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### *PPAP Package for:*

**Customer Name: Newark Electronics  
Customer Part Number: 28W3486  
(TE Connectivity Part Number): 1670144-1  
Date: August 2020**

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## **Nondisclosure Agreement**

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

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



# Section 1

# Design Records





## **Section 2**

# **Engineering Change Documents**



# Product Change Notification

Current Date: 26-Feb-2020

## TE Connectivity

Product Change Notification: P-20-018730

PCN Date: 25-FEB-20

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

### General Product Description:

Multiple Part numbers. Phase 4. Americas Footprint Optimization

### Description of Changes

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

### Reason for Changes:

Product improvement. These changes are part of an overall effort from TE to improve our supply chain toward our customers, to focus each plant on core products and processes, and to provide an overall better experience from TE to our customer base. An internal release test based on the relevant part will be executed before delivery and this notification serves to fulfill our notification requirements as prescribed by AIAG 4th edition. This change notification document accompanies a letter sent to your organization on September 13, 2019 signed by our Vice President of Sales and Marketing. Follow up conversations can occur upon request with your sales contact within 15 calendar days after receipt of this PCN. If you have any questions or needs from this move, please contact your sales engineer within 15 days of receipt of this letter. If no response is received on this period, TE will consider this as an approval and tools must move to the new locations.

### Estimated Dates:

<b>Last Order Date</b> (Obsolete Parts Only):	<b>First Date To Ship</b> (Changed Parts Only):
	30-SEP-2020
<b>Last Ship Date</b> (Obsolete Parts Only):	<b>Last Date for Mixed Shipments:</b> (Changed Parts Only):
	No Mixed Shipments

### Part Number(s) being Modified:

Part Number	Part Discontinued per PCN	Customer Drawing	Alias Part Number(s)	Substitute Part Number	Substitute Alias Part Number(s)	Description Of Difference
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<a href="#">1-1326031-2</a>	NO					
<a href="#">1-1326032-0</a>	NO					
<a href="#">1-1326032-1</a>	NO					
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<a href="#">1-1419158-6</a>	NO					
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<a href="#">1-1438299-0</a>	NO					
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<a href="#">1-1456574-1</a>	NO					
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<a href="#">1-1456841-3</a>	NO					
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Part Number	Part Discontinued per PCN	Customer Drawing	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	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	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	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	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	Alias Part Number(s)	Substitute Part Number	Substitute Alias Part Number(s)	Description Of Difference
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<a href="#">1732630-2</a>	NO					
<a href="#">1732649-5</a>	NO					
<a href="#">1732725-1</a>	NO					
<a href="#">1732753-2</a>	NO					
<a href="#">1732766-1</a>	NO					
<a href="#">1732766-2</a>	NO					
<a href="#">1732911-1</a>	NO					
<a href="#">1732911-2</a>	NO					
<a href="#">1732959-1</a>	NO					
<a href="#">1732960-1</a>	NO					
<a href="#">1732992-3</a>	NO					
<a href="#">173631-1</a>	NO					
<a href="#">173681-1</a>	NO					
<a href="#">173682-1</a>	NO		"0-0173682-1"			
<a href="#">173858-1</a>	NO					
<a href="#">173860-1</a>	NO					
<a href="#">173862-1</a>	NO					
<a href="#">173864-1</a>	NO					
<a href="#">174051-2</a>	NO					
<a href="#">174051-4</a>	NO					
<a href="#">174055-2</a>	NO					
<a href="#">174912-2</a>	NO					
<a href="#">174971-2</a>	NO					
<a href="#">174975-2</a>	NO					
<a href="#">174979-2</a>	NO					
<a href="#">175180-1</a>	NO					
<a href="#">175265-1</a>	NO					
<a href="#">175269-1</a>	NO		"0-0175269-1"			
<a href="#">175269-2</a>	NO					
<a href="#">175448-6</a>	NO					
<a href="#">175506-2</a>	NO					
<a href="#">175521-6</a>	NO					
<a href="#">175571-2</a>	NO					
<a href="#">175571-6</a>	NO					
<a href="#">175615-2</a>	NO					
<a href="#">175973-2</a>	NO					
<a href="#">175974-2</a>	NO					
<a href="#">175975-2</a>	NO					
<a href="#">179686-6</a>	NO					
<a href="#">1832173-3</a>	NO					
<a href="#">1832180-3</a>	NO					
<a href="#">1832181-4</a>	NO					
<a href="#">1832379-1</a>	NO					
<a href="#">1832379-2</a>	NO					
<a href="#">1832379-3</a>	NO					
<a href="#">1832379-4</a>	NO					

Part Number	Part Discontinued per PCN	Customer Drawing	Alias Part Number(s)	Substitute Part Number	Substitute Alias Part Number(s)	Description Of Difference
<a href="#">1832379-5</a>	NO					
<a href="#">1832382-3</a>	NO					
<a href="#">1832489-1</a>	NO					
<a href="#">1832712-3</a>	NO					
<a href="#">1832915-5</a>	NO					
<a href="#">1832926-6</a>	NO					
<a href="#">184095-1</a>	NO		"8202606755"			
<a href="#">184095-2</a>	NO		"EM3605-000", "AMP-0-0184095-2"			
<a href="#">184373-1</a>	NO					
<a href="#">184373-2</a>	NO					
<a href="#">1924229-1</a>	NO					
<a href="#">1924229-2</a>	NO					
<a href="#">1924229-3</a>	NO					
<a href="#">1924230-1</a>	NO					
<a href="#">1924237-2</a>	NO					
<a href="#">1924241-1</a>	NO					
<a href="#">1924275-1</a>	NO					
<a href="#">1924275-2</a>	NO					
<a href="#">1924275-3</a>	NO					
<a href="#">1924275-4</a>	NO					
<a href="#">1924275-5</a>	NO					
<a href="#">1924275-6</a>	NO					
<a href="#">1924275-7</a>	NO					
<a href="#">1924275-8</a>	NO					
<a href="#">1924464-1</a>	NO		"EG9742-000", "AMP-0-1924464-1"			
<a href="#">1924464-2</a>	NO					
<a href="#">1924579-1</a>	NO					
<a href="#">1924579-3</a>	NO					
<a href="#">1924580-1</a>	NO					
<a href="#">1924580-2</a>	NO					
<a href="#">1924674-9</a>	NO					
<a href="#">1924675-1</a>	NO					
<a href="#">1924675-4</a>	NO					
<a href="#">1924678-1</a>	NO					
<a href="#">1924678-3</a>	NO					
<a href="#">1924683-1</a>	NO					
<a href="#">1924684-1</a>	NO					
<a href="#">1924685-1</a>	NO					
<a href="#">1924689-1</a>	NO					
<a href="#">1924727-1</a>	NO					
<a href="#">1924727-2</a>	NO					
<a href="#">1924727-3</a>	NO					
<a href="#">1924727-4</a>	NO					
<a href="#">1924782-1</a>	NO					
<a href="#">1924782-2</a>	NO					
<a href="#">1924782-3</a>	NO					
<a href="#">1924879-1</a>	NO					
<a href="#">1924879-2</a>	NO					
<a href="#">1924880-1</a>	NO					
<a href="#">1924887-1</a>	NO					
<a href="#">1924955-1</a>	NO					
<a href="#">1924955-2</a>	NO					
<a href="#">1924955-3</a>	NO					
<a href="#">1924955-4</a>	NO					
<a href="#">1924955-5</a>	NO					
<a href="#">1924955-6</a>	NO					
<a href="#">1924955-7</a>	NO					
<a href="#">1924955-8</a>	NO					
<a href="#">1924968-1</a>	NO					
<a href="#">1924968-2</a>	NO					
<a href="#">1924968-3</a>	NO					
<a href="#">1924968-4</a>	NO					
<a href="#">1924968-5</a>	NO					
<a href="#">1924968-6</a>	NO					
<a href="#">1924968-7</a>	NO					

Part Number	Part Discontinued per PCN	Customer Drawing	Alias Part Number(s)	Substitute Part Number	Substitute Alias Part Number(s)	Description Of Difference
<a href="#">1924968-8</a>	NO					
<a href="#">2-1393366-2</a>	NO					
<a href="#">2-1393367-2</a>	NO					
<a href="#">2-1419158-3</a>	NO					
<a href="#">2-1419158-5</a>	NO					
<a href="#">2-1437856-0</a>	NO		"107462A"			
<a href="#">2-1438640-1</a>	NO					
<a href="#">2-1438640-2</a>	NO					
<a href="#">2-1438640-3</a>	NO					
<a href="#">2-1438640-4</a>	NO					
<a href="#">2-184464-2</a>	NO					
<a href="#">2-1924675-1</a>	NO					
<a href="#">2-1924675-2</a>	NO					
<a href="#">2-2203830-2</a>	NO					
<a href="#">2-638611-6</a>	NO					
<a href="#">2-638623-1</a>	NO					
<a href="#">2-963964-4</a>	NO					
<a href="#">2035124-1</a>	NO					
<a href="#">2035170-1</a>	NO					
<a href="#">2035170-2</a>	NO					
<a href="#">2035170-3</a>	NO					
<a href="#">2035170-4</a>	NO					
<a href="#">2035170-5</a>	NO					
<a href="#">2035170-8</a>	NO					
<a href="#">2035334-1</a>	NO					
<a href="#">2035334-2</a>	NO					
<a href="#">2035334-3</a>	NO					
<a href="#">2035334-4</a>	NO					
<a href="#">2035334-5</a>	NO					
<a href="#">2035334-6</a>	NO					
<a href="#">2035334-7</a>	NO					
<a href="#">2035334-8</a>	NO					
<a href="#">2035448-1</a>	NO					
<a href="#">2035448-2</a>	NO					
<a href="#">2035448-3</a>	NO					
<a href="#">2035448-5</a>	NO					
<a href="#">2035448-6</a>	NO					
<a href="#">2035448-7</a>	NO					
<a href="#">2098165-1</a>	NO					
<a href="#">2098250-1</a>	NO					
<a href="#">2098250-3</a>	NO					
<a href="#">2098253-1</a>	NO					
<a href="#">2098253-2</a>	NO					
<a href="#">2098583-2</a>	NO					
<a href="#">2098583-4</a>	NO					
<a href="#">2098753-1</a>	NO					
<a href="#">2098753-2</a>	NO					
<a href="#">2098753-3</a>	NO					
<a href="#">2098753-4</a>	NO					
<a href="#">2098753-6</a>	NO					
<a href="#">2098753-7</a>	NO					
<a href="#">2098753-8</a>	NO					
<a href="#">2098835-1</a>	NO					
<a href="#">2103119-2</a>	NO					
<a href="#">2103183-1</a>	NO					
<a href="#">2103353-1</a>	NO					
<a href="#">2103742-2</a>	NO					
<a href="#">2103742-3</a>	NO					
<a href="#">2103743-2</a>	NO					
<a href="#">2103743-3</a>	NO					
<a href="#">212862-1</a>	NO					
<a href="#">212862-2</a>	NO					
<a href="#">213087-1</a>	NO					
<a href="#">2137021-1</a>	NO					
<a href="#">2137021-2</a>	NO					

Part Number	Part Discontinued per PCN	Customer Drawing	Alias Part Number(s)	Substitute Part Number	Substitute Alias Part Number(s)	Description Of Difference
<a href="#">2137021-3</a>	NO					
<a href="#">2137021-4</a>	NO					
<a href="#">2137021-5</a>	NO					
<a href="#">2137021-6</a>	NO					
<a href="#">2137021-7</a>	NO					
<a href="#">2137021-8</a>	NO					
<a href="#">2137022-1</a>	NO					
<a href="#">2137022-2</a>	NO					
<a href="#">2137023-1</a>	NO					
<a href="#">2137023-2</a>	NO					
<a href="#">2138089-1</a>	NO					
<a href="#">2138161-1</a>	NO					
<a href="#">2138161-2</a>	NO					
<a href="#">2138161-3</a>	NO					
<a href="#">2138177-1</a>	NO					
<a href="#">2138260-1</a>	NO					
<a href="#">2138519-2</a>	NO					
<a href="#">2138519-4</a>	NO					
<a href="#">2138525-1</a>	NO					
<a href="#">2138604-1</a>	NO					
<a href="#">2138699-1</a>	NO					
<a href="#">2138699-2</a>	NO					
<a href="#">2138699-3</a>	NO					
<a href="#">2138699-4</a>	NO					
<a href="#">2141970-1</a>	NO					
<a href="#">2141970-3</a>	NO					
<a href="#">2174100-2</a>	NO					
<a href="#">2203232-2</a>	NO					
<a href="#">2203232-6</a>	NO					
<a href="#">2203242-1</a>	NO					
<a href="#">2203242-2</a>	NO					
<a href="#">2203259-2</a>	NO					
<a href="#">2203259-3</a>	NO					
<a href="#">2203260-4</a>	NO					
<a href="#">2203260-8</a>	NO					
<a href="#">2203270-4</a>	NO					
<a href="#">2203270-6</a>	NO					
<a href="#">2203270-8</a>	NO					
<a href="#">2229486-2</a>	NO					
<a href="#">2237207-1</a>	NO					
<a href="#">2237207-2</a>	NO					
<a href="#">2247078-1</a>	NO					
<a href="#">2247092-1</a>	NO					
<a href="#">2247219-1</a>	NO					
<a href="#">2247220-1</a>	NO					
<a href="#">2247397-1</a>	NO					
<a href="#">2247694-1</a>	NO					
<a href="#">2272033-1</a>	NO					
<a href="#">2272406-1</a>	NO					
<a href="#">2272406-2</a>	NO					
<a href="#">2272434-1</a>	NO					
<a href="#">2288241-1</a>	NO					
<a href="#">2288242-1</a>	NO					
<a href="#">2288244-1</a>	NO					
<a href="#">2288244-2</a>	NO					
<a href="#">2292790-1</a>	NO					
<a href="#">2294285-1</a>	NO					
<a href="#">2294285-2</a>	NO					
<a href="#">2294374-1</a>	NO					
<a href="#">2294374-2</a>	NO					
<a href="#">2296721-1</a>	NO					
<a href="#">2297066-1</a>	NO					
<a href="#">2302174-1</a>	NO					
<a href="#">2302174-3</a>	NO					
<a href="#">2303546-1</a>	NO					

Part Number	Part Discontinued per PCN	Customer Drawing	Alias Part Number(s)	Substitute Part Number	Substitute Alias Part Number(s)	Description Of Difference
<a href="#">2304852-2</a>	NO					
<a href="#">2304852-3</a>	NO					
<a href="#">2304852-4</a>	NO					
<a href="#">2304852-5</a>	NO					
<a href="#">2305342-5</a>	NO					
<a href="#">2306271-1</a>	NO					
<a href="#">2306762-1</a>	NO					
<a href="#">2307223-1</a>	NO					
<a href="#">2307235-1</a>	NO					
<a href="#">2307265-2</a>	NO					
<a href="#">2307265-3</a>	NO					
<a href="#">2307265-4</a>	NO					
<a href="#">2307412-1</a>	NO					
<a href="#">2307438-1</a>	NO					
<a href="#">2307452-1</a>	NO					
<a href="#">2307452-2</a>	NO					
<a href="#">2307452-3</a>	NO					
<a href="#">2307452-4</a>	NO					
<a href="#">2307467-1</a>	NO					
<a href="#">2307467-2</a>	NO					
<a href="#">2307467-3</a>	NO					
<a href="#">2307656-1</a>	NO					
<a href="#">2307656-2</a>	NO					
<a href="#">2309248-1</a>	NO					
<a href="#">2309269-1</a>	NO					
<a href="#">2309271-1</a>	NO					
<a href="#">2309275-1</a>	NO					
<a href="#">2309487-1</a>	NO					
<a href="#">2309489-1</a>	NO					
<a href="#">2309489-2</a>	NO					
<a href="#">2309490-1</a>	NO					
<a href="#">2309490-2</a>	NO					
<a href="#">2309491-1</a>	NO					
<a href="#">2309491-2</a>	NO					
<a href="#">2309720-2</a>	NO					
<a href="#">2309720-3</a>	NO					
<a href="#">2310207-1</a>	NO					
<a href="#">2310239-1</a>	NO					
<a href="#">2310242-1</a>	NO					
<a href="#">2310242-2</a>	NO					
<a href="#">2310293-1</a>	NO					
<a href="#">2311562-1</a>	NO					
<a href="#">2311562-2</a>	NO					
<a href="#">2311565-1</a>	NO					
<a href="#">2311566-1</a>	NO					
<a href="#">2312100-1</a>	NO					
<a href="#">2312100-2</a>	NO					
<a href="#">2312100-3</a>	NO					
<a href="#">2312100-4</a>	NO					
<a href="#">2312100-6</a>	NO					
<a href="#">2312102-1</a>	NO					
<a href="#">2312102-3</a>	NO					
<a href="#">2312102-4</a>	NO					
<a href="#">2312105-1</a>	NO					
<a href="#">2312164-1</a>	NO					
<a href="#">2312453-5</a>	NO					
<a href="#">2312454-4</a>	NO					
<a href="#">2312458-5</a>	NO					
<a href="#">2312459-5</a>	NO					
<a href="#">2312460-6</a>	NO					
<a href="#">2312464-3</a>	NO					
<a href="#">2312465-5</a>	NO					
<a href="#">2312466-2</a>	NO					
<a href="#">2312469-3</a>	NO					
<a href="#">2312475-4</a>	NO					



Part Number	Part Discontinued per PCN	Customer Drawing	Alias Part Number(s)	Substitute Part Number	Substitute Alias Part Number(s)	Description Of Difference
<a href="#">2312476-3</a>	NO					
<a href="#">2312477-2</a>	NO					
<a href="#">2312480-6</a>	NO					
<a href="#">2312481-6</a>	NO					
<a href="#">2312482-2</a>	NO					
<a href="#">2312648-1</a>	NO					
<a href="#">2314208-1</a>	NO					
<a href="#">2314244-1</a>	NO					
<a href="#">2314244-2</a>	NO					
<a href="#">2314245-1</a>	NO					
<a href="#">2314245-2</a>	NO					
<a href="#">2314248-1</a>	NO					
<a href="#">2314566-4</a>	NO					
<a href="#">2314566-5</a>	NO					
<a href="#">2315264-1</a>	NO					
<a href="#">2315264-2</a>	NO					
<a href="#">2315265-1</a>	NO					
<a href="#">2315265-2</a>	NO					
<a href="#">2316001-2</a>	NO					
<a href="#">2316512-1</a>	NO					
<a href="#">2316555-1</a>	NO					
<a href="#">2316765-3</a>	NO					
<a href="#">2316999-1</a>	NO					
<a href="#">2316999-2</a>	NO					
<a href="#">2317356-1</a>	NO					
<a href="#">2317356-2</a>	NO					
<a href="#">2317367-1</a>	NO					
<a href="#">2317367-2</a>	NO					
<a href="#">2317944-2</a>	NO					
<a href="#">2317944-3</a>	NO					
<a href="#">2317944-4</a>	NO					
<a href="#">2318040-1</a>	NO					
<a href="#">2318225-1</a>	NO					
<a href="#">2318725-1</a>	NO					
<a href="#">2318732-3</a>	NO					
<a href="#">2319104-3</a>	NO					
<a href="#">2319104-4</a>	NO					
<a href="#">2320454-2</a>	NO					
<a href="#">2321027-1</a>	NO					
<a href="#">2321028-1</a>	NO					
<a href="#">2321256-1</a>	NO					
<a href="#">2321259-1</a>	NO					
<a href="#">2321262-1</a>	NO					
<a href="#">2321265-2</a>	NO					
<a href="#">2321265-4</a>	NO					
<a href="#">2321266-1</a>	NO					
<a href="#">2321266-2</a>	NO					
<a href="#">2321273-1</a>	NO					
<a href="#">2321392-1</a>	NO					
<a href="#">2321392-2</a>	NO					
<a href="#">2321392-3</a>	NO					
<a href="#">2321393-1</a>	NO					
<a href="#">2321393-2</a>	NO					
<a href="#">2321393-3</a>	NO					
<a href="#">2321396-2</a>	NO					
<a href="#">2321497-1</a>	NO					
<a href="#">2321498-2</a>	NO					
<a href="#">2321501-2</a>	NO					
<a href="#">2321511-3</a>	NO					
<a href="#">2321513-2</a>	NO					
<a href="#">2321697-2</a>	NO					
<a href="#">2321699-2</a>	NO					
<a href="#">2321702-2</a>	NO					
<a href="#">2321703-1</a>	NO					
<a href="#">2321703-2</a>	NO					

Part Number	Part Discontinued per PCN	Customer Drawing	Alias Part Number(s)	Substitute Part Number	Substitute Alias Part Number(s)	Description Of Difference
<a href="#">2321704-3</a>	NO					
<a href="#">2321769-2</a>	NO					
<a href="#">2321769-4</a>	NO					
<a href="#">2321819-3</a>	NO					
<a href="#">2321825-3</a>	NO					
<a href="#">2321844-2</a>	NO					
<a href="#">2321845-3</a>	NO					
<a href="#">2321856-4</a>	NO					
<a href="#">2321857-4</a>	NO					
<a href="#">2321860-2</a>	NO					
<a href="#">2321860-3</a>	NO					
<a href="#">2321862-3</a>	NO					
<a href="#">2321868-2</a>	NO					
<a href="#">2321868-3</a>	NO					
<a href="#">2321869-2</a>	NO					
<a href="#">2321871-1</a>	NO					
<a href="#">2321871-2</a>	NO					
<a href="#">2321875-2</a>	NO					
<a href="#">2322615-1</a>	NO					
<a href="#">2322615-2</a>	NO					
<a href="#">2322616-1</a>	NO					
<a href="#">2322616-2</a>	NO					
<a href="#">2322617-2</a>	NO					
<a href="#">2323660-1</a>	NO					
<a href="#">2323661-1</a>	NO					
<a href="#">2323997-2</a>	NO					
<a href="#">2323997-3</a>	NO					
<a href="#">2324557-2</a>	NO					
<a href="#">2324558-1</a>	NO					
<a href="#">2324559-1</a>	NO					
<a href="#">2324560-1</a>	NO					
<a href="#">2324561-2</a>	NO					
<a href="#">2324627-1</a>	NO					
<a href="#">2324627-2</a>	NO					
<a href="#">2324768-1</a>	NO					
<a href="#">2325176-1</a>	NO					
<a href="#">2325177-1</a>	NO					
<a href="#">2325383-1</a>	NO					
<a href="#">2325425-1</a>	NO					
<a href="#">2325428-1</a>	NO					
<a href="#">2325429-2</a>	NO					
<a href="#">2325430-1</a>	NO					
<a href="#">2325434-1</a>	NO					
<a href="#">2325435-1</a>	NO					
<a href="#">2325436-1</a>	NO					
<a href="#">2325441-2</a>	NO					
<a href="#">2325442-2</a>	NO					
<a href="#">2325446-2</a>	NO					
<a href="#">2325447-1</a>	NO					
<a href="#">2325452-2</a>	NO					
<a href="#">2325453-2</a>	NO					
<a href="#">2325456-1</a>	NO					
<a href="#">2325457-2</a>	NO					
<a href="#">2325613-1</a>	NO					
<a href="#">2325613-2</a>	NO					
<a href="#">2325614-1</a>	NO					
<a href="#">2325614-2</a>	NO					
<a href="#">2325925-1</a>	NO					
<a href="#">2327443-1</a>	NO					
<a href="#">2327904-1</a>	NO					
<a href="#">2327904-2</a>	NO					
<a href="#">2329141-4</a>	NO					
<a href="#">2329155-2</a>	NO					
<a href="#">2329155-3</a>	NO					
<a href="#">2329193-1</a>	NO					

Part Number	Part Discontinued per PCN	Customer Drawing	Alias Part Number(s)	Substitute Part Number	Substitute Alias Part Number(s)	Description Of Difference
<a href="#">2331584-1</a>	NO					
<a href="#">2331584-2</a>	NO					
<a href="#">2331585-1</a>	NO					
<a href="#">2331585-2</a>	NO					
<a href="#">2331586-1</a>	NO					
<a href="#">2331586-2</a>	NO					
<a href="#">2331587-1</a>	NO					
<a href="#">2331587-2</a>	NO					
<a href="#">2332133-1</a>	NO					
<a href="#">2332200-6</a>	NO					
<a href="#">2332200-7</a>	NO					
<a href="#">2333671-1</a>	NO					
<a href="#">2333674-1</a>	NO					
<a href="#">2333675-1</a>	NO					
<a href="#">2334706-1</a>	NO					
<a href="#">2335239-1</a>	NO					
<a href="#">2335903-1</a>	NO					
<a href="#">2337244-1</a>	NO					
<a href="#">2338965-1</a>	NO					
<a href="#">2340018-2</a>	NO					
<a href="#">2340329-1</a>	NO					
<a href="#">2344914-1</a>	NO					
<a href="#">2344915-1</a>	NO					
<a href="#">2344918-1</a>	NO					
<a href="#">2344919-1</a>	NO					
<a href="#">2345511-1</a>	NO					
<a href="#">2345583-2</a>	NO					
<a href="#">2345585-3</a>	NO					
<a href="#">2348242-1</a>	NO					
<a href="#">2348633-1</a>	NO					
<a href="#">2349552-1</a>	NO					
<a href="#">2349574-1</a>	NO					
<a href="#">2350122-1</a>	NO					
<a href="#">2350125-1</a>	NO					
<a href="#">2350129-1</a>	NO					
<a href="#">2350525-1</a>	NO					
<a href="#">2350528-1</a>	NO					
<a href="#">2351439-1</a>	NO					
<a href="#">2351440-1</a>	NO					
<a href="#">2351564-1</a>	NO					
<a href="#">2351708-1</a>	NO					
<a href="#">2351709-1</a>	NO					
<a href="#">2840368-2</a>	NO					
<a href="#">2840838-1</a>	NO					
<a href="#">2840960-1</a>	NO					
<a href="#">2840960-2</a>	NO					
<a href="#">3-1438230-2</a>	NO		"104769A", "E8EB-14474-BF", "E8EB-14474-BFA"			
<a href="#">3-1438230-3</a>	NO		"104770A"			
<a href="#">3-1438230-4</a>	NO		"104767A"			
<a href="#">3-1438230-5</a>	NO		"105926A"			
<a href="#">3-1438231-2</a>	NO		"104657B"			
<a href="#">3-1438231-3</a>	NO					
<a href="#">3-1438245-2</a>	NO		"101902"			
<a href="#">316838-1</a>	NO					
<a href="#">360387-1</a>	NO					
<a href="#">4-1438090-7</a>	NO					
<a href="#">4-1438640-1</a>	NO					
<a href="#">4-1438640-4</a>	NO					
<a href="#">4-1438640-5</a>	NO					
<a href="#">5-1299373-9</a>	NO					
<a href="#">5-1299502-1</a>	NO					
<a href="#">5-1557773-1</a>	NO					
<a href="#">5-1557773-2</a>	NO					
<a href="#">5-1557773-3</a>	NO					

Part Number	Part Discontinued per PCN	Customer Drawing	Alias Part Number(s)	Substitute Part Number	Substitute Alias Part Number(s)	Description Of Difference
<a href="#">5-1557773-5</a>	NO					
<a href="#">5-1557909-1</a>	NO					
<a href="#">5-1557915-1</a>	NO					
<a href="#">5-2237133-1</a>	NO					
<a href="#">5-2237133-2</a>	NO					
<a href="#">5-2237155-1</a>	NO					
<a href="#">5-2237155-2</a>	NO					
<a href="#">5-2304580-1</a>	NO					
<a href="#">5-2311251-1</a>	NO					
<a href="#">5-2311251-5</a>	NO					
<a href="#">5-2311289-1</a>	NO					
<a href="#">5-2311289-2</a>	NO					
<a href="#">5-2311289-3</a>	NO					
<a href="#">5-2312161-1</a>	NO					
<a href="#">5-2312162-1</a>	NO					
<a href="#">5-2317402-1</a>	NO					
<a href="#">5-2317402-2</a>	NO					
<a href="#">5-2317402-4</a>	NO					
<a href="#">5-2317403-1</a>	NO					
<a href="#">5-2317403-2</a>	NO					
<a href="#">5-2324627-1</a>	NO					
<a href="#">5-2324627-2</a>	NO					
<a href="#">5-2324652-1</a>	NO					
<a href="#">5-2324653-1</a>	NO					
<a href="#">5-2325383-1</a>	NO					
<a href="#">5-2325383-2</a>	NO					
<a href="#">5-2325523-2</a>	NO					
<a href="#">5-2325523-3</a>	NO					
<a href="#">5-2339501-2</a>	NO					
<a href="#">5-2339502-1</a>	NO					
<a href="#">5-2344067-2</a>	NO					
<a href="#">6-1438090-7</a>	NO					
<a href="#">638009-1</a>	NO					
<a href="#">638009-5</a>	NO					
<a href="#">638014-1</a>	NO					
<a href="#">638087-1</a>	NO					
<a href="#">638098-1</a>	NO					
<a href="#">638098-7</a>	NO					
<a href="#">638099-1</a>	NO					
<a href="#">638099-7</a>	NO					
<a href="#">638102-1</a>	NO					
<a href="#">638125-3</a>	NO					
<a href="#">638128-2</a>	NO					
<a href="#">638131-2</a>	NO					
<a href="#">638134-3</a>	NO					
<a href="#">638134-4</a>	NO					
<a href="#">638134-5</a>	NO					
<a href="#">638141-1</a>	NO					
<a href="#">638143-1</a>	NO					
<a href="#">638145-1</a>	NO					
<a href="#">638170-6</a>	NO					
<a href="#">638174-1</a>	NO					
<a href="#">638174-2</a>	NO					
<a href="#">638174-3</a>	NO					
<a href="#">638174-4</a>	NO					
<a href="#">638184-6</a>	NO					
<a href="#">638203-1</a>	NO					
<a href="#">638232-1</a>	NO					
<a href="#">638551-1</a>	NO					
<a href="#">638551-2</a>	NO					
<a href="#">638551-3</a>	NO					
<a href="#">638551-4</a>	NO					
<a href="#">638619-1</a>	NO					
<a href="#">638652-1</a>	NO					
<a href="#">638652-2</a>	NO					

Part Number	Part Discontinued per PCN	Customer Drawing	Alias Part Number(s)	Substitute Part Number	Substitute Alias Part Number(s)	Description Of Difference
<a href="#">638652-4</a>	NO					
<a href="#">638662-8</a>	NO					
<a href="#">638946-2</a>	NO					
<a href="#">638977-6</a>	NO					
<a href="#">638979-1</a>	NO					
<a href="#">7-1452665-1</a>	NO					
<a href="#">7-1452665-3</a>	NO					
<a href="#">7-1452671-1</a>	NO					
<a href="#">7-1452671-3</a>	NO					
<a href="#">7-173862-1</a>	NO					
<a href="#">7-173862-6</a>	NO					
<a href="#">770520-1</a>	NO					
<a href="#">770520-3</a>	NO					
<a href="#">770854-1</a>	NO					
<a href="#">770854-3</a>	NO					
<a href="#">773119-4</a>	NO					
<a href="#">776035-5</a>	NO					
<a href="#">776046-4</a>	NO					
<a href="#">776235-1</a>	NO					
<a href="#">776235-4</a>	NO					
<a href="#">776297-1</a>	NO					
<a href="#">776297-2</a>	NO					
<a href="#">776300-1</a>	NO					
<a href="#">776300-2</a>	NO					
<a href="#">776349-1</a>	NO		"820P-37835"			
<a href="#">776349-3</a>	NO		"820P-37462"			
<a href="#">776491-1</a>	NO					
<a href="#">776491-2</a>	NO					
<a href="#">776492-1</a>	NO					
<a href="#">776492-2</a>	NO					
<a href="#">776493-1</a>	NO		"820P-37700"			
<a href="#">776493-2</a>	NO					
<a href="#">776546-1</a>	NO					
<a href="#">776546-5</a>	NO					
<a href="#">776834-3</a>	NO					
<a href="#">776834-4</a>	NO					
<a href="#">776834-5</a>	NO					
<a href="#">776958-1</a>	NO					
<a href="#">9-1438090-6</a>	NO					
<a href="#">9-1438309-1</a>	NO					
<a href="#">9-1438424-2</a>	NO					
<a href="#">9-1438743-6</a>	NO					
<a href="#">9-1438789-2</a>	NO					
<a href="#">9-1438845-1</a>	NO					
<a href="#">9-1456610-2</a>	NO					
<a href="#">9-175976-2</a>	NO					
<a href="#">9-176122-6</a>	NO					
<a href="#">9-1924162-6</a>	NO					
<a href="#">9-1924255-6</a>	NO					
<a href="#">9-2035103-6</a>	NO					
<a href="#">9-2035312-2</a>	NO					
<a href="#">9-638254-2</a>	NO					
<a href="#">9-638258-6</a>	NO					
<a href="#">9-638264-2</a>	NO					
<a href="#">9-638677-1</a>	NO					
<a href="#">9-638699-6</a>	NO					
<a href="#">9-638973-2</a>	NO					
<a href="#">9-776629-6</a>	NO					
<a href="#">9-776633-8</a>	NO					
<a href="#">928999-1</a>	NO		"0-0928999-1", "0-928999-1"			



# Product Change Notification

Current Date: 26-Feb-2020

## TE Connectivity

Product Change Notification: P-20-018731

PCN Date: 25-FEB-20

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

### General Product Description:

Multiple Part numbers. Phase 4. Americas Footprint Optimization

### Description of Changes

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

### Reason for Changes:

Product improvement. These changes are part of an overall effort from TE to improve our supply chain toward our customers, to focus each plant on core products and processes, and to provide an overall better experience from TE to our customer base. An internal release test based on the relevant part will be executed before delivery and this notification serves to fulfill our notification requirements as prescribed by AIAG 4th edition. This change notification document accompanies a letter sent to your organization on September 13, 2019 signed by our Vice President of Sales and Marketing. Follow up conversations can occur upon request with your sales contact within 15 calendar days after receipt of this PCN. If you have any questions or needs from this move, please contact your sales engineer within 15 days of receipt of this letter. If no response is received on this period, TE will consider this as an approval and tools must move to the new locations.

### Estimated Dates:

<b>Last Order Date</b> (Obsolete Parts Only):	<b>First Date To Ship</b> (Changed Parts Only):
	30-SEP-2020
<b>Last Ship Date</b> (Obsolete Parts Only):	<b>Last Date for Mixed Shipments:</b> (Changed Parts Only):
	No Mixed Shipments

### Part Number(s) being Modified:

Part Number	Part Discontinued per PCN	Customer Drawing	Alias Part Number(s)	Substitute Part Number	Substitute Alias Part Number(s)	Description Of Difference
<a href="#">1-1326029-1</a>	NO					
<a href="#">1-1326029-2</a>	NO					
<a href="#">1-1326030-0</a>	NO					
<a href="#">1-1326030-1</a>	NO					
<a href="#">1-1326030-2</a>	NO					
<a href="#">1-1437855-6</a>	NO		"104537A", "4661466"			
<a href="#">1-1438238-0</a>	NO		"108918"			
<a href="#">1-1438238-1</a>	NO		"K36AA-F12LBA"			
<a href="#">1-1438640-3</a>	NO					
<a href="#">1-1438640-8</a>	NO					
<a href="#">1-1456336-3</a>	NO					
<a href="#">1-1456336-4</a>	NO					
<a href="#">1-1456336-6</a>	NO					
<a href="#">1-1456968-1</a>	NO					
<a href="#">1-1456968-2</a>	NO					
<a href="#">1-1456968-3</a>	NO					
<a href="#">1-1456968-4</a>	NO					
<a href="#">1-1456968-6</a>	NO					
<a href="#">1-1456968-8</a>	NO					
<a href="#">1-1563842-1</a>	NO					
<a href="#">1-1563842-3</a>	NO					
<a href="#">1-1924415-1</a>	NO					
<a href="#">1-1924415-2</a>	NO					
<a href="#">1-1924468-1</a>	NO					
<a href="#">1-1924468-3</a>	NO					
<a href="#">1-1924955-1</a>	NO					

Part Number	Part Discontinued per PCN	Customer Drawing	Alias Part Number(s)	Substitute Part Number	Substitute Alias Part Number(s)	Description Of Difference
<a href="#">1-1924955-2</a>	NO					
<a href="#">1-1924955-3</a>	NO					
<a href="#">1-1924955-4</a>	NO					
<a href="#">1-1924955-6</a>	NO					
<a href="#">1-1924955-7</a>	NO					
<a href="#">1-1924955-8</a>	NO					
<a href="#">1-2103171-2</a>	NO					
<a href="#">1-2138699-1</a>	NO					
<a href="#">1-2138699-2</a>	NO					
<a href="#">1-2138699-4</a>	NO					
<a href="#">1-2203270-0</a>	NO					
<a href="#">1-2288241-1</a>	NO					
<a href="#">1-2288242-1</a>	NO					
<a href="#">1-2840750-1</a>	NO					
<a href="#">1-773119-8</a>	NO					
<a href="#">1-776546-1</a>	NO					
<a href="#">1-929278-2</a>	NO					
<a href="#">1326017-1</a>	NO					
<a href="#">1326017-9</a>	NO					
<a href="#">1326028-1</a>	NO					
<a href="#">1326028-2</a>	NO					
<a href="#">1326028-3</a>	NO					
<a href="#">1326028-4</a>	NO					
<a href="#">1326028-5</a>	NO					
<a href="#">1326028-6</a>	NO					
<a href="#">1326030-1</a>	NO					
<a href="#">1326030-2</a>	NO					
<a href="#">1326030-3</a>	NO					
<a href="#">1326030-4</a>	NO					
<a href="#">1326030-5</a>	NO					
<a href="#">1326030-6</a>	NO					
<a href="#">1326030-7</a>	NO					
<a href="#">1326030-8</a>	NO					
<a href="#">1326030-9</a>	NO					
<a href="#">1437284-9</a>	NO		"13002630101"			
<a href="#">1438088-2</a>	NO					
<a href="#">1438234-3</a>	NO		"G38BA-F111BA"			
<a href="#">1438234-6</a>	NO		"102186"			
<a href="#">1438235-2</a>	NO		"103437", "109569"			
<a href="#">1438238-2</a>	NO		"K36AA-K12HBA"			
<a href="#">1438238-6</a>	NO		"K36AA-P12LBA"			
<a href="#">1438238-8</a>	NO		"101793"			
<a href="#">1438238-9</a>	NO		"101794"			
<a href="#">1438240-1</a>	NO		"105825A"			
<a href="#">1438244-2</a>	NO		"N36CA-F174AA"			
<a href="#">1438250-4</a>	NO		"N36AA-P125BA"			
<a href="#">1438250-5</a>	NO		"105084"			
<a href="#">1438255-1</a>	NO		"B65BA-M630A0"			
<a href="#">1438255-2</a>	NO		"B65BA-K630A0"			
<a href="#">1438256-1</a>	NO		"B65AA-W637A0"			
<a href="#">1438256-2</a>	NO		"B65AA-N637A0"			
<a href="#">1438275-1</a>	NO					
<a href="#">1438316-1</a>	NO					
<a href="#">1438387-1</a>	NO					
<a href="#">1438442-4</a>	NO					
<a href="#">1438483-1</a>	NO					
<a href="#">1438486-1</a>	NO					
<a href="#">1438543-1</a>	NO					
<a href="#">1438543-2</a>	NO					
<a href="#">1438543-4</a>	NO					
<a href="#">1438680-1</a>	NO					
<a href="#">1448779-2</a>	NO					
<a href="#">1454333-8</a>	NO		"107411"			
<a href="#">1456004-1</a>	NO					
<a href="#">1456004-2</a>	NO					

Part Number	Part Discontinued per PCN	Customer Drawing	Alias Part Number(s)	Substitute Part Number	Substitute Alias Part Number(s)	Description Of Difference
<a href="#">1456598-1</a>	NO					
<a href="#">1456630-1</a>	NO					
<a href="#">1456630-2</a>	NO					
<a href="#">1456777-3</a>	NO					
<a href="#">1456897-2</a>	NO					
<a href="#">1456897-5</a>	NO					
<a href="#">1456968-1</a>	NO					
<a href="#">1456968-2</a>	NO					
<a href="#">1456968-3</a>	NO					
<a href="#">1456968-4</a>	NO					
<a href="#">1456968-6</a>	NO					
<a href="#">1456968-8</a>	NO					
<a href="#">1488642-6</a>	NO					
<a href="#">1488642-7</a>	NO					
<a href="#">1488642-8</a>	NO					
<a href="#">1488642-9</a>	NO					
<a href="#">1488657-1</a>	NO					
<a href="#">1488657-2</a>	NO					
<a href="#">1534594-1</a>	NO					
<a href="#">1534594-3</a>	NO					
<a href="#">1534768-1</a>	NO					
<a href="#">1534768-4</a>	NO					
<a href="#">1557079-2</a>	NO					
<a href="#">1557079-3</a>	NO					
<a href="#">1557084-1</a>	NO					
<a href="#">1557085-1</a>	NO					
<a href="#">1557086-1</a>	NO					
<a href="#">1557104-1</a>	NO					
<a href="#">1557105-1</a>	NO					
<a href="#">1557126-2</a>	NO					
<a href="#">1557127-2</a>	NO					
<a href="#">1557270-3</a>	NO					
<a href="#">1557271-4</a>	NO					
<a href="#">1557271-7</a>	NO					
<a href="#">1557311-5</a>	NO					
<a href="#">1557312-1</a>	NO					
<a href="#">1557435-2</a>	NO					
<a href="#">1557463-3</a>	NO					
<a href="#">1557485-3</a>	NO					
<a href="#">1557485-4</a>	NO					
<a href="#">1557510-1</a>	NO					
<a href="#">1557546-1</a>	NO					
<a href="#">1557551-2</a>	NO					
<a href="#">1557555-2</a>	NO					
<a href="#">1557556-2</a>	NO					
<a href="#">1557566-1</a>	NO					
<a href="#">1557566-2</a>	NO					
<a href="#">1557567-1</a>	NO					
<a href="#">1557567-3</a>	NO					
<a href="#">1557577-5</a>	NO					
<a href="#">1557578-3</a>	NO					
<a href="#">1557603-3</a>	NO					
<a href="#">1557616-2</a>	NO					
<a href="#">1557617-2</a>	NO					
<a href="#">1557617-3</a>	NO					
<a href="#">1557634-1</a>	NO					
<a href="#">1557639-4</a>	NO					
<a href="#">1557648-1</a>	NO					
<a href="#">1557649-1</a>	NO					
<a href="#">1557651-1</a>	NO					
<a href="#">1557663-1</a>	NO					
<a href="#">1557674-3</a>	NO					
<a href="#">1557674-4</a>	NO					
<a href="#">1557678-1</a>	NO					
<a href="#">1557693-3</a>	NO					



Part Number	Part Discontinued per PCN	Customer Drawing	Alias Part Number(s)	Substitute Part Number	Substitute Alias Part Number(s)	Description Of Difference
<a href="#">1557702-1</a>	NO					
<a href="#">1557708-2</a>	NO					
<a href="#">1557722-2</a>	NO					
<a href="#">1557764-2</a>	NO					
<a href="#">1557764-3</a>	NO					
<a href="#">1557764-4</a>	NO					
<a href="#">1557764-5</a>	NO					
<a href="#">1557787-1</a>	NO					
<a href="#">1557801-1</a>	NO					
<a href="#">1557801-2</a>	NO					
<a href="#">1557801-3</a>	NO					
<a href="#">1557801-4</a>	NO					
<a href="#">1557812-3</a>	NO					
<a href="#">1557827-2</a>	NO					
<a href="#">1557837-1</a>	NO					
<a href="#">1557837-2</a>	NO					
<a href="#">1557837-3</a>	NO					
<a href="#">1557839-1</a>	NO					
<a href="#">1557853-4</a>	NO					
<a href="#">1557853-5</a>	NO					
<a href="#">1557853-6</a>	NO					
<a href="#">1557882-1</a>	NO					
<a href="#">1557882-2</a>	NO					
<a href="#">1557882-3</a>	NO					
<a href="#">1557883-1</a>	NO					
<a href="#">1557883-2</a>	NO					
<a href="#">1557883-3</a>	NO					
<a href="#">1557886-2</a>	NO					
<a href="#">1557886-4</a>	NO					
<a href="#">1557886-5</a>	NO					
<a href="#">1557887-2</a>	NO					
<a href="#">1557887-4</a>	NO					
<a href="#">1557887-5</a>	NO					
<a href="#">1557891-2</a>	NO					
<a href="#">1557891-3</a>	NO					
<a href="#">1557952-3</a>	NO					
<a href="#">1557989-2</a>	NO					
<a href="#">1587392-7</a>	NO					
<a href="#">1587392-8</a>	NO					
<a href="#">1587718-1</a>	NO					
<a href="#">1587724-1</a>	NO					
<a href="#">1587724-2</a>	NO					
<a href="#">1587724-3</a>	NO					
<a href="#">1587828-1</a>	NO					
<a href="#">1587828-2</a>	NO					
<a href="#">1587828-3</a>	NO					
<a href="#">1587829-1</a>	NO					
<a href="#">1587829-2</a>	NO					
<a href="#">1587829-3</a>	NO					
<a href="#">1642404-3</a>	NO					
<a href="#">1642524-3</a>	NO					
<a href="#">1642642-2</a>	NO					
<a href="#">1719958-1</a>	NO					
<a href="#">1732230-2</a>	NO					
<a href="#">1732230-3</a>	NO					
<a href="#">1732434-3</a>	NO					
<a href="#">1732452-4</a>	NO					
<a href="#">1732621-2</a>	NO					
<a href="#">1732624-2</a>	NO					
<a href="#">1732631-1</a>	NO					
<a href="#">1732724-1</a>	NO					
<a href="#">1732752-1</a>	NO					
<a href="#">1732789-2</a>	NO					
<a href="#">1732821-1</a>	NO					
<a href="#">1732821-3</a>	NO					

Part Number	Part Discontinued per PCN	Customer Drawing	Alias Part Number(s)	Substitute Part Number	Substitute Alias Part Number(s)	Description Of Difference
<a href="#">1732882-2</a>	NO					
<a href="#">1732893-3</a>	NO					
<a href="#">1732893-4</a>	NO					
<a href="#">1732967-1</a>	NO					
<a href="#">1732967-2</a>	NO					
<a href="#">1732993-1</a>	NO					
<a href="#">1732998-2</a>	NO					
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<a href="#">2103741-2</a>	NO					
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<a href="#">212868-2</a>	NO					
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<a href="#">2138597-3</a>	NO					
<a href="#">2141824-1</a>	NO					
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<a href="#">2247003-3</a>	NO					
<a href="#">2247007-1</a>	NO					
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<a href="#">2247037-2</a>	NO					
<a href="#">2247048-1</a>	NO					
<a href="#">2247064-1</a>	NO					
<a href="#">2247076-2</a>	NO					
<a href="#">2247102-1</a>	NO					
<a href="#">2247202-2</a>	NO					
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<a href="#">2272408-4</a>	NO					
<a href="#">2272409-1</a>	NO					
<a href="#">2288045-1</a>	NO					
<a href="#">2288243-2</a>	NO					
<a href="#">2294612-1</a>	NO					
<a href="#">2299041-1</a>	NO					
<a href="#">2299156-1</a>	NO					
<a href="#">2299156-2</a>	NO					
<a href="#">2299156-3</a>	NO					
<a href="#">2304851-2</a>	NO					
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Part Number	Part Discontinued per PCN	Customer Drawing	Alias Part Number(s)	Substitute Part Number	Substitute Alias Part Number(s)	Description Of Difference
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<a href="#">2306039-1</a>	NO					
<a href="#">2306883-1</a>	NO					
<a href="#">2306884-1</a>	NO					
<a href="#">2307561-3</a>	NO					
<a href="#">2307561-4</a>	NO					
<a href="#">2307655-1</a>	NO					
<a href="#">2307655-2</a>	NO					
<a href="#">2308552-1</a>	NO					
<a href="#">2309266-1</a>	NO					
<a href="#">2309270-1</a>	NO					
<a href="#">2309341-1</a>	NO					
<a href="#">2309386-1</a>	NO					
<a href="#">2309723-2</a>	NO					
<a href="#">2309723-3</a>	NO					
<a href="#">2309999-1</a>	NO					
<a href="#">2310292-1</a>	NO					
<a href="#">2311563-1</a>	NO					
<a href="#">2311563-2</a>	NO					
<a href="#">2311564-1</a>	NO					
<a href="#">2312163-1</a>	NO					
<a href="#">2312462-3</a>	NO					
<a href="#">2312473-5</a>	NO					
<a href="#">2312474-5</a>	NO					
<a href="#">2312478-6</a>	NO					
<a href="#">2312479-6</a>	NO					
<a href="#">2312483-3</a>	NO					
<a href="#">2314243-1</a>	NO					
<a href="#">2314246-1</a>	NO					
<a href="#">2314247-1</a>	NO					
<a href="#">2315359-1</a>	NO					
<a href="#">2315494-1</a>	NO					
<a href="#">2316023-1</a>	NO					
<a href="#">2316310-1</a>	NO					
<a href="#">2316310-2</a>	NO					
<a href="#">2316982-1</a>	NO					
<a href="#">2317402-1</a>	NO					
<a href="#">2317403-1</a>	NO					
<a href="#">2317943-2</a>	NO					
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<a href="#">2319107-1</a>	NO					
<a href="#">2320447-1</a>	NO					
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<a href="#">2321268-2</a>	NO					
<a href="#">2321395-1</a>	NO					
<a href="#">2321499-2</a>	NO					
<a href="#">2321508-2</a>	NO					
<a href="#">2321510-2</a>	NO					
<a href="#">2321574-2</a>	NO					
<a href="#">2321698-2</a>	NO					
<a href="#">2321700-2</a>	NO					
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Part Number	Part Discontinued per PCN	Customer Drawing	Alias Part Number(s)	Substitute Part Number	Substitute Alias Part Number(s)	Description Of Difference
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<a href="#">2321847-2</a>	NO					
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<a href="#">2321848-2</a>	NO					
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<a href="#">2321858-3</a>	NO					
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<a href="#">2321864-1</a>	NO					
<a href="#">2321864-2</a>	NO					
<a href="#">2321865-2</a>	NO					
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<a href="#">2321876-2</a>	NO					
<a href="#">2321982-1</a>	NO					
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<a href="#">2323771-2</a>	NO					
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<a href="#">2327150-2</a>	NO					
<a href="#">2327604-2</a>	NO					
<a href="#">2327611-1</a>	NO					
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<a href="#">2327691-2</a>	NO					
<a href="#">2329119-3</a>	NO					
<a href="#">2329515-2</a>	NO					
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Part Number	Part Discontinued per PCN	Customer Drawing	Alias Part Number(s)	Substitute Part Number	Substitute Alias Part Number(s)	Description Of Difference
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<a href="#">2350657-1</a>	NO					
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<a href="#">2352297-1</a>	NO					
<a href="#">2354451-1</a>	NO					
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<a href="#">5-1299505-4</a>	NO					
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Part Number	Part Discontinued per PCN	Customer Drawing	Alias Part Number(s)	Substitute Part Number	Substitute Alias Part Number(s)	Description Of Difference
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<a href="#">5-2237135-1</a>	NO					
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<a href="#">5-2324654-3</a>	NO					
<a href="#">5-2325384-2</a>	NO					
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<a href="#">5-963715-1</a>	NO					
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<a href="#">776129-2</a>	NO					
<a href="#">776129-6</a>	NO					
<a href="#">776181-1</a>	NO					
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<a href="#">776299-1</a>	NO					
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<a href="#">776685-3</a>	NO					
<a href="#">776690-2</a>	NO					
<a href="#">776887-2</a>	NO					
<a href="#">776887-3</a>	NO					
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<a href="#">9-1438313-2</a>	NO					
<a href="#">9-1438772-6</a>	NO					

Part Number	Part Discontinued per PCN	Customer Drawing	Alias Part Number(s)	Substitute Part Number	Substitute Alias Part Number(s)	Description Of Difference
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<a href="#">9-2035371-6</a>	NO					
<a href="#">9-2035587-6</a>	NO					
<a href="#">9-2138202-6</a>	NO					
<a href="#">9-638230-2</a>	NO					
<a href="#">9-638256-2</a>	NO					
<a href="#">9-638266-1</a>	NO					
<a href="#">9-638608-2</a>	NO					
<a href="#">9-776203-2</a>	NO					
<a href="#">9-776631-2</a>	NO					
<a href="#">9-776635-1</a>	NO					
<a href="#">927784-2</a>	NO		"0-0927784-2"			
<a href="#">963715-1</a>	NO					





## **Section 3**

# **Customer Engineering Approval**



# Section 4

## Design FMEA

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



## **Section 5**

# **Process Flow Diagram**

**See Section A for nondisclosure conditions.**

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



## **Section 6**

# **Process FMEA**

**See Section A for nondisclosure conditions.**

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



# Section 7

# Control Plan

**See Section A for nondisclosure conditions.**  
**The Control Plan, if included, is a Class II confidential document belonging to TE Connectivity. A class II document may not be further distributed and is subject to the conditions of the nondisclosure agreement.**



## **Section 8**

# **Measurement System Analysis**

# Section 9

# Dimensional Results

ROW DETAIL

BAL# / DESC FEATURE	NOMINAL TOLERANCE +/-	MEASURED OUT TOL
1 Microscope #4	16. +/- 0.500	15.997
2 Microscope #4	7.3 +/- 0.150	7.203
3 Microscope #4	3.65 +/- 0.100	3.643
4 Microscope #4	1.83 +/- 0.050	1.835
5 Microscope #4	2.4 +/- 0.100	2.399
6 Microscope #4	0.41 +/- 0.050	0.411
7 Microscope #4	1.83 +/- 0.050	1.833
8 Microscope #4	0.2 +/- 0.200	0.247
9 Microscope #4	2. +/- 0.200	1.988
10 Microscope #4	6.1 +/- 0.200	6.096
11 Microscope #4	3. +/- 0.200	3.016
12 Microscope #4	2.1 +/- 0.300	2.132
13 Microscope #4	2.1 +/- 0.300	2.102
14 Ø Microscope #4	1.1 +/- 0.200	1.145



ROW DETAIL - (Continued)

BAL# / DESC FEATURE	NOMINAL TOLERANCE +/-	MEASURED OUT TOL
15  Microscope #4	2.8 +/- 0.300	2.927
16  Microscope #4	2.9 +/- 0.300	2.874
17 ∅ Microscope #4	1.6 +/- 0.200	1.662
TOTAL # OF FEATURES	17	
LESS BASIC DIMENSIONS		
LESS EMPTY NOTES		0
LESS N/A DIMENSIONS		0
REPORTED DIMENSIONS		17
# DIMENSIONS IN TOLERANCE		17
# DIMENSIONS OUT OF TOLERANCE		0
% DIMENSIONS IN TOLERANCE		100.00%
% DIMENSIONS OUT OF TOLERANCE		0.00%
CUMULATIVE DIMENSIONS	17	
CUMULATIVE % (PIST) IN TOLERANCE	100.00%	

**OUT OF TOLERANCE SUMMARY**

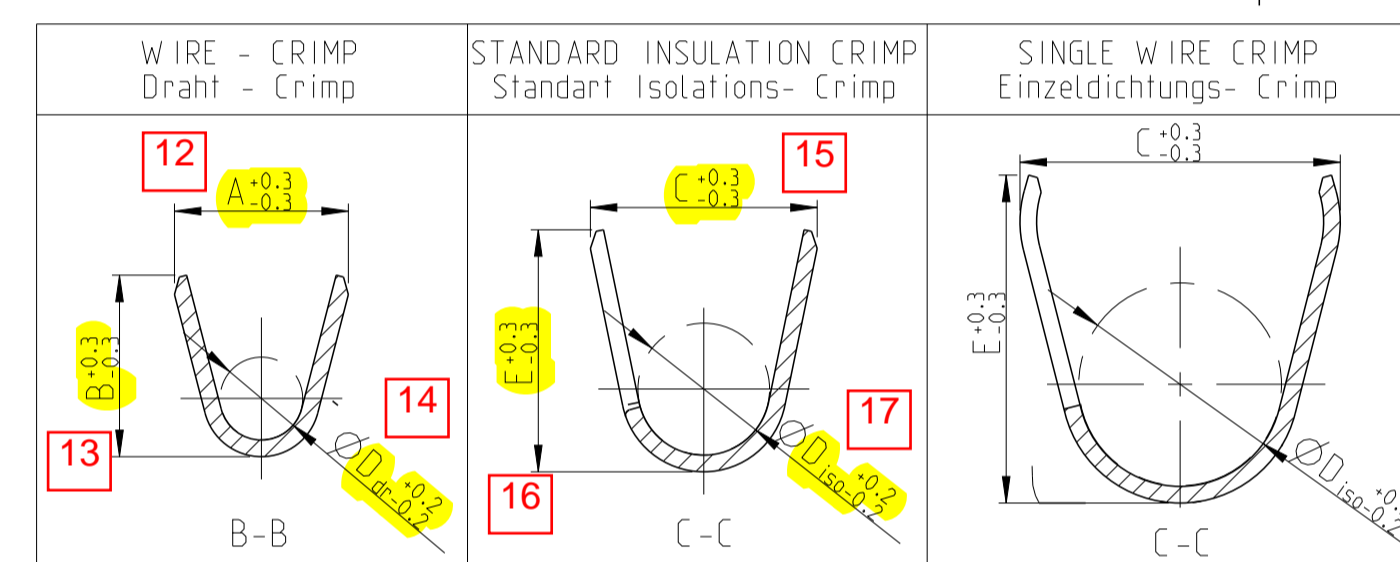
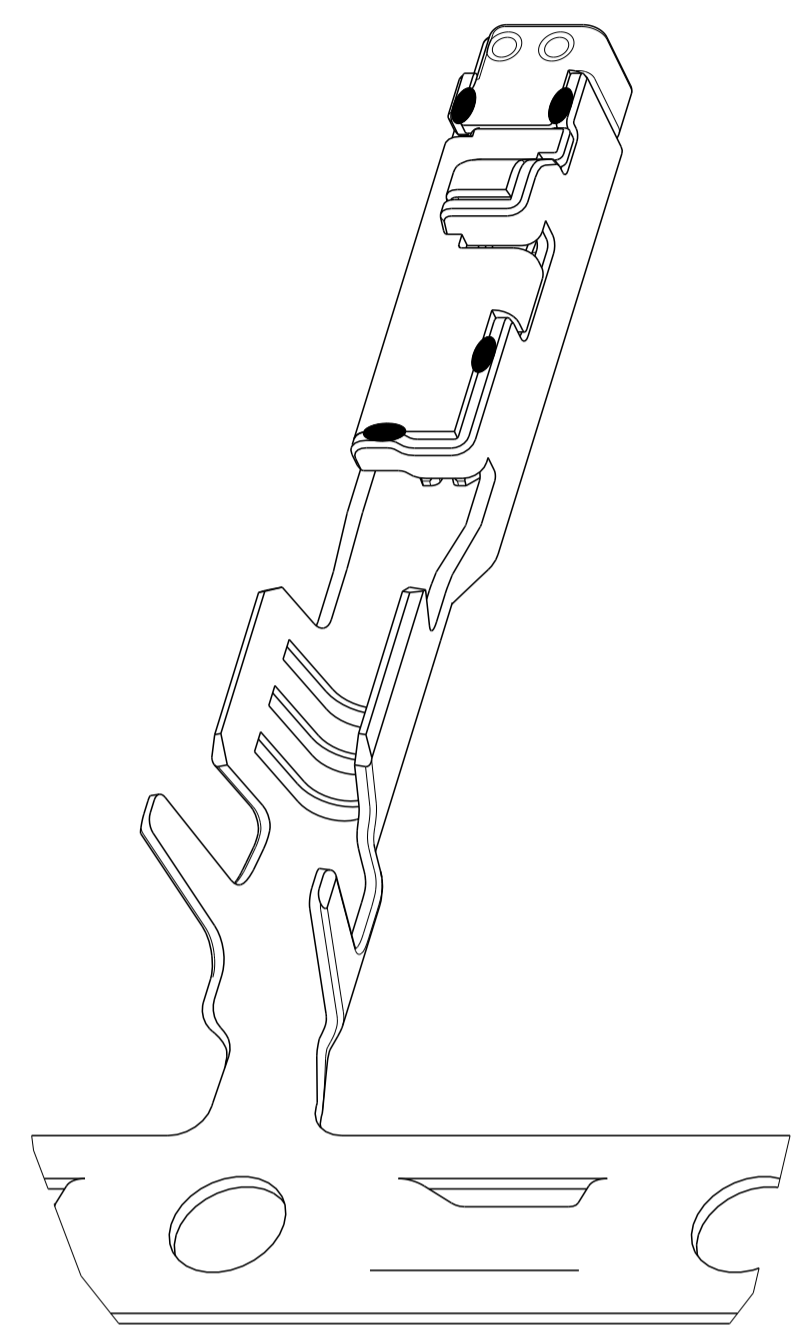
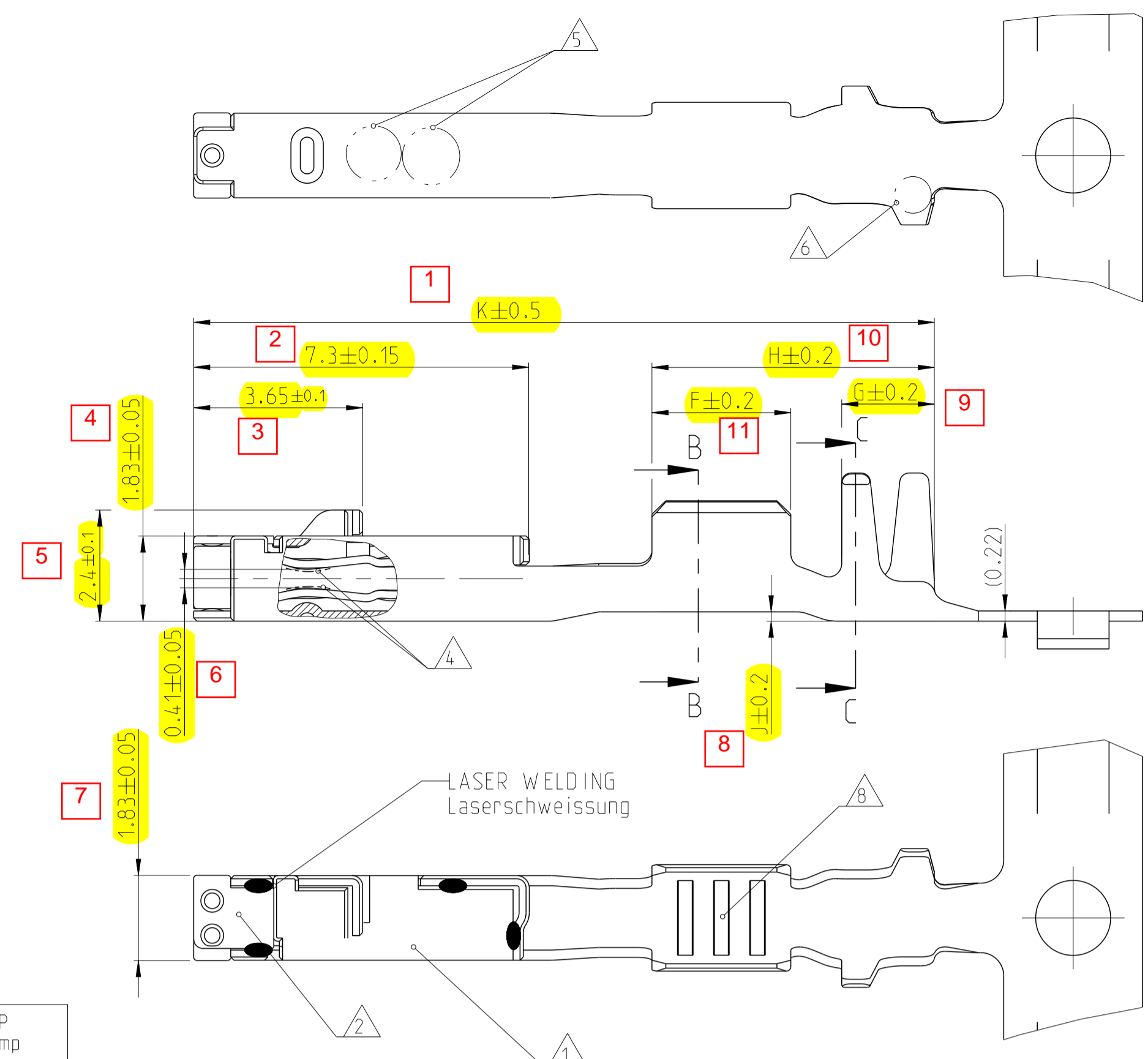
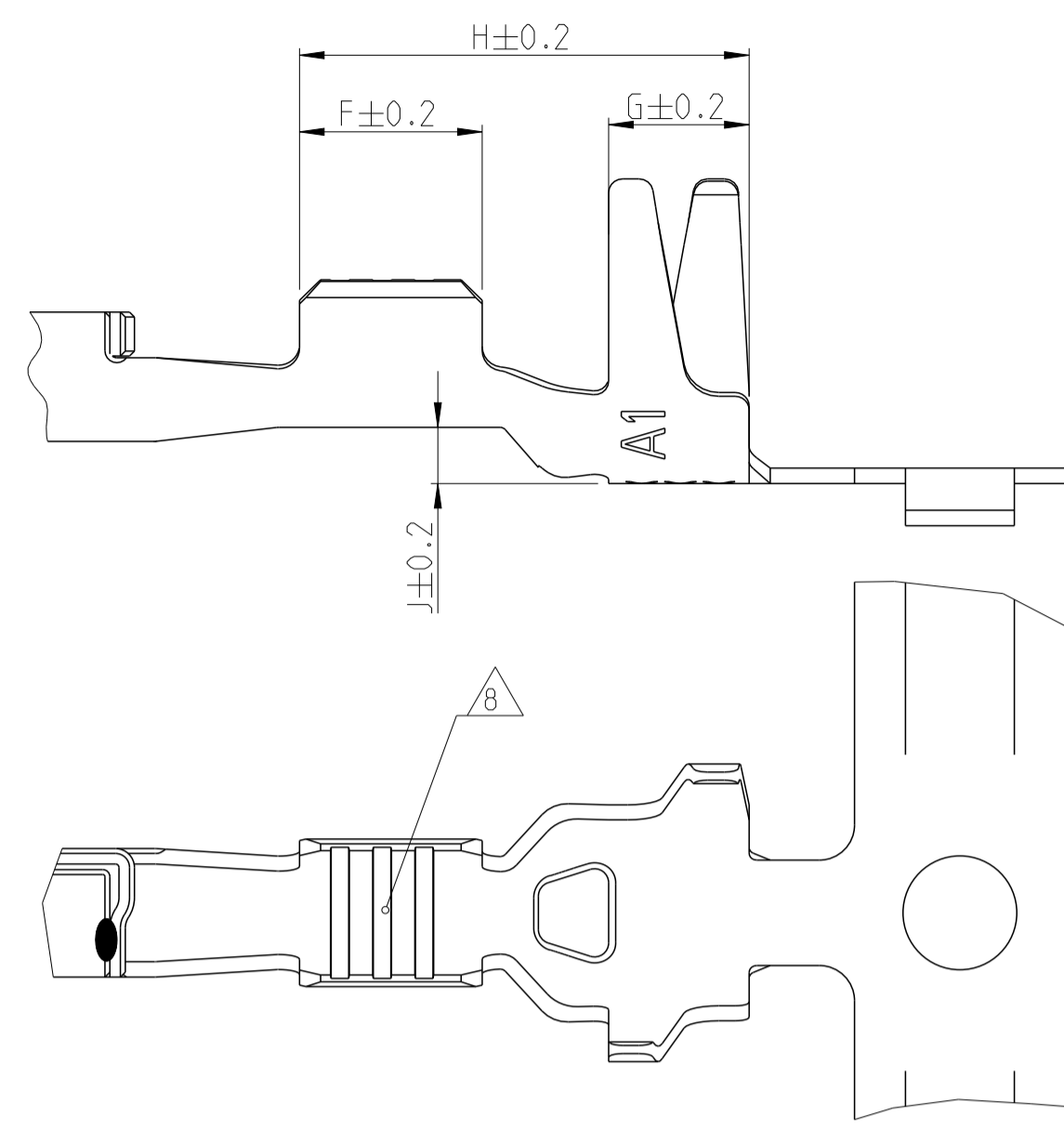
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BAL# / DESC	NOMINAL	MEASURED
FEATURE	TOLERANCE +/-	OUT TOL

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No Out Of Tolerance Features To Report For This Group.

REVISIONS				
NO.	DATE	DESCRIPTION	BY	APPV
G2	15NOV2012	PN 1394897 AND 1418847 OBSOLETE	S.R.	C.G.
G3	12JUN2014	ECR-14-008680 CANCELED	Abt	Raab
G4	25AUG2014	Loose Piece Parts removed from Table. ECR-14-012725	Abt	Raab
G5	02FEB2015	Tolerance from dim. J changed (drawing failure)	Ho.	Raab



VERSION / Ausführung	Rev.	BODY Kontakt-koerper	SPRING Kontakt-feder	BODY Kontakt-koerper	SPRING Kontakt-feder	RANGE Bereich	AWG	mm <sup>2</sup>	INSULATION Isolations-φ	WIRE CRIMP Drahtcrimp					ISOLATION CRIMP Isolationscrimp					LOOSE PIECE/ Einzelausführung	F	G	H	J	K	TE NO.	MASTER APPLICATION-TOOL Basis Crimp-Werkzeug	DIE-PN FOR BASIC-HAND TOOL 539635-1 ERGO-CRIMP Matrizen PN fuer Basisbandzange 539635-1 ERGO-Crimp	
										A	(B)	D <sub>Dr</sub>	C	E	D <sub>ISO</sub>	A	(B)	D <sub>Dr</sub>	C										E
SINGLE WIRE SEAL / Einzeldichtung	1418841-3	-	CuSn0.15	CuNi3Si	TIN PLATED verzinkt	SILVER PLATED versilbert	0.14	26	0.14	1.05	1.55	1.55	0.65	4.25	4.3	2.6	2.6	2	6.4	0.8	16	967067-2	963142-2	1528151	4-1579001-8	AS PRODUCTS ON CARRIERSTRIP wie Bandware	963143-1 (φ3.95) / 967056-1 (φ3.55)	1528151	4-1579001-8
	1418841-2	-	CuSn0.15	CuNi3Si	TIN PLATED verzinkt	GOLD PLATED vergoldet	0.22	-	0.22	1.2	1.55	1.55	0.65	4.25	4.3	2.6	2.6	2	6.4	0.8	16	967067-2	963142-2	1528152	3-1579001-9				
	1418844-3	C	CuSn0.15	CuNi3Si	TIN PLATED verzinkt	SILVER PLATED versilbert	0.25	24	-	1.1	1.85	1.85	0.8	4.25	4.3	2.6	2.6	2	6.4	0.8	16	967067-2	963142-2	1528152	3-1579001-9				
	1418844-2	C	CuSn0.15	CuNi3Si	TIN PLATED verzinkt	GOLD PLATED vergoldet	0.35	-	0.35	1.75	1.85	1.85	0.8	4.25	4.3	2.6	2.6	2	6.4	0.8	16	967067-1	963142-1	1528674	5-1579021-7				
	1418844-1	C	CuSn0.15	CuNi3Si	TIN PLATED verzinkt	TIN PLATED verzinkt	0.35	22	-	1.75	2.1	2.1	1.1	4.25	4.3	2.7	2.6	2	6.4	0.8	16	967067-1	963142-1	1528674	5-1579021-7				
	1670146-3	A	CuSn0.15	CuNi3Si	TIN PLATED verzinkt	SILVER PLATED versilbert	0.5	20	0.5	1.4	2.1	2.1	1.1	4.25	4.3	2.7	2.6	2	6.4	0.8	16	967067-1	963142-1	1528674	5-1579021-7				
	1670146-2	A	CuSn0.15	CuNi3Si	TIN PLATED verzinkt	GOLD PLATED vergoldet	0.75	-	0.75	1.9	2.1	2.1	1.1	4.25	4.3	2.7	2.6	2	6.4	0.8	16	967067-1	963142-1	1528674	5-1579021-7				
	1670146-1	A	CuSn0.15	CuNi3Si	TIN PLATED verzinkt	TIN PLATED verzinkt	0.75	-	0.75	1.9	2.1	2.1	1.1	4.25	4.3	2.7	2.6	2	6.4	0.8	16	967067-1	963142-1	1528674	5-1579021-7				
	1418847-3	D	CuSn0.15	CuNi3Si	TIN PLATED verzinkt	SILVER PLATED versilbert	0.5	20	0.5	1.4	2.3	2.5	1.1	4.25	4.3	2.7	2.6	2	6.4	0.8	16	967067-1	963142-2	1528153	3-1579001-8				
	1418847-2	D	CuSn0.15	CuNi3Si	TIN PLATED verzinkt	GOLD PLATED vergoldet	0.75	-	0.75	1.9	2.3	2.5	1.1	4.25	4.3	2.7	2.6	2	6.4	0.8	16	967067-1	963142-2	1528153	3-1579001-8				
	1418847-1	D	CuSn0.15	CuNi3Si	TIN PLATED verzinkt	TIN PLATED verzinkt	0.75	-	0.75	1.9	2.3	2.5	1.1	4.25	4.3	2.7	2.6	2	6.4	0.8	16	967067-1	963142-2	1528153	3-1579001-8				
	1418850-3	B	CuSn0.15	CuNi3Si	TIN PLATED verzinkt	SILVER PLATED versilbert	1.0	18	-	1.9	2.6	2.95	1.3	4.45	4.3	2.9	3	2	6.8	0.8	16.5	967067-1	967067-1	1528154	3-1579001-7				
	1418850-2	B	CuSn0.15	CuNi3Si	TIN PLATED verzinkt	GOLD PLATED vergoldet	1.5	-	1	2.4	2.6	2.95	1.3	4.45	4.3	2.9	3	2	6.8	0.8	16.5	967067-1	967067-1	1528154	3-1579001-7				
	1418850-1	B	CuSn0.15	CuNi3Si	TIN PLATED verzinkt	TIN PLATED verzinkt	1.5	16	-	2.4	2.6	2.95	1.3	4.45	4.3	2.9	3	2	6.8	0.8	16.5	967067-1	967067-1	1528154	3-1579001-7				
	1452500-3	-	CuSn0.15	CuNi3Si	TIN PLATED verzinkt	SILVER PLATED versilbert	0.14	26	0.14	1.05	1.55	1.55	0.65	2.1	2.1	1.1	2.6	2	5.7	0	15	-	-	1528146	3-1579001-6				
	1452500-2	-	CuSn0.15	CuNi3Si	TIN PLATED verzinkt	GOLD PLATED vergoldet	0.22	-	0.22	1.2	1.55	1.55	0.65	2.1	2.1	1.1	2.6	2	5.7	0	15	-	-	1528146	3-1579001-6				
	1452500-1	-	CuSn0.15	CuNi3Si	TIN PLATED verzinkt	TIN PLATED verzinkt	0.22	-	0.22	1.2	1.55	1.55	0.65	2.1	2.1	1.1	2.6	2	5.7	0	15	-	-	1528146	3-1579001-6				
	1534594-3	E	CuSn0.15	CuNi3Si	TIN PLATED verzinkt	SILVER PLATED versilbert	0.25	24	-	1.1	1.85	1.85	0.8	2.65	2.65	1.4	2.6	2	5.7	0.2	15	-	-	1528147	0-1579001-6				
	1534594-2	E	CuSn0.15	CuNi3Si	TIN PLATED verzinkt	GOLD PLATED vergoldet	0.35	-	0.35	1.75	1.85	1.85	0.8	2.65	2.65	1.4	2.6	2	5.7	0.2	15	-	-	1528147	0-1579001-6				
	1534594-1	E	CuSn0.15	CuNi3Si	TIN PLATED verzinkt	TIN PLATED verzinkt	0.35	22	-	1.75	1.85	1.85	0.8	2.65	2.65	1.4	2.6	2	5.7	0.2	15	-	-	1528147	0-1579001-6				
1670144-3	A	CuSn0.15	CuNi3Si	TIN PLATED verzinkt	SILVER PLATED versilbert	0.5	20	0.5	1.4	2.1	2.1	1.1	2.8	2.9	1.6	3	2	6.1	0.2	16	-	-	1528673	5-1579021-6					
1670144-2	A	CuSn0.15	CuNi3Si	TIN PLATED verzinkt	GOLD PLATED vergoldet	0.75	-	0.75	1.9	2.1	2.1	1.1	2.8	2.9	1.6	3	2	6.1	0.2	16	-	-	1528673	5-1579021-6					
1670144-1	A	CuSn0.15	CuNi3Si	TIN PLATED verzinkt	TIN PLATED verzinkt	0.75	-	0.75	1.9	2.1	2.1	1.1	2.8	2.9	1.6	3	2	6.1	0.2	16	-	-	1528673	5-1579021-6					
1394897-3	E	CuSn0.15	CuNi3Si	TIN PLATED verzinkt	SILVER PLATED versilbert	0.5	20	0.5	1.4	2.3	2.5	1.1	3	3.2	1.75	3	2	6.1	0.2	16	-	-	1528148	0-1579001-5					
1394897-2	E	CuSn0.15	CuNi3Si	TIN PLATED verzinkt	GOLD PLATED vergoldet	0.75	-	0.75	1.9	2.3	2.5	1.1	3	3.2	1.75	3	2	6.1	0.2	16	-	-	1528148	0-1579001-5					
1394897-1	E	CuSn0.15	CuNi3Si	TIN PLATED verzinkt	TIN PLATED verzinkt	0.75	-	0.75	1.9	2.3	2.5	1.1	3	3.2	1.75	3	2	6.1	0.2	16	-	-	1528148	0-1579001-5					
1452503-3	C	CuSn0.15	CuNi3Si	TIN PLATED verzinkt	SILVER PLATED versilbert	1.0	18	-	1.9	2.6	2.95	1.3	3.75	3.95	2.1	3	2	6.1	0.2	16	-	-	1528150	1-1579001-3					
1452503-2	C	CuSn0.15	CuNi3Si	TIN PLATED verzinkt	GOLD PLATED vergoldet	1.5	-	1	2.4	2.6	2.95	1.3	3.75	3.95	2.1	3	2	6.1	0.2	16	-	-	1528150	1-1579001-3					
1452503-1	C	CuSn0.15	CuNi3Si	TIN PLATED verzinkt	TIN PLATED verzinkt	1.5	-	1.5	2.4	2.6	2.95	1.3	3.75	3.95	2.1	3	2	6.1	0.2	16	-	-	1528150	1-1579001-3					

NOTES

- 1 BODY
- 2 SPRING
- 3 ONLY FOR FLR-WIRE SEE DIN 72551. PART 6 AND AWG WIRE ACCORDING DC-SPEC: MS-8288; MS-7889; MS-9532
- 4 SURFACE
  - a) BODY -PRE TIN 1 TO 3 μm
  - b) SPRING -PRE TIN SnAg 1 TO 3 μm
  - GOLD PLATED MIN. 0.8 μm (ONLY CONTACT AREA)
  - SILVER PLATED 2 TO 5 μm (ONLY CONTACT AREA)
- 5 STAMPED INDICATOR FOR PLATING:
  - A U GOLD PLATING
  - A G SILVER PLATING
  - TIN PLATING WITHOUT INDICATOR
- 6 OPTIONAL DATE CODE
- 7 1394897-1, -2, -3 superseded by 1670144-1, -2, -3  
1418847-1, -2, -3 superseded by 1670146-1, -2, -3
- 8 DIFFERENT FORM OF THE SERRATIONS POSSIBLE

Bemerkungen

- 1 Kontaktkoerper
- 2 Kontaktfeder
- 3 Nur fuer FLR-Leitung nach DIN 72551. Teil 6 und AWG Leitung nach DC-Spec: MS-8288; MS-7889; MS-9532
- 4 Oberflaeche
  - a) Kontaktkoerper -verzinkt 1 bis 3 μm
  - b) Kontaktfeder -verzinkt SnAg 1 bis 3 μm
  - galv. vergoldet min. 0.8 μm (nur Kontaktzone)
  - galv. versilbert 2 bis 5 μm (nur Kontaktzone)
- 5 Markierung fuer galvanische Ausfuehrung:
  - A U vergoldet
  - A G versilbert
  - Verzinkt: ohne Markierung
- 6 Optional Datumscode
- 7 1394897-1, -2, -3 ersetzt durch 1670144-1, -2, -3  
1418847-1, -2, -3 ersetzt durch 1670146-1, -2, -3
- 8 Unterschiedliche Ausfuehrung der Rillen moeglich

THIS DRAWING IS A CONTROLLED DOCUMENT.

DIMENSIONS:	TOLERANCES UNLESS OTHERWISE SPECIFIED:	OWN: G. Hotea	DATE: 17AUG2001
mm	0 PLC ±0.2	CHK: E. Herth	DATE: 11MAR2002
	1 PLC ±0.2	APV: H. Wendling	DATE: 12MAR2002
	2 PLC ±0.2	PRODUCT SPEC	
	3 PLC ±0.2	108-18782	
	4 PLC ±0.2	APPLICATION SPEC	
	ANGLES ±0.1°	114-18464	
MATERIAL:	FINISH:	WEIGHT: 0.18 g	SIZE: A1
		Customer Drawing	SCALE: 10:1

TE Connectivity  
MCON 1.2 CB (CLEAN BODY)

00779 ©=1534326

10:1 SHEET 1 OF 1 REV: G5



## **Section 10**

# **Material, Performance Test Results**



TYCO ELECTRONICS

8000 PIEDMONT TRIAD PKWY

27409 GREENSBORO

USA

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<b>Inspection Certificate 3.1</b>		coil	Producer	Packing List	order	customer
EN 10204:2005		300626367S	KM	167430	2110703 - 1	04004800
pieces	3		weight net		6798,99 lbs	
Lot Number		WC407605, WC407607, WC407609				
your order		2-705487-9 2703959393 RE				
customers material no.		2-705487-9		article no.		7801531
STOL60 0,22 x 21 SN28M		100-1343 REV E 112-73-2 Rev C / 107-18010				
<b>mechanical test</b>		nominal		actual		
		min.	max.	min.	max.	
thickness	"	0,00827	0,00866	0,00858	0,00874	
width	"	0,8248	0,82874	0,82677	0,82717	
tensile strength	RM ksi	60,9	71,1	64,8	65,6	
yield strength	RP ksi	50,8		60,3	60,9	
elongation	A 50mm    %	2		6,4	6,6	
bend test	180° r= 0.55mm BK :			free of cracks	free of cracks	
bend test	+ 180° r= 0.44mm BK :			free of cracks	free of cracks	
electrical conductivity	m/(Omm²)	45		46,8	46,8	
edgewise camber	mm/ 900		1,6	0,06	0,15	
coil set	mm/ 900		225	4	9	
transverse curvature	mm/ 21		0,042	0,002	0,003	
slitting burr	mm		0,022	0,002	0,003	
surface roughness Ra	Ra µm		0,35	0,1	0,12	
layer	Sn28M hot dip µm	1	3	1,54	1,72	
grain size	µm		30	20	20	
twist	°/ 900		10	1	3	
<b>chemical composition %</b>		lead free				
P					0.0103	
SN					0.1773	
OTHERS					remainder	
The contents of all elements not listed here explicitly fulfill the requirements as defined under your order given above						
material test		person in charge: Mr. Fuchs		phone	:+49 2402 105-516	
(This computer generated letter is valid without signature)				fax	:+49 2402 105-279	
				mail	:andreas.fuchs@kmdgroup.com	



TYCO ELECTRONICS

8000 PIEDMONT TRIAD PKWY

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USA

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<b>Inspection Certificate 3.1</b>		coil	Producer	Packing List	order	customer
EN 10204:2005		300612351S	KM	167430	2110703 - 1	04004800
pieces	2		weight net		4576,75 lbs	
Lot Number WC407608, WC407608						
your order	2-705487-9 2703959393 RE		article no.		7801531	
customers material no.	2-705487-9					
STOL80 0,22 x 21 SN28M						
100-1343 REV E						
112-73-2 Rev C / 107-18010						
<b>mechanical test</b>		nominal		actual		
		min.	max.	min.	max.	
thickness	"	0,00827	0,00866	0,00839	0,00854	
width	"	0,8248	0,82874	0,82638	0,82756	
tensile strength	RM ksi	60,9	71,1	62,7	63,1	
yield strength	RP ksi	50,8		59,3	59,5	
elongation	A 50mm    %	2		7	8,1	
bend test	180° r= 0.55mm BK :			free of cracks	free of cracks	
bend test	+ 180° r= 0.44mm BK :			free of cracks	free of cracks	
electrical conductivity	m/(Omm²)	45		47,2	47,2	
edgewise camber	mm/ 900		1,6	0,29	0,51	
coil set	mm/ 900		225	17	30	
transverse curvature	mm/ 21		0,042	0,002	0,003	
slitting burr	mm		0,022	0,002	0,012	
surface roughness Ra	Ra µm		0,35	0,08	0,12	
layer	Sn28M hot dip µm	1	3	1,51	2,13	
grain size	µm		30	15	15	
twist	°/ 900		10	1	3	
<b>chemical composition %</b>		lead free				
P					0.0106	
SN					0.1788	
OTHERS					remainder	
The contents of all elements not listed here explicitly fulfill the requirements as defined under your order given above						
material test				phone	:+49 2402 105-516	
person in charge: Mr. Fuchs				fax	:+49 2402 105-279	
(This computer generated letter is valid without signature)				mail	:andreas.fuchs@kmdgroup.com	

TYCO ELECTRONICS

8000 PIEDMONT TRIAD PKWY

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USA

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<b>Inspection Certificate 3.1</b>		coil	Producer	Packing List	order	customer
EN 10204:2005		100189389B	KM	167430	2110703 - 1	04004800
pieces	1	weight net			2524,27 lbs	
Lot Number WC407577						
your order		2-705487-9 2703959393 RE				
customers material no.		2-705487-9			article no.	7801531
STOL80 0,22 x 21 SN28M		100-1343 REV E				
		112-73-2 Rev C / 107-18010				
<b>mechanical test</b>		nominal		actual		
		min.	max.	min.	max.	
thickness	"	0,00827	0,00866	0,00854	0,00862	
width	"	0,8248	0,82874	0,82677	0,82795	
tensile strength	RM ksi	60,9	71,1	65,7	66	
yield strength	RP ksi	50,8		62,1	62,2	
elongation	A 50mm    %	2		6,6	6,8	
bend test	180° r= 0.55mm BK :			free of cracks	free of cracks	
bend test	+ 180° r= 0.44mm BK :			free of cracks	free of cracks	
electrical conductivity	m/(Omm <sup>2</sup> )	45		48,1	48,1	
edgewise camber	mm/ 900		1,6	0,34	0,67	
coil set	mm/ 900		225	9	60	
transverse curvature	mm/ 21		0,042	0,001	0,003	
slitting burr	mm		0,022	0,001	0,01	
surface roughness Ra	Ra µm		0,35	0,05	0,11	
layer	Sn28M hot dip µm	1	3	1,47	2,73	
grain size	µm		30	20	20	
twist	°/ 900		10	1	2	
<b>chemical composition %</b>		lead free				
P					0.0090	
SN					0.1706	
OTHERS					remainder	
The contents of all elements not listed here explicitly fulfill the requirements as defined under your order given above						
material test		person in charge: Mr. Fuchs			phone	:+49 2402 105-516
(This computer generated letter is valid without signature)					fax	:+49 2402 105-279
					mail	:andreas.fuchs@kmdgroup.com

TE CONNECTIVITY

8000 PIEDMONT TRIAD PKWY

27409 GREENSBORO

USA

page 1

<b>Inspection Certificate 3.1</b>		coil	Producer	Packing List	order	customer
EN 10204:2005		300626352S	KM	167819	2108019 - 1	04004800
pieces	3	weight net			5714,32 lbs	
Lot Number WC408082, WC408081, WC408080						
your order		705566-5 36079993				
customers material no.		705566-5 REV B		article no.		7108260
C7025 0,200X 26,50 SN28M		100-1086 Rev Z / 112-73-2 Rev				
		107-62-18 REV AU				
<b>mechanical test</b>		nominal		actual		
		min.	max.	min.	max.	
thickness	"	0,0076	0,00789	0,00772	0,00783	
width	"	1,04134	1,04528	1,04331	1,04449	
tensile strength	RM ksi	87	113,1	100,2	100,4	
yield strength	RP ksi	72,5	84,1	82,2	82,7	
elongation	A 50mm    %	10		16,4	16,4	
bend test	180° r= 0.20mm BK :			free of cracks	free of cracks	
bend test	+ 180° r= 0.20mm BK :			free of cracks	free of cracks	
lacs	%	40		42,2	42,2	
edgewise camber	mm/ 900		1,6	0,12	0,2	
coil set	mm/ 900		225	13	31	
transverse curvature	mm/ 27		0,053	0,002	0,003	
slitting burr	mm		0,02	0,001	0,006	
surface roughness Ra	Ra µm		0,35	0,08	0,13	
layer	Sn28M hot dip µm	1	3	2,01	2,93	
grain size	µm		30	20	20	
twist	°/ 900		10	1	3	
<b>chemical composition %</b>		lead free				
SI					0.4278	
MG					0.1001	
CO					0.0006	
ZN					0.0717	
MN					0.0014	
FE					0.0238	
NI					2.3536	
The contents of all elements not listed here explicitly fulfill the requirements as defined under your order given above						
material test				phone	:+49 2402 105-516	
person in charge: Mr. Fuchs				fax	:+49 2402 105-279	
(This computer generated letter is valid without signature)				mail	:andreas.fuchs@kmdgroup.com	



dated 09.06.2020



TE CONNECTIVITY

8000 PIEDMONT TRIAD PKWY

27409 GREENSBORO

USA

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<b>Inspection Certificate 3.1</b>		coil	Producer	Packing List	order	customer
EN 10204:2005		300626352S	KM	167819	2108019 - 1	04004800
pieces	3				weight net	5714,32 lbs
Lot Number WC408082, WC408081, WC408080						
your order		705566-5 36079993				
customers material no.		705566-5 REV B		article no.		7106260
C7025 0,200X 26,50 SN28M		100-1086 Rev Z / 112-73-2 Rev				
		107-52-18 REV AU				
CU						remainder
The contents of all elements not listed here explicitly fulfill the requirements as defined under your order given above						
material test		person in charge: Mr. Fuchs		phone	:+49 2402 105-516	
(This computer generated letter is valid without signature)				fax	:+49 2402 105-279	
				mail	:andreas.fuchs@kmdgroup.coi	



# **Section 11**

# **Initial Process Studies**

SIS20-236 CAP/1670144-3 DIE 11-0571403/MCON 1.2 CB (CLEAN BODY)/In Process/TE CONNECTIVITY//08/11/2020

COLUMN DETAIL - GROUP SIZE: 1 - STD. DEV BASED ON: Population (N)

---

BAL/Desc/Loc	1
Nominal	7.3
Geo. Name	
Tolerance	+/-0.150
Comment	
Device	Microscope #4

---

#001	7.297
#002	7.296
#003	7.298
#004	7.295
#005	7.297
#006	7.298
#007	7.296
#008	7.296
#009	7.294
#010	7.293
#011	7.296
#012	7.294
#013	7.297
#014	7.299
#015	7.296
#016	7.295
#017	7.293
#018	7.298
#019	7.298
#020	7.296
#021	7.298
#022	7.299
#023	7.297
#024	7.297
#025	7.298
#026	7.294
#027	7.295
#028	7.293
#029	7.297
#030	7.294
#031	7.294
#032	7.293
#033	7.295
#034	7.297
#035	7.294
#036	7.294
#037	7.297
#038	7.294
#039	7.297
#040	7.297
#041	7.295
#042	7.297
#043	7.298
#044	7.294
#045	7.295
#046	7.293
#047	7.298
#048	7.297
#049	7.295
#050	7.298
#051	7.298
#052	7.296
#053	7.297
#054	7.295
#055	7.299
#056	7.295
#057	7.299
#058	7.297

SIS20-236 CAP/1670144-3 DIE 11-0571403/MCON 1.2 CB (CLEAN BODY)/In Process/TE CONNECTIVITY//08/11/2020

COLUMN DETAIL - GROUP SIZE: 1 - STD. DEV BASED ON: Population (N) - (Continued)

---

BAL/Desc/Loc 1  
Nominal 7.3  
Geo. Name  
Tolerance +/-0.150  
Comment  
Device Microscope #4

---

#059	7.293
#060	7.294
#061	7.297
#062	7.298
#063	7.295
#064	7.299
#065	7.297
#066	7.294
#067	7.296
#068	7.299
#069	7.296
#070	7.299
#071	7.299
#072	7.301
#073	7.295
#074	7.297
#075	7.296
#076	7.298
#077	7.299
#078	7.296
#079	7.300
#080	7.300
#081	7.294
#082	7.299
#083	7.300
#084	7.295
#085	7.299
#086	7.297
#087	7.298
#088	7.299
#089	7.296
#090	7.298
#091	7.298
#092	7.297
#093	7.298
#094	7.301
#095	7.296
#096	7.297
#097	7.296
#098	7.299
#099	7.297
#100	7.299
#101	7.297
#102	7.296
#103	7.294
#104	7.297
#105	7.298
#106	7.296
#107	7.298
#108	7.299
#109	7.297
#110	7.297
#111	7.299
#112	7.297
#113	7.297
#114	7.299
#115	7.299
#116	7.296

SIS20-236 CAP/1670144-3 DIE 11-0571403/MCON 1.2 CB (CLEAN BODY)/In Process/TE CONNECTIVITY//08/11/2020

COLUMN DETAIL - GROUP SIZE: 1 - STD. DEV BASED ON: Population (N) - (Continued)

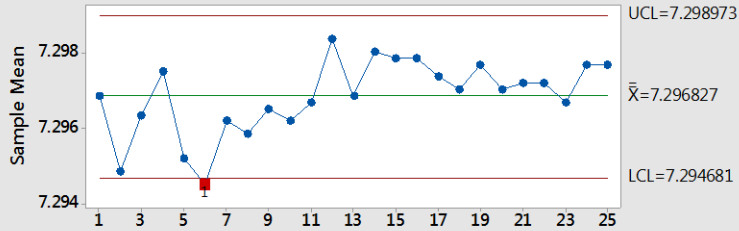
BAL/Desc/Loc 1  
 Nominal 7.3  
 Geo. Name  
 Tolerance +/-0.150  
 Comment  
 Device Microscope #4

#117	7.300
#118	7.296
#119	7.297
#120	7.294
#121	7.298
#122	7.294
#123	7.300
#124	7.297
#125	7.296
#126	7.298
#127	7.296
#128	7.297
#129	7.296
#130	7.299
#131	7.296
#132	7.299
#133	7.294
#134	7.297
#135	7.297
#136	7.296
#137	7.299
#138	7.297
#139	7.300
#140	7.294
#141	7.298
#142	7.299
#143	7.296
#144	7.299
#145	7.297
#146	7.300
#147	7.300
#148	7.294
#149	7.297
#150	7.298

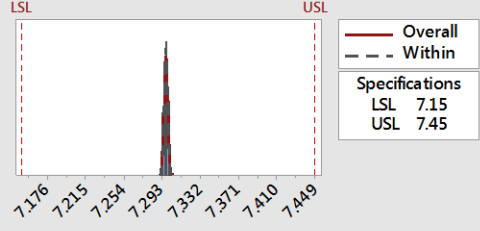
Minimum	7.293
Maximum	7.301
Range	0.008
Mean	7.297
Std. Dev.	0.001910
Cr	0.038
Cp	26.178
Cpk Sigma +/- 3	25.626
Std. Dev. (Range)	0.001910
XBarBar	7.297
RBar	0.000
Pp	26.178
Ppk	25.624

# Process Capability Sixpack Report for 1

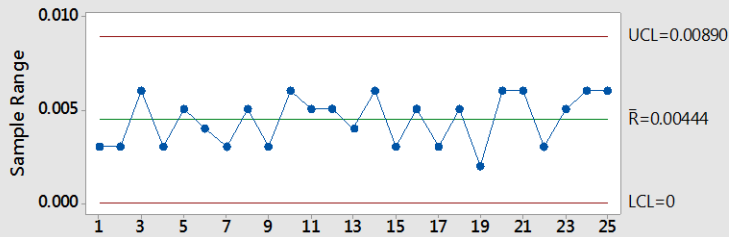
Xbar Chart



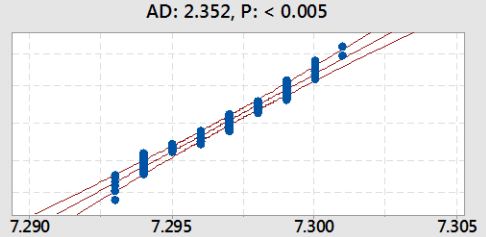
Capability Histogram



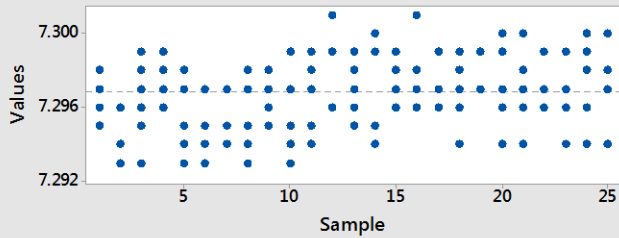
R Chart



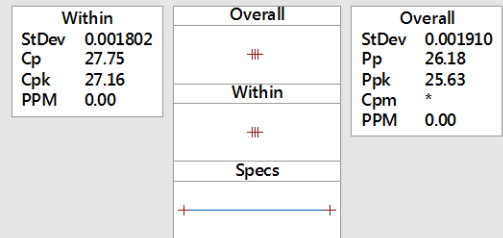
Normal Prob Plot



Last 25 Subgroups



Capability Plot



**Not Applicable**



## **Section 12**

# **Qualified Laboratory Documentation**



# Certificate of Registration

QUALITY MANAGEMENT SYSTEM - IATF 16949:2016

This is to certify that:

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

operates a Quality Management System which complies with the requirements of IATF 16949:2016 for the following scope:

Design and manufacture of electrical interconnecting devices.

For and on behalf of BSI:

  
\_\_\_\_\_  
Carlos Pitanga, Chief Operating Officer Assurance – Americas

BSI Certificate Number: 514458-007

IATF Number: 0338830



Certification Date: 2018-10-18

Latest Issue: 2018-10-18

Page: 1 of 3

...making excellence a habit.™

Expiry Date: 2021-10-17

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

An electronic certificate can be authenticated [online](http://www.bsigroup.com/ClientDirectory). Printed copies can be validated at [www.bsigroup.com/ClientDirectory](http://www.bsigroup.com/ClientDirectory)

To be read in conjunction with the scope above or the attached appendix.

Further clarifications regarding the scope of this certificate and the applicability of IATF 16949 requirements may be obtained by consulting the organization.

IATF Contracted Office: BSI Assurance UK Limited, registered in England under number 7805321 at 389 Chiswick High Road, London W4 4AL, UK.

Americas Headquarters: BSI Group America Inc., 12950 Worldgate Drive, Suite 800, Herndon, VA 20170-6007 USA

A Member of the BSI Group of Companies.

Location

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

Registered Activities

Design and manufacture of electrical interconnecting devices.

Including the following remote support functions:

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

TE Connectivity  
Global Automotive Division  
Americas North  
20 Esna Park Drive  
Markham  
Ontario  
L3R 1E1  
Canada  
Testing, Product design

TE Connectivity  
Global Automotive Division  
Americas North  
1901 Fulling Mill Road  
Middletown  
Pennsylvania  
17057  
USA  
Customer service, Testing, Product design

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

BSI Certificate Number: 514458-007

IATF Number: 0338830



Certification Date: 2018-10-18

Latest Issue: 2018-10-18

Expiry Date: 2021-10-17

Page: 2 of 3

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To be read in conjunction with the scope above or the attached appendix.

Further clarifications regarding the scope of this certificate and the applicability of IATF 16949 requirements may be obtained by consulting the organization.

IATF Contracted Office: BSI Assurance UK Limited, registered in England under number 7805321 at 389 Chiswick High Road, London W4 4AL, UK.

Americas Headquarters: BSI Group America Inc., 12950 Worldgate Drive, Suite 800, Herndon, VA 20170-6007 USA

A Member of the BSI Group of Companies.

Location

Registered Activities

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

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

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

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

Including the following extended manufacturing sites:

TE Connectivity  
Global Automotive Division  
Americas North  
233 Burgess Road  
Greensboro  
North Carolina  
27409  
USA  
Design and manufacture of electrical interconnecting devices

BSI Certificate Number: 514458-007

IATF Number: 0338830



Certification Date: 2018-10-18

Latest Issue: 2018-10-18

Expiry Date: 2021-10-17

Page: 3 of 3

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To be read in conjunction with the scope above or the attached appendix.

Further clarifications regarding the scope of this certificate and the applicability of IATF 16949 requirements may be obtained by consulting the organization.

IATF Contracted Office: BSI Assurance UK Limited, registered in England under number 7805321 at 389 Chiswick High Road, London W4 4AL, UK.



## **Section 13**

# **Appearance Approval Report**

**Not Applicable**



## **Section 14**

# **Sample Product**

**Sent in separate package  
(if required)**



# **Section 15**

# **Master Sample**

**Retained at manufacturing location**

# Section 16

# Checking Aids



**Not Applicable**



## **Section 17**

# **Records of Compliance with Customer-Specific Requirements**

# MDS Report

## Substances of assemblies and materials

This report is for internal Automotive industry use only. Distribution to non-Automotive clients is a violation of the Terms of Use, and is not permitted unless a written permission was given by DXC Technology. Parsing is not allowed.

### 1. Company and Product Name

#### 1.1 Supplier Data

Name [ID]: **Tyco Electronics GAD [913]**  
DUNS Number: **-**  
Street/Postal Code: **Amperestr. 12-14**  
Nat./ZipCode/City: **DE 64625 Bensheim**  
Supplier Code: **-**  
Contact Person: **IMDS Team (India) Engineering Services**  
  
- Phone: **-**  
- Fax No.: **-**  
- E-Mail Address: **IMDS@te.com**

#### 1.2 Product Identification

Part/Item No.: **1670144-1**  
Description: **MCON-1.2 CB**  
Report No.: **-**  
Date of Report: **-**  
Purchase Order No.: **-**  
Bill of Delivery No.: **-**  
  
Preliminary MDS: **No**  
IMDS ID / Version: **57197595 / 21**  
Node ID: **846559003**  
MDS Status (Change Date): **Internally released (07/10/2019)**

# MDS Report

## Substances of assemblies and materials

Materials which are subject to legal prohibitions must not be included!  
 Dangerous substances formed or released during use must also be declared  
 Please note: GADSL list for substances that require declaration

### 2. Characterization of the Component

Part/Item No.: **1670144-1**  
 Description: **MCON-1.2 CB**

Report No.: **-**  
 IMDS ID / Version: **57197595 / 21**  
 Node ID: **846559003**

Tree Level	Description Article Name Name Substance name	Part/Item No. Item- /Mat.-No. Material-No. CAS No.	IMDS ID / Version	Quantity	Weight [g]	Portion [%]	Portion (from - to) [%]	Classif. GADSL, SVHC	Parts Marking Recyclate (Indust./Consumer) Application [ID]
1	MCON-1.2 CB	1670144-1	57197595 / 21		0.177				
├2	Body			1	0.148				
├3	CuSn0,15		10767190 / 5		0.1447			3.2 No	
├4	Copper	7440-50-8				99.7475		D	
├4	Misc., not to declare	system				0.05	0 - 0.1		

Tree Level	Description Article Name Name Substance name	Part/Item No. Item- /Mat.-No. Material-No. CAS No.	IMDS ID / Version	Quantity	Weight [g]	Portion [%]	Portion (from - to) [%]	Classif. GADSL, SVHC	Parts Marking Recyclate (Indust./Consumer) Application [ID]
└4	Phosphorus	7723-14-0				0.0075	0 - 0.015		
└4	Iron	7439-89-6				0.01	0 - 0.02		
└4	Zinc (metal)	7440-66-6				0.05	0 - 0.1		
└4	Nickel	7440-02-0				0.01	0 - 0.02	D	Not applicable [34]
└4	Tin	7440-31-5				0.125	0.1 - 0.15		
└3	e-plate SnAg (electrodeposited Tin-Silver Coatings)		10629288 / 2		0.0033			4.2	No
└4	Carbon	7440-44-0				0.025	0.01 - 0.04		
└4	Sulphur	7704-34-9				0.02	0.01 - 0.03		
└4	Tin	7440-31-5				97.195			
└4	Silver	7440-22-4				2.75	0.5 - 5	D / P	
└4	Lead	7439-92-1				0.01	0 - 0.02	D / P / SVHC	Concentration within acceptable GADSL limits [44]
└2	MCON-1.2 CB (Insert Spring)	1394895-1	36361970 / 22	1	0.029				
└3	Copper Nickel		73855529 / 5		0.0288			3.2	No
└4	Copper	7440-50-8				94.775		D	
└4	Nickel	7440-02-0				3.2	2.2 - 4.2	D	Not applicable [34]
└4	Cobalt	7440-48-4				0.2	0 - 0.4	D	
└4	Silicon	7440-21-3				0.725	0.25 - 1.2		
└4	Iron	7439-89-6				0.1	0 - 0.2		
└4	Magnesium (metal)	7439-95-4				0.175	0.05 - 0.3		

Tree Level	Description Article Name Name Substance name	Part/Item No. Item- /Mat.-No. Material-No. CAS No.	IMDS ID / Version	Quantity	Weight [g]	Portion [%]	Portion (from - to) [%]	Classif. GADSL, SVHC	Parts Marking Recyclate (Indust./Consumer) Application [ID]
└4	Manganese	7439-96-5				0.05	0 - 0.1		
└4	Lead	7439-92-1				0.025	0 - 0.05	D / P / SVHC	Concentration within acceptable GADSL limits [44]
└4	Zinc (metal)	7440-66-6				0.5	0 - 1		
└4	Misc., not to declare	system				0.25	0 - 0.5		
└3	e-plate SnAg (electrodeposited Tin-Silver Coatings)		10629288 / 2		0.0002			4.2	No
└4	Carbon	7440-44-0				0.025	0.01 - 0.04		
└4	Sulphur	7704-34-9				0.02	0.01 - 0.03		
└4	Tin	7440-31-5				97.195			
└4	Silver	7440-22-4				2.75	0.5 - 5	D / P	
└4	Lead	7439-92-1				0.01	0 - 0.02	D / P / SVHC	Concentration within acceptable GADSL limits [44]
This is an uncontrolled copy of a document created by IMDS. End of the report.									



# **Section 18**

# **Part Submission Warrant**







## **Section 18a**

# **Bulk Material Requirements**



**Not Applicable**