. Full FAI <input checked="" type="checkbox"/> _____ Partial FAI <input type="checkbox"/> _____ Baseline Part Number (including revision level) Reason for Partial FAI: N/A		
a) if above part number is a detail part only, go to field 19 b) if above part number is an assembly, go to the "INDEX" section below.			
INDEX of part numbers or sub-assembly numbers required to make the assembly noted above.			
15. Part Number	16. Part Name	17. Part Serial Number	18. FAIR Number
19. Signature Liliana Catalan <i>Liliana Catalan</i> <input checked="" type="checkbox"/> FAI Complete  <input type="checkbox"/> FAI Not Complete			20. Date 12/14/2021
21. Reviewed By <i>Ivan Contreras</i> Ivan Contreras Q.A. Eng <i>R. Ortega</i> Ruben Ortega Q.A. Manager			22. Date 12/14/2021
23. Customer Approval			24. Date



First Article Inspection

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Form 2: Product Accountability – Materials, Special Processes and Functional Testing

1. Part Number: 730181-000	2 Part Name: HET-A-04C FERRULE AND SOLDERSHIELD DEVICE FOR HEXASHIELD ADAPTERS		3. Serial Number: N/A		4. FAIR Number: 200011963735
5. Material or Process Name:	6. Specification Number:	7. Code	8. Supplier:	9. Customer Approval Verification:	10. Certificate of Conformance Number:
SOLDERSHIELD	046205-000 B-070-12-11-01	N/A	06090	N/A	LOTE: 0223041676/ 0223870216
HEAT SHRINK TUBING FOR DEVICES	326975-000 D-098-01-66-09	N/A	06090	N/A	REFERENCE: LOTE: 0222235616/ 0222758933 0223773616
HEAT SHRINK TUBING FOR DEVICES	925023-000 D-098-01-66-04	N/A	2090	N/A	REFERENCE: LOTE: 201970897/201981999/ 202004604
SOLDER FOR DEVICES	EP3974-000 D-099-13-09-23	N/A	150368	N/A	REFERENCE: LOTE: BPDD74/BPDB9842
FERRULE 2 (NICKEL PLATED)	223157-000 HET-01-2	N/A	06090	N/A	LOTE: 0222975743
HEAT SHRINK TUBING FOR DEVICES	662116-000 D-098-03-16-10	N/A	2090	N/A	LOTE: 201997665
11. Functional Test Procedure Number: N/A	12. Acceptance report number: N/A				
13. Comments N/A					
14. Signature Liliana Catalan 			15. Date 12/14/2021		



First Article Inspection

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Form 3: Characteristic Accountability, Verification and Compatibility Evaluation

1. Part Number 730181-000				2. Part Name HET-A-04C FERRULE AND SOLDERSHIELD DEVICE FOR HEXASHIELD ADAPTERS			3. Serial Number N/A	4. FAIR Number 200011963735
Characteristic Accountability				Inspection / Test Results				
5. Char No.	6. Reference Location	7. Characteristic Designator	8. Requirement	9. Results	10. Designed / Qualified Tooling	11. Non-Conformance Number	14. Additional Data / Comments	
1	SCD HET-A-04X	MAJOR	Ø 6.10mm min (Ø 0.240" min)	CONFORM 6.13mm	PIN GAUGE ID#PGS#076 DUE DATE:04/28/22	N/A	N/A	
2	SCD HET-A-04X	MAJOR	19.50mm min (0.768" min)	CONFORM 19.94mm	CALIPER ID#VER#243 DUE DATE:11/22/2022	N/A	N/A	
3	SCD HET-A-04X	MAJOR	30.00mm max (1.181" max)	CONFORM 27.71mm	CALIPER ID#VER#243 DUE DATE:11/22/2022	N/A	N/A	
4	SCD HET-A-04X	MAJOR	Ø 9.00mm min (Ø 0.354" min)	CONFORM 9.21mm	PIN GAUGE ID#PGS#077 DUE DATE:04/28/22	N/A	N/A	
5	SCD HET-A-04X	MAJOR	2.00mm max (0.079" max)	CONFORM 1.67mm	CALIPER ID#VER#243 DUE DATE:11/22/2022	N/A	N/A	
6	SCD HET-A-04X	MAJOR	Ø 5.20mm min (Ø 0.205" min)	CONFORM 5.59mm	PIN GAUGE ID#PGS#076 DUE DATE:04/28/22	N/A	N/A	
7	SCD HET-A-04X	MAJOR	Ø 5.10mm nom (Ø 0.200" nom)	CONFORM 5.14mm	CALIPER ID#VER#243 DUE DATE:11/22/2022	N/A	N/A	
8	SCD HET-A-04X	MAJOR	15.70mm max (0.620" max)	CONFORM 15.61mm	CALIPER ID#VER#243 DUE DATE:11/22/2022	N/A	N/A	
9	SCD HET-A-04X	MAJOR	Ø 4.30mm min (Ø 0.170" min)	CONFORM 4.35mm	PIN GAUGE ID#PGS#076 DUE DATE:04/28/22	N/A	N/A	

Based on AS/EN/SJAC 9102 Rev. B

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First Article Inspection

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Form 3: Characteristic Accountability, Verification and Compatibility Evaluation

10	SCD HET-A-04X MATERIALS	MAJOR	662116-000 INSULATION SLEEVE: Heat-shrinkable, transparent blue, radiation cross-linked modified polyvinylidene fluoride.	CONFORM	C of C LOTE: 201997665	N/A	N/A
11	SCD HET-A-04X MATERIALS	MAJOR	223157-000 FERRULE: Copper alloy with a suitable plating (see below for plating information).	CONFORM	C of C LOTE: 0222975743	N/A	N/A
12	SCD HET-A-04X MATERIALS	MAJOR	046205-000 SOLDERSHIELD DEVICE: - Heat-shrinkable insulation sleeve, transparent blue, radiation cross-linked modified polyvinylidene fluoride. - Copper braid pre-tinned with Sn96Ag4 solder alloy with activated rosin flux. - Solder Preform: Sn96Ag4 solder alloy, with activated rosin flux.	CONFORM	C of C LOTE: 0223041676/ 0223870216	N/A	N/A
13	SCD HET-A-04X APPLICATION	MINOR	These parts are used on Tyco Electronics/Raychem Hexashield adaptors.	INFO ONLY	N/A	N/A	N/A
14	SCD HET-A-04X APPLICATION	MINOR	Cable Type: Single or multi-conductors shielded cable: Raychem Spec 44 or Spec 55, single braid. (tin, silver or nickel-plated copper braid)	INFO ONLY	N/A	N/A	N/A
15	SCD HET-A-04X APPLICATION	MINOR	Temperature range: -65°C to +175°C.	INFO ONLY	N/A	N/A	N/A
16	SCD HET-A-04X APPLICATION	MINOR	For all other application, contact Tyco Electronics/Raychem technical service.	INFO ONLY	N/A	N/A	N/A
17	SCD HET-A-04X Cable Dimensions	MINOR	Ø A 4.30mm (0.169") min 8.90mm (0.350") max	INFO ONLY	N/A	N/A	N/A
18	SCD HET-A-04X Cable Dimensions	MINOR	Ø B 3.50mm (0.138") min 6.20mm (0.244") max	INFO ONLY	N/A	N/A	N/A

Based on AS/EN/SJAC 9102 Rev. B


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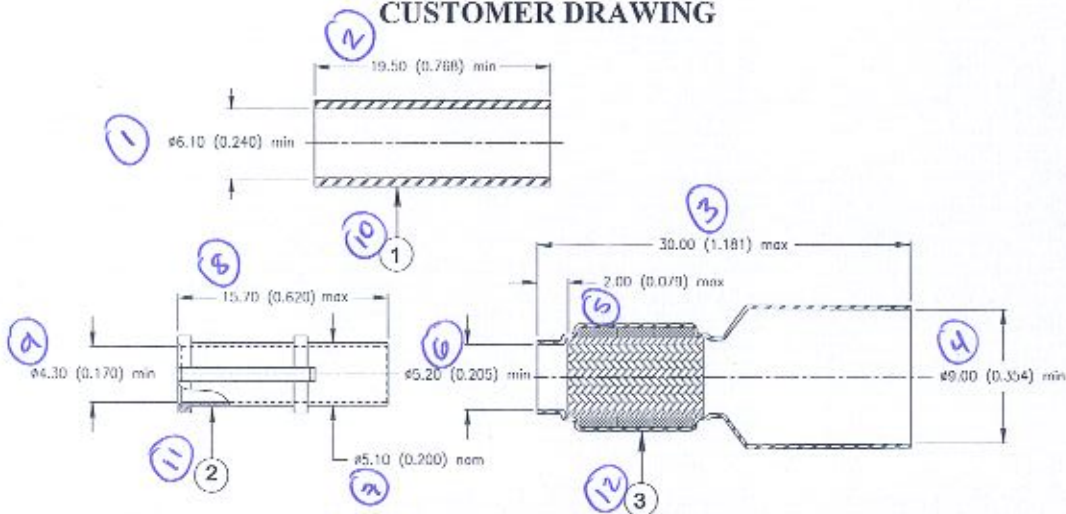
First Article Inspection

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29-Aug-16

Form 3: Characteristic Accountability, Verification and Compatibility Evaluation

19	SCD HET-A-04X Cable Dimensions	MINOR	Ø C 4.20mm (0.165") max	INFO ONLY	N/A	N/A	N/A
20	SCD HET-A-04X	MINOR	PART NUMBERING HET-A-04X Ferrule Plating: B: Olive drab cadmium in accordance with SAE-AMS-QQ-P-416, over a suitable underplate to withstand 500 hours of salt spray test. C: Electroless nickel conforming to SAE- AMS-C-26074 Class 3, Grade B.	INFO ONLY	N/A	N/A	N/A
21	SCD HET-A-04X INSTALLATION	MINOR	See Tyco Electronics/Raychem installation procedure RPIP-696-00.	INFO ONLY	N/A	N/A	N/A
12. Signature							13. Date
Liliana Catalan <i>Liliana Catalan</i> 							12/14/2021

CUSTOMER DRAWING



MATERIALS

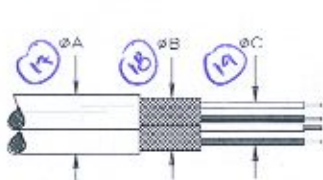
1. INSULATION SLEEVE: Heat-shrinkable, transparent blue, radiation cross-linked modified polyvinylidene fluoride.
2. FERRULE: Copper alloy with a suitable plating (see below for plating information).
3. SOLDERSHIELD DEVICE:
 - Heat-shrinkable insulation sleeve, transparent blue, radiation cross-linked modified polyvinylidene fluoride.
 - Copper braid pre-tinned with Sn96Ag4 solder alloy with activated rosin flux.
 - Solder Preform: Sn96Ag4 solder alloy, with activated rosin flux.

APPLICATION

1. These parts are used on Tyco Electronics/Raychem Hexashield adapters.
2. Cable Type: Single or multi-conductors shielded cable: Raychem Spec 44 or Spec 55, single braid. (tin, silver or nickel-plated copper braid)
3. Temperature range: -65°C to +175°C.
4. For all other application, contact Tyco Electronics/Raychem technical service.

Cable dimensions:

Maximum quantity of braids: 4



Cable Dimensions				
øA		øB		øC
Min.	Max.	Min.	Max.	Max.
4.30 (0.169)	8.90 (0.350)	3.50 (0.138)	6.20 (0.244)	4.20 (0.165)

PART NUMBERING

HET-A-04X

Ferrule Plating:

- B: Olive drab cadmium in accordance with SAE-AMS-QQ-P-416, over a suitable underplate to withstand 500 hours of salt spray test.
- C: Electroless nickel conforming to SAE-AMS-C-26074 Class 3, Grade B.

INSTALLATION

See Tyco Electronics/Raychem installation procedure RPIP-696-00.

		Tyco Electronics 300 Constitution Dr Menlo Park, CA 94025, U.S.A.		TITLE: FERRULE AND SOLDERSHIELD DEVICE FOR HEXASHIELD ADAPTERS		
Unless otherwise specified dimensions are in millimeters. [Inches dimensions are shown in brackets]		Raychem		DOCUMENT NO.: HET-A-04X		
TOLERANCES: 0.00 N/A 0.0 N/A 0 N/A	ANGLES: N/A ROUGHNESS IN MICRON	Tyco Electronics reserves the right to amend this drawing at any time. Users should evaluate the suitability of the product for their application.		REV: A	DATE: 11-May-07	
DRAWN BY: K.YEE	CAGE CODE: 06090	REPLACES: D030535	ECO NUMBER: 07-010934	SCALE: NTS	SIZE: A	SHEET: 1 of 1

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Certificate of Conformance

Page: 1

Dato/Fecha
12.07.2021
Purchase order item
N / A
Delivery item
N / A
Order item
N / A
Customer Number / Numero del Cliente
N / A
Customer Specification / Rev. Especificaciones del Cliente
N / A

Except for any exceptions, reservations, or exemptions, listed on this document, the listed supplies conform to the applicable TE Connectivity Specification. Representative inspection and/or test data is on file and available for review.

Our material number Our material description Numero de Parte del Cliente	Batch# Lote	Mfg Date Fecha De Mfg	Quantity TamañoLote
046205-000 B-070-12-11-01	0223041676	02/05/2021	1,500 PC

Ruben Ortega
Quality Assurance Representative
Tijuana Operations



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Certificate of Conformance

Page: 1

Date/Fecha
12.07.2021
Purchase order item
N / A
Delivery item
N / A
Order item
N / A
Customer Number / Numero del Cliente
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Customer Specification / Rev. Especificaciones del Cliente
N / A

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Our material number Our material description Numero de Parte del Cliente	Batch# Lote	Mfg Date Fecha De Mfg	Quantity TamañoLote
046205-000 B-070-12-11-01	0223870216	07/01/2021	250 PC

Ruben Ortega
Quality Assurance Representative
Tijuana Operations



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Page: 1

Date/Fecha
12.07.2021
Purchase order item
N / A
Delivery item
N / A
Order item
N / A
Customer Number / Numero del Cliente
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Customer Specification / Rev. Especificaciones del Cliente
N / A

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Our material number Our material description Numero de Parte del Cliente	Batch# Lote	Mfg Date Fecha De Mfg	Quantity Tamaño Lote
326975-000 D-098-01-66-09	0222235616	10/21/2020	13.000 PC

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Quality Assurance Representative
Tijuana Operations



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Page: 1

Date/Fecha
12.07.2021
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N / A
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Customer Number / Numero del Cliente
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Customer Specification / Rev. Especificaciones del Cliente
N / A

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Our material number Our material description Numero de Parte del Cliente	Batch# Lote	Mfg Date Fecha De Mfg	Quantity TamañoLote
326975-000 D-098-01-66-09	0222758933	12/16/2020	9.500 PC

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Quality Assurance Representative
Tijuana Operations



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Page: 1

Date/Fecha
12.07.2021
Purchase order item
N / A
Delivery item
N / A
Order item
N / A
Customer Number / Numero del Cliente
N / A
Customer Specification / Rev. Especificaciones del Cliente
N / A

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Our material number Our material description Numero de Parte del Cliente	Batch# Lote	Mfg Date Fecha De Mfg	Quantity TamañoLote
326975-000 D-098-01-66-09	0223773616	06/14/2021	4.000 PC

Ruben Ortega
Quality Assurance Representative
Tijuana Operations



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 44901 Industrial Road
 Fremont, CA. 94538
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TE Connectivity
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 6800 Gateway Park Dr
 San Diego CA 92154

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Date
 04/06/2020
 Purchase order item
 2710810461/1
 Delivery item
 6056006265/1
 Order Item
 3064096894/1
 Customer Number
 1327726
 Customer Specification / Rev.

Except for any exceptions, reservations, or exemptions, listed on this document, the listed supplies conform to the applicable TE Connectivity Specification. Representative inspection and/or test data is on file and available for review.

Our material description Your Material Reference	Batch#	Mat Rev	Mfg Date	Quantity
925023-000 D-098-01-66-04	201970897	V	2012	1,550 PC

MFG Loc: TE Connectivity Tubing Plant 501 Oakside Ave. Redwood City CA 94063-3800
Cage Code: _____

Michael V. Annino

Michael V. Annino
 Quality & Reliability Engineering Manager
 TE Connectivity - US



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Certificate of Conformance	
	Page: 1
Date	03/20/2021
Purchase order item	2714908503/1
Delivery Item	6064923532/1
Order item	3069285376/1
Customer Number	1327726
Customer Specification / Rev.	

Except for any exceptions, reservations, or exemptions, listed on this document, the listed supplies conform to the applicable TE Connectivity Specification. Representative inspection and/or test data is on file and available for review.

Our material description Your Material Reference	Batch#	Mat Rev	Mfg Date	Quantity
925023-000 D-098-01-66-04	202004604	V	02/2021	750 PC
MFG Loc: TE Connectivity Tubing Plant 501 Oakside Ave.Redwood City CA 94063-3800 Cage Code: _____				
925023-000 D-098-01-66-04	201981999	V	07/2020	1,250 PC
MFG Loc: TE Connectivity Tubing Plant 501 Oakside Ave.Redwood City CA 94063-3800 Cage Code: _____				



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Certificate of Conformance

Page: 2

Date
03/20/2021
Purchase order item
2714908503/1
Delivery item
6064923532/1
Order item
3069285376/1
Customer Number
1327726
Customer Specification / Rev.

Michael V. Annino
Quality & Reliability Engineering Manager
TE Connectivity - US



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Certificate of Conformance	
	Page: 1
Date	08/28/2021
Purchase order item	2716700226/1
Delivery item	6069790199/1
Order item	3071504048/1
Customer Number	1327726
Customer Specification / Rev.	

Except for any exceptions, reservations, or exemptions, listed on this document, the listed supplies conform to the applicable TE Connectivity Specification. Representative inspection and/or test data is on file and available for review.

Our material description Your Material Reference	Batch#	Mat Rev	Mfg Date	Quantity
925023-000 D-098-01-66-04	202004604	V	02/2021	700 PC
MFG Loc: TE Connectivity Tubing Plant 501 Oakside Ave.Redwood City CA 94063-3800 Cage Code: _____				
925023-000 D-098-01-66-04	202017171	V	06/2021	550 PC
MFG Loc: TE Connectivity Tubing Plant 501 Oakside Ave.Redwood City CA 94063-3800 Cage Code: _____				



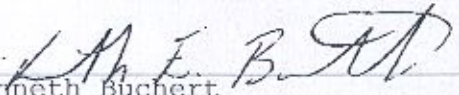
TE Connectivity
44901 Industrial Drive
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Tel: (510) 226-3830 Fax: (510) 226-3839

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Page: 2

Date
08/28/2021
Purchase order item
2716700226/1
Delivery item
6069790199/1
Order item
3071504048/1
Customer Number
1327726
Customer Specification / Rev.



Kenneth Buchert
Quality Assurance Representative
TE Connectivity - US



Indium Corporation of America

Specialty Metals Division

111 Business Park Drive, Utica, NY 13502 USA

- Certificate of Analysis and Conformance for Solder Products -

ORDER REFERENCE

Order: SN71942
Job Number: J328953

P/N: EP3974-000

PO: 2712051379

PRODUCT CERTIFICATION

Product: 96SN 4AG 4.5+/-1% RSA
Indium P/N: 166691M

Lot Number: BPDD74

Date: 12-Jun-20

Alloy Integrity		Impurities:	
Reported by:	MZ	<0.0005% Al	0.0009% Zn
Test Method(s):	ICP	0.0037% As	
Major Elements:		<0.0005% Au	
Ag 4.04 %		<0.001% Bi	
Sn 95.96 %		<0.0005% Cd	
		<0.0005% Cr	
		0.0118% Cu	
		0.0037% Fe	
		<0.001% Hg	
		0.0017% In	
		0.0011% Ni	
		0.0071% Pb	
		0.0076% Sb	
		Total: 0.0376% (376 PPM)	>99.9% Pure

RoHS Compliance:			
Pb	Actual	RoHS Max.	<i>Indium certifies that this product meets RoHS requirements if Pb or Cd is not part of the alloy constituency. Additionally, any product that is <99.9% pure is not certified to be RoHS compliant. Review RoHS directive for any applicable exemptions.</i>
	0.0071%	0.1000%	
Cd	<0.0005%	0.0100%	
Total Cr	<0.0005%	0.1000%	
Hg	<0.001%	0.1000%	

J-STD 004B Flux Type: ROM1	This product is in compliance with TE Connectivity Specification PS-D099 Rev N. The Flux Coating on this solder alloy preform product complies with TEC 138-702 and does not contain any materials on the REACH SVHC list, including but not limited to HBCDD. The Solder preform metal alloy chemistry content conforms to all relevant TE Connectivity specifications and drawings.
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Comments QTY: 153125 / BN: 2000015

CONFORMANCE STATEMENT

The Indium Corporation of America certifies that all product manufactured for this order has been made in accordance with its standard procedures and practices including requirements defined on the purchase order and in other customer specific requirements documents. Test reports to substantiate the same are retained in Indium Corporation files and are available to view at a mutually agreed upon time. We also certify that the goods are of USA origin, unless otherwise stated. If goods contain foreign materials, such materials have undergone substantial transformation in the USA.


Gary Rotzler
Quality Manager

APPROVING OFFICER


Jessica Burke
Quality Technician

Certification Date: 12-Jun-20 12:18 PM



Contact our engineers: askus@indium.com

Learn more: www.indium.com

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Specialty Metals Division

111 Business Park Drive, Utica, NY 13502 USA

- Certificate of Analysis and Conformance for Solder Products -

ORDER REFERENCE

Order: SN71942
Job Number: J328953

P/N: EP3974-000

PO: 2712051379

PRODUCT CERTIFICATION

Product: 96SN 4AG 4.5+/-1% RSA
Indium P/N: 166891M

Lot Number: BPDB9842

Date: 11-Jun-20

Alloy Integrity		Impurities:	
Reported by:	MZ	0.0018% Al	<0.0005% Zn
Test Method(s):	ICP	0.0075% As	
Major Elements:		<0.0005% Au	
Ag 4.01 %		0.0013% Bi	
Sn 95.99 %		<0.0005% Cd	
		<0.0005% Cr	
		0.013% Cu	
		0.0042% Fe	
		<0.001% Hg	
		0.0035% In	
		0.0021% Ni	
		0.0317% Pb	
		0.0023% Sb	
		Total: 0.0674% (674, PPM)	>99.9% Pure

RoHS Compliance:			
Pb	Actual	RoHS Max.	<i>Indium certifies that this product meets RoHS requirements if Pb or Cd is not part of the alloy constituency. Additionally, any product that is <99.9% pure is not certified to be RoHS compliant. Review RoHS directive for any applicable exemptions.</i>
	0.0317%	0.1000%	
Cd	<0.0005%	0.0100%	
Total Cr	<0.0005%	0.1000%	
Hg	<0.001%	0.1000%	

J-STD 004B Flux Type: ROM1	This product is in compliance with TE Connectivity Specification PS-D099 Rev N. The Flux Coating on this solder alloy preform product complies with TEC 138-702 and does not contain any materials on the REACH SVHC list, including but not limited to HBCDD. The Solder preform metal alloy chemistry content conforms to all relevant TE Connectivity specifications and drawings.
----------------------------	---

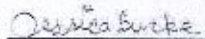
Comments QTY: 58125 / BN: 2000015

CONFORMANCE STATEMENT

The Indium Corporation of America certifies that all product manufactured for this order has been made in accordance with its standard procedures and practices including requirements defined on the purchase order and in other customer specific requirements documents. Test reports to substantiate the same are retained in Indium Corporation files and are available to view at a mutually agreed upon time. We also certify that the goods are of USA origin, unless otherwise stated. If goods contain foreign materials, such materials have undergone substantial transformation in the USA.


Gary Retzler
Quality Manager

APPROVING OFFICER


Jessica Burke
Quality Technician

Certification Date: 12-Jun-20 09:25 AM



Contact our engineers: askus@indium.com

Learn more: www.indium.com

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Form No. 97804 R4
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Tijuana Operations Plant
Av. Produccion No. 20, Parque Ind Int Tijuana
Tijuana, B.C. Mexico CP. 22424
Tel: +52 (664) 647-4500 Fax: +52 (664) 647-4550

Certificate of Conformance

Page: 1

Date/Fecha
12.08.2021
Purchase order item
N / A
Delivery item
N / A
Order item
N / A
Customer Number / Numero del Cliente
N / A
Customer Specification / Rev. Especificaciones del Cliente
N / A

Except for any exceptions, reservations, or exemptions, listed on this document, the listed supplies conform to the applicable TE Connectivity Specification. Representative inspection and/or test data is on file and available for review.

Our material number Our material description Numero de Parte del Cliente	Batch# Lote	Mfg Date Fecha De Mfg	Quantity TamañoLote
223157-000 HET-01-2	0222975743	04/22/2021	5.000 PC

Ruben Ortega
Quality Assurance Representative
Tijuana Operations



TE Connectivity Corporation
 44901 Industrial Road
 Fremont, CA. 94538
 Tel: (510) 226-3830 Fax: (510) 226-3839

TE Connectivity
 c/o DHL Global Forwarding
 6800 Gateway Park Dr
 San Diego CA 92154

Certificate of Conformance	
	Page: 1
Date	02/15/2021
Purchase order item	2714209541/1
Delivery item	6063829258/1
Order item	3068423797/1
Customer Number	1327726
Customer Specification / Rev.	

Except for any exceptions, reservations, or exemptions, listed on this document, the listed supplies conform to the applicable TE Connectivity Specification. Representative inspection and/or test data is on file and available for review.

Our material description Your Material Reference	Batch#	Mat Rev	Mfg Date	Quantity
662116-000 D-098-03-16-10	201997665	V	12/2020	20,000 PC

MFG Loc: TE Connectivity Tubing Plant 501 Oakside Ave.Redwood City CA 94063-3800
 Cage Code: _____

Michael V. Annino


Michael V. Annino
 Quality & Reliability Engineering Manager
 TE Connectivity - US



First Article Inspection

TMX-800-4012
Revision: B
29-Aug-16

Form 1: Part Number Accountability

1. Part Number: 946037-000	2. Part Name: HET-A-02B FERRULE AND SOLDERSHIELD DEVICE FOR HEXASHIELD ADAPTORS	3. Serial Number: N/A	4. FAIR Number: 200011992488
5. Part Revision Level: A1	6. Drawing Number: HET-A-02X	7. Drawing revision level: A1	8. Additional Changes: N/A
9. Manufacturing Process Reference: LOTE: 200224596867	10. Organization Name: TE Connectivity TJ Operations	11. Supplier Code: 06090	12. P.O. Number: N/A
13. Detail Part <u> X </u> Assembly FAI _____	14. Full FAI <u> X </u> Partial FAI _____ <i>Baseline Part Number (including revision level)</i> <i>Reason for Partial FAI:</i> N/A		
a) if above part number is a detail part only, go to field 19 b) if above part number is an assembly, go to the "INDEX" section below.			
INDEX of part numbers or sub-assembly numbers required to make the assembly noted above.			
15. Part Number	16. Part Name	17. Part Serial Number	18. FAIR Number
19. Signature Liliana Catalan <i>Liliana Catalan</i>	<input checked="" type="checkbox"/> FAI Complete  <input type="checkbox"/> FAI Not Complete		20. Date 12/14/2021
21. Reviewed By <i>Ivan Contreras</i> Ivan Contreras Q.A. Eng	<i>Rubén Ortega</i> Ruben Ortega Q.A. Manager		22. Date 12/14/2021
23. Customer Approval	24. Date		



First Article Inspection

TMX-800-4012
Revision: B
29-Aug-16

Form 2: Product Accountability – Materials, Special Processes and Functional Testing

1. Part Number: 946037-000	2 Part Name: HET-A-02B FERRULE AND SOLDERSHIELD DEVICE FOR HEXASHIELD ADAPTORS		3. Serial Number: N/A		4. FAIR Number: 200011992488
5. Material or Process Name:	6. Specification Number:	7. Code	8. Supplier:	9. Customer Approval Verification:	10. Certificate of Conformance Number:
SOLDERSHIELD	514715-000 B-070-12-08-01	N/A	06090	N/A	LOTE: 0224340962/ 0224340963
HEAT SHRINK TUBING FOR DEVICES	080521-000 D-098-01-33-14	N/A	06090	N/A	REFERENCE: LOTE: 0223555398/0224372686
HEAT SHRINK TUBING FOR DEVICES	652365-000 D-098-01-33-10	N/A	2090	N/A	REFERENCE: LOTE: 201970068
SOLDERSHIELD	CC2375-000 D-094-98-12-TJ	N/A	06090	N/A	LOTE: 0224047948/0224717629 REFERENCE: 192491-000 D-094-98-12-11-03
SOLDER FOR DEVICES	EP5360-000 D-099-98-08-00-2	N/A	150368	N/A	LOTE: FC11609
FERRULE 1 CADMIUM PLATED	803059-000 HET-01-1	N/A	06090	N/A	LOTE: 0223695379
HEAT SHRINK TUBING FOR DEVICES	662116-000 D-098-03-16-10	N/A	2090	N/A	LOTE: 202003105
11. Functional Test Procedure Number: N/A	12. Acceptance report number: N/A				
13. Comments N/A					
14. Signature Liliana Catalan <i>Liliana Catalán</i>			15. Date 12/14/2021		





First Article Inspection

TMX-800-4012
Revision: B
29-Aug-16

Form 3: Characteristic Accountability, Verification and Compatibility Evaluation

1. Part Number			2. Part Name			3. Serial Number	4. FAIR Number
946037-000			HET-A-02B FERRULE AND SOLDERSHIELD DEVICE FOR HEXASHIELD ADAPTORS			N/A	200011992488
Characteristic Accountability				Inspection / Test Results			
5. Char No.	6. Reference Location	7. Characteristic Designator	8. Requirement	9. Results	10. Designed / Qualified Tooling	11. Non-Conformance Number	14. Additional Data / Comments
1	SCD HET-A-02X	MAJOR	Ø 6.10mm min (Ø 0.240" min)	CONFORM 6.51mm	PIN GAUGE ID#PGS#076 DUE DATE:02/28/22	N/A	N/A
2	SCD HET-A-02X	MAJOR	19.50mm min (0.768" min)	CONFORM 20.13mm	CALIPER ID#VER#473 DUE DATE:11/22/2022	N/A	N/A
3	SCD HET-A-02X	MAJOR	26.50mm max (1.045" max)	CONFORM 24.76mm	CALIPER ID#VER#473 DUE DATE:11/22/2022	N/A	N/A
4	SCD HET-A-02X	MAJOR	Ø 7.00mm min (Ø 0.275" min)	CONFORM 7.39mm	PIN GAUGE ID#PGS#076 DUE DATE:02/28/22	N/A	N/A
5	SCD HET-A-02X	MAJOR	2.00mm max (0.080" max)	CONFORM 1.07mm	CALIPER ID#VER#473 DUE DATE:11/22/2022	N/A	N/A
6	SCD HET-A-02X	MAJOR	Ø 5.20mm min (Ø 0.205" min)	CONFORM 5.40mm	PIN GAUGE ID#PGS#076 DUE DATE:02/28/22	N/A	N/A
7	SCD HET-A-02X	MAJOR	Ø 5.10mm nom (Ø 0.200" nom)	CONFORM 5.10mm	CALIPER ID#VER#473 DUE DATE:11/22/2022	N/A	N/A
8	SCD HET-A-02X	MAJOR	15.70mm max (0.620" max)	CONFORM 15.58mm	CALIPER ID#VER#473 DUE DATE:11/22/2022	N/A	N/A
9	SCD HET-A-02X	MAJOR	Ø 4.30mm min (Ø 0.170" min)	CONFORM 4.33mm	PIN GAUGE ID#PGS#076 DUE DATE:02/28/22	N/A	N/A

Based on AS/EN/SJAC 9102 Rev. B

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First Article Inspection

TMX-800-4012
Revision: B
29-Aug-16

Form 3: Characteristic Accountability, Verification and Compatibility Evaluation

10	SCD HET-A-02X MATERIALS	MAJOR	662116-000 INSULATION SLEEVE: Heat-shrinkable, transparent blue, radiation cross-linked modified polyvinylidene fluoride.	CONFORM	C of C LOTE: 202003105	N/A	N/A
11	SCD HET-A-02X MATERIALS	MAJOR	803059-000 FERRULE: Copper alloy with a suitable plating (see below for plating information).	CONFORM	C of C LOTE: 0223695379	N/A	N/A
12	SCD HET-A-02X MATERIALS	MAJOR	514715-000 SOLDERSHIELD DEVICE: - Heat-shrinkable insulation sleeve, transparent blue, radiation cross-linked modified polyvinylidene fluoride. - Copper braid pre-tinned with Sn96Ag4 solder alloy with activated rosin flux. - Solder Preform: Sn96Ag4 solder alloy, with activated rosin flux.	CONFORM	C of C LOTE: 0224340962/ 0224340963	N/A	N/A
13	SCD HET-A-02X APPLICATION	MINOR	These parts are used on TE Connectivity /Raychem Hexashield adaptors..	INFO ONLY	N/A	N/A	N/A
14	SCD HET-A-02X APPLICATION	MINOR	Cable Type: Single or multi-conductors shielded cable: Raychem Spec 44 or Spec 55, single braid. (tin, silver or nickel-plated copper braid)	INFO ONLY	N/A	N/A	N/A
15	SCD HET-A-02X APPLICATION	MINOR	Temperature range: -65°C to +175°C.	INFO ONLY	N/A	N/A	N/A
16	SCD HET-A-02X APPLICATION	MINOR	For all other application, contact TE Connectivity /Raychem technical service.	INFO ONLY	N/A	N/A	N/A
17	SCD HET-A-02X Cable Dimensions	MINOR	Ø A 3.10mm (0.122") min 6.90mm (0.270") max	INFO ONLY	N/A	N/A	N/A
18	SCD HET-A-02X Cable Dimensions	MINOR	Ø B 2.40mm (0.095") min 5.30mm (0.210") max	INFO ONLY	N/A	N/A	N/A

Based on AS/EN/SJAC 9102 Rev. B


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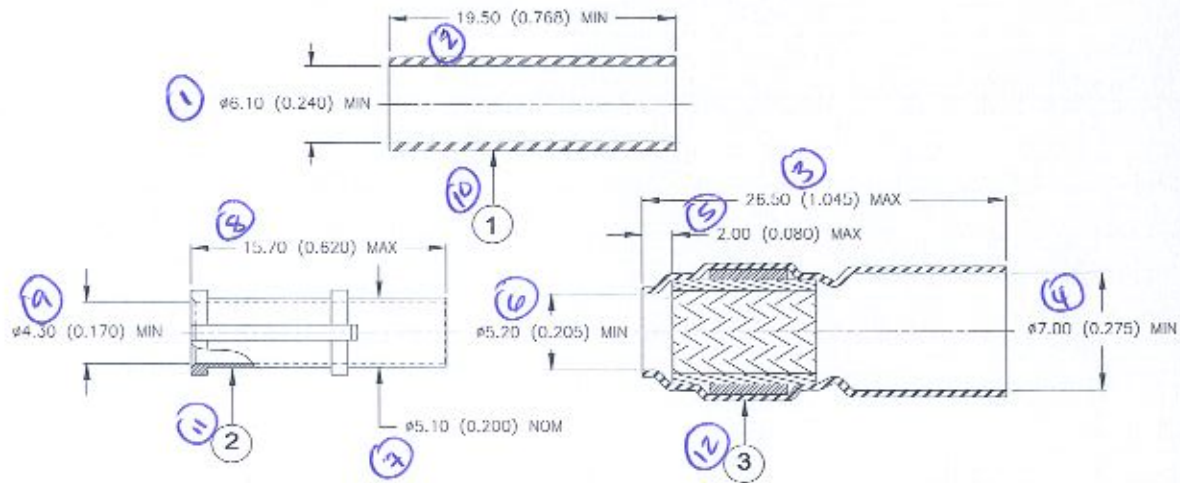
First Article Inspection

TMX-800-4012
Revision: B
29-Aug-16

Form 3: Characteristic Accountability, Verification and Compatibility Evaluation

19	SCD HET-A-02X Cable Dimensions	MINOR	Ø C 4.20mm (0.165") max	INFO ONLY	N/A	N/A	N/A	
20	SCD HET-A-02X	MINOR	PART NUMBERING HET-A-02X Ferrule Plating: B: Olive drab cadmium in accordance with SAE-AMS-QQ-P-416, over a suitable underplate to withstand 500 hours of salt spray test C: Electroless nickel conforming to SAE- AMS-C-26074 Class 3, Grade B.	INFO ONLY	N/A	N/A	N/A	
21	SCD HET-A-02X INSTALLATION	MINOR	See TE Connectivity /Raychem Installation procedure RPIP-696-00.	INFO ONLY	N/A	N/A	N/A	
12. Signature							13. Date	
Liliana Catalan <i>Liliana Catalan</i> 							12/14/2021	

SPECIFICATION CONTROL DRAWING



MATERIALS

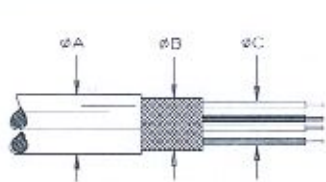
1. INSULATION SLEEVE: Heat-shrinkable, transparent blue, radiation cross-linked modified polyvinylidene fluoride.
2. FERRULE: Copper alloy with a suitable plating (see below for plating information).
3. SOLDERSHIELD DEVICE:
 - Heat-shrinkable insulation sleeve, transparent blue, radiation cross-linked modified polyvinylidene fluoride.
 - Copper braid pre-tinned with Sn96Ag4 solder alloy with activated rosin flux.
 - Solder Preform: Sn96Ag4 solder alloy, with activated rosin flux.

APPLICATION

1. These parts are used on TE Connectivity /Raychem Hexashield adaptors.
2. Cable Type: Single or multi-conductors shielded cable: Raychem Spec 44 or Spec 55, single braid. (tin, silver or nickel-plated copper braid)
3. Temperature range: -65°C to +175°C.
4. For all other application, contact TE Connectivity /Raychem technical service.

Cable dimensions:

Maximum quantity of braids: 4



Cable Dimensions				
ϕA		ϕB		ϕC
Min.	Max.	Min.	Max.	Max.
3.10 (0.122)	6.90 (0.270)	2.40 (0.095)	5.30 (0.210)	4.20 (0.165)

PART NUMBERING

HET-A-02X

Ferrule Plating:

- B: Olive drab cadmium in accordance with SAE-AMS-QQ-P-416, over a suitable underplate to withstand 500 hours of salt spray test
- C: Electroless nickel conforming to SAE-AMS-C-26074 Class 3, Grade B.

INSTALLATION

See TE Connectivity /Raychem installation procedure RPIP-696-00.

		TE Connectivity 300 Constitution Drive, Menlo Park, CA. 94025, U.S.A.		TITLE: FERRULE AND SOLDERSHIELD DEVICE FOR HEXASHIELD ADAPTORS			
Unless otherwise specified dimensions are in millimeters. [Inches dimensions are shown in brackets]				DOCUMENT NO.: HET-A-02X			
TOLERANCES: 0.00 N/A 0.0 N/A 0 N/A	ANGLES: N/A ROUGHNESS IN MICRON	TE Connectivity reserves the right to amend this drawing at any time. Users should evaluate the suitability of the product for their application.		REV.: A1	DATE: 16-Apr-11	APPROVED: MPIOZET	
PREPARED BY: mforonda	DCR NUMBER: D060000	REPLACES: D050290	CAGE CODE: 06090	SCALE: ---	SIZE: A	SHEET: 1 of 1	

Print Date: 9-May-11

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Tijuana, B.C, Mexico CP, 22424
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Certificate of Conformance

Page: 1

Date/Fecha
12.15.2021
Purchase order item
N / A
Delivery item
N / A
Order item
N / A
Customer Number / Numero del Cliente
N / A
Customer Specification / Rev. Especificaciones del Cliente
N / A

Except for any exceptions, reservations, or exemptions, listed on this document, the listed supplies conform to the applicable TE Connectivity Specification. Representative inspection and/or test data is on file and available for review.

Our material number Our material description Numero de Parte del Cliente	Batch# Lote	Mfg Date Fecha De Mfg	Quantity TamañoLote
514715-000 B-070-12-08-01	0224340962	09/24/2021	500 PC

Ruben Ortega
Quality Assurance Representative
Tijuana Operations



Tijuana Operations Plant
Av. Produccion No. 20, Parque Ind Int Tijuana
Tijuana, B.C. Mexico CP. 22424
Tel: +52 (664) 647-4500 Fax: +52 (664) 647-4550

Certificate of Conformance

Page: 1

Date/Fecha
12.15.2021
Purchase order item
N / A
Delivery item
N / A
Order item
N / A
Customer Number / Numero del Cliente
N / A
Customer Specification / Rev. Especificaciones del Cliente
N / A

Except for any exceptions, reservations, or exemptions, listed on this document, the listed supplies conform to the applicable TE Connectivity Specification. Representative inspection and/or test data is on file and available for review.

Our material number Our material description Numero de Parte del Cliente	Batch# Lote	Mfg Date Fecha De Mfg	Quantity Tamaño Lote
514715-000 B-070-12-08-01	0224340963	10/08/2021	1.500 PC

Ruben Ortega
Quality Assurance Representative
Tijuana Operations



Tijuana Operations Plant
Av. Produccion No. 20, Parque Ind Int Tijuana
Tijuana, B.C. Mexico CP. 22424
Tel: +52 (664) 647-4500 Fax: +52 (664) 647-4550

Certificate of Conformance

Page: 1

Date/Fecha
12.15.2021
Purchase order item
N / A
Delivery item
N / A
Order item
N / A
Customer Number / Numero del Cliente
N / A
Customer Specification / Rev. Especificaciones del Cliente
N / A

Except for any exceptions, reservations, or exemptions, listed on this document, the listed supplies conform to the applicable TE Connectivity Specification. Representative inspection and/or test data is on file and available for review.

Our material number Our material description Numero de Parte del Cliente	Batch# Lote	Mfg Date Fecha De Mfg	Quantity TamañoLote
080521-000 D-098-01-33-14	0223555398	04/28/2021	18.000 PC

Ruben Ortega
Quality Assurance Representative
Tijuana Operations



Tijuana Operations Plant
Av. Produccion No. 20, Parque Ind Int Tijuana
Tijuana, B.C. Mexico CP. 22424
Tel: +52 (664) 647-4500 Fax: +52 (664) 647-4550

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Page: 1

Date/Fecha
12.15.2021
Purchase order item
N / A
Delivery item
N / A
Order Item
N / A
Customer Number / Numero del Cliente
N / A
Customer Specification / Rev. Especificaciones del Cliente
N / A

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Our material number Our material description Numero de Parte del Cliente	Batch# Lote	Mfg Date Fecha De Mfg	Quantity TamañoLote
080521-000 D-098-01-33-14	0224372686	09/16/2021	232 PC

Ruben Ortega
Quality Assurance Representative
Tijuana Operations



TE Connectivity Corporation
 44901 Industrial Road
 Fremont, CA. 94538
 Tel: (510) 226-3830 Fax: (510) 226-3839

TE Connectivity
 c/o DHL Global Forwarding
 6800 Gateway Park Dr
 San Diego CA 92154

Certificate of Conformance

Page: 1

Date
 02/15/2021
 Purchase order item
 2714495440/1
 Delivery item
 6063829255/1
 Order item
 3068771537/1
 Customer Number
 1327726
 Customer Specification / Rev.

Except for any exceptions, reservations, or exemptions, listed on this document, the listed supplies conform to the applicable TE Connectivity Specification. Representative inspection and/or test data is on file and available for review.

Our material description Your Material Reference	Batch#	Mat Rev	Mfg Date	Quantity
652365-000 D-098-01-33-10	201970068	V	03/2020	1,400 PC

MFG Loc: TE Connectivity Tubing Plant 501 Oakside Ave.Redwood City CA 94063-3800
Cage Code: _____

Michael V. Annino

Michael V. Annino
 Quality & Reliability Engineering Manager
 TE Connectivity - US



Tijuana Operations Plant
Av, Produccion No. 20, Parque Ind Int Tijuana
Tijuana, B.C, Mexico CP. 22424
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Page: 1

Date/Fecha
12.15.2021
Purchase order item
N / A
Delivery item
N / A
Order item
N / A
Customer Number / Numero del Cliente
N / A
Customer Specification / Rev. Especificaciones del Cliente
N / A

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Our material number Our material description Numero de Parte del Cliente	Batch# Lote	Mfg Date Fecha De Mfg	Quantity TamañoLote
CC2375-000 D-094-98-12-TJ	0224047948	07/19/2021	2,815 KFT

Ruben Ortega
Quality Assurance Representative
Tijuana Operations



Tijuana Operations Plant
Av. Produccion No. 20, Parque Ind Int Tijuana
Tijuana, B.C. Mexico CP. 22424
Tel: +52 (664) 647-4500 Fax: +52 (664) 647-4550

Certificate of Conformance

Page: 1

Date/Fecha
12.15.2021
Purchase order item
N / A
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N / A
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N / A
Customer Number / Numero del Cliente
N / A
Customer Specification / Rev. Especificaciones del Cliente
N / A

Except for any exceptions, reservations, or exemptions, listed on this document, the listed supplies conform to the applicable TE Connectivity Specification. Representative inspection and/or test data is on file and available for review.

Our material number Our material description Numero de Parte del Cliente	Batch# Lote	Mfg Date Fecha De Mfg	Quantity TamañoLote
CC2375-000 D-094-98-12-TJ	0224717629	11/09/2021	3 KFT

Ruben Ortega
Quality Assurance Representative
Tijuana Operations



Indium Corporation of America

Electronic Chemicals Division

34 Robinson Rd, Clinton, NY 13323 USA

- Certificate of Analysis and Conformance for Solder Products -

ORDER REFERENCE

Order: SN79259
Job Number: J344391

P/N: EP5360-000

PO: 2714907145

PRODUCT CERTIFICATION

Product: 96SN 4AG 1.5+/-0.5% CW209 FLUX CORE
Indium P/N: 125130

Lot Number: FC11609

Date: 18-Mar-21

Alloy Integrity		Impurities:	
Reported by:	MZ	<0.0005% Al	<0.0005% Zn
Test Method(s):	ICP	0.0039% As	
		<0.0005% Au	
Major Elements:		0.0028% Bi	
	Ag 3.98 %	<0.0005% Cd	
	Sn 96.02 %	<0.0005% Cr	
		0.0099% Cu	
		0.0064% Fe	
		<0.001% Hg	
		0.0034% In	
		0.0008% Ni	
		0.0211% Pb	
		0.0035% Sb	
		Total: 0.0516% (516. PPM)	>99.9% Pure

RoHS Compliance:			<i>Indium certifies that this product meets RoHS requirements if Pb or Cd is not part of the alloy constituency. Additionally, any product that is <99.9% pure is not certified to be RoHS compliant. Review RoHS directive for any applicable exemptions.</i>
	Actual	RoHS Max.	
Pb	0.0211%	0.1000%	
Cd	<0.0005%	0.0100%	
Total Cr	<0.0005%	0.1000%	
Hg	<0.001%	0.1000%	

J-STD 004B Flux Type: ROM1	This product is in compliance with TE Connectivity Specification PS-D099 Rev N. The Flux Coating on this solder alloy preform product complies with TEC 138-702.
----------------------------	--

Comments

QTY: 18,750 Gm, B/N: 2101388

CONFORMANCE STATEMENT

The Indium Corporation of America certifies that all product manufactured for this order has been made in accordance with its standard procedures and practices including requirements defined on the purchase order and in other customer specific requirements documents. Test reports to substantiate the same are retained in Indium Corporation files and are available to view at a mutually agreed upon time. We also certify that the goods are of USA origin, unless otherwise stated. If goods contain foreign materials, such materials have undergone substantial transformation in the USA.

Travis L. Metale
Quality Technician II

APPROVING OFFICER

Karen Eisenberger
Karen Eisenberger
Quality Technician II

Certification Date: 18-Mar-21 02:18 PM



Contact our engineers: askus@indium.com

Learn more: www.indium.com

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Tijuana, B.C. Mexico CP. 22424
Tel: +52 (664) 647-4500 Fax: +52 (664) 647-4550

Certificate of Conformance

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Date/Fecha
12.15.2021
Purchase order item
N / A
Delivery item
N / A
Order item
N / A
Customer Number / Numero del Cliente
N / A
Customer Specification / Rev. Especificaciones del Cliente
N / A

Except for any exceptions, reservations, or exemptions, listed on this document, the listed supplies conform to the applicable TE Connectivity Specification. Representative inspection and/or test data is on file and available for review.

Our material number Our material description Numero de Parte del Cliente	Batch# Lote	Mfg Date Fecha De Mfg	Quantity TamañoLote
803059-000 HET-01-1	0223695379	07/21/2021	8.967 PC

Ruben Ortega
Quality Assurance Representative
Tijuana Operations



TE Connectivity Corporation
 44901 Industrial Road
 Fremont, CA. 94538
 Tel: (510) 226-3830 Fax: (510) 226-3839

TE Connectivity
 c/o DHL Global Forwarding
 6800 Gateway Park Dr
 San Diego CA 92154

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Date
 04/09/2021
 Purchase order item
 2714908204/1
 Delivery item
 6065560993/1
 Order item
 3069285331/1
 Customer Number
 1327726
 Customer Specification / Rev.

Except for any exceptions, reservations, or exemptions, listed on this document, the listed supplies conform to the applicable TE Connectivity Specification. Representative inspection and/or test data is on file and available for review.

Our material description Your Material Reference	Batch#	Mat Rev	Mfg Date	Quantity
662116-000 D-098-03-16-10	202003105	V	01/2021	40,000 PC

MFG Loc: TE Connectivity Tubing Plant, 501 Oakside Ave., Redwood City, CA 94063-3800
Cage Code: _____

Michael V. Annino
 Quality & Reliability Engineering Manager
 TE Connectivity - US