



Product Change Notification

Current Date: 19-Jun-2024

TE Connectivity

Product Change Notification: PCN-24-212252

Customer: TTI Inc (1305175)

Location: Maisach-gernlinden

PCN Date: 19-JUN-24

Agreement: Agreement Unknown

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).

Product Description: (Text limited to 120 characters)

MSP Male and Female contacts - change of supply chain for plating due to Force Majeur declaration

General Description of Changes

Valued customer, Due to Force Majeur declaration of one of our major plating suppliers, we must release multiple alternative plating locations and suppliers to avoid potential delivery disruptions. In the attachment you will find further information. We hereby inform you about alternative suppliers and insourcing into our internal plating facility. We will move forward with fast track production release for the metal contacts being used as components in our connectors. Supplier and in-house plating have already confirmed the technical feasibility via sample trials or via previous series production releases. The new plating supplier (internal/external) will perform the standard control and quality measures which are performed on individual production batches, which are obligatory to comply with our internal series production and our product specification. - Thickness measurements - optical, dimensional and adhesion tests Minor optical difference may be possible due to different tooling All other process steps during the manufacturing of our products will remain according to our existing releases. The alternative plating supply chain does not change fit, form or function of the product but implies a manufacturing location change. VDA would demand the inspections to be done on the finished goods for a manufacturing location change, due to critical timing we must deviate from this and perform inspections before final assembly of connectors. If you as a customer cannot accept this internal approval process, please raise your concerns immediately. In case we do not receive any information from you till July 5th 2024 we understand this as an approval and can continue to ship products independently of the plating location. TE will proactively contact its main first tier customers who own the product design and integration for deviation approvals prior to shipment. For more information please contact your TE sales or customer service representative. Inspection documentation from alternative suppliers may be shared on request. Background on the insourcing of product to our Adelberg plating facility. For our connectors listed below, we will expand the supply chain of the plated contacts by insourcing this process into our new in-house plating facility in Adelberg in addition to our current plating suppliers. The internal serial production shall start in 2024. Affected Article Numbers and approximate/target effective date you can find in the table below. The insourcing will be operated without part number change, will increase reliability of supply chain, and has no impact on form, fit or function of these products. Background and motivation: With the acquisition of ERNI in September 2021, TE Connectivity decided to invest into a new 3.600 m2 building and plating lines on the properties of the ERNI plant in Adelberg, Germany. The facility expansion enables ERNI to enhance technical capabilities and increase the flexibility and reliability of the supply chain: - Improvement of innovation and optimization capability through proximity to product & process development - Increased capacity & flexibility as well as shortening of lead times through significantly reduced transport routes and the ability to react faster & consistently to changes in the supply chain - Direct influence on product quality and short control loops in close cooperation with quality, stamping and final assembly department on site.

Other attachments:
[Customer Information](#)

Reason for Changes:

Manufacturing location change

PCN Attributes:	
Product Category:	Kind of Change:
Connectors	Location Change
Change Feature:	Potential Customer Impact:
No Feature Change	Additional Location
Remarks:	

Estimated Dates:	
Last Order Date (Obsolete Parts Only):	First Ship Date of Changed Items (Changed Parts Only):
	08-JUL-2024
Last Ship Date of Changed Items (Obsolete Parts Only):	Last Date for Mixed Shipments: (Changed Parts Only):
	No Mixed Shipments
Effectivity Date:	Date of First Samples:

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
144662-E	NO						
144663-E	NO						
144680-E	NO						
214356-E	NO						
214547-E	NO						

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
214551-E	NO						
214912-E	NO						
214915-E	NO						
224512-E	NO						
254877-E	NO						
354175-E	NO						
374954-E	NO						
474192-E	NO						



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Customer: TTI, Inc. (3057778)

Location: Maisach-gernlinden

Agreement: Agreement Unknown

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Location Change

Change Feature:

No Feature Change

Potential Customer Impact:

Additional Location

Remarks:

Estimated Dates:

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First Ship Date of Changed Items (Changed Parts Only):

08-JUL-2024

Last Ship Date of Changed Items (Obsolete Parts Only):

Last Date for Mixed Shipments: (Changed Parts Only):

No Mixed Shipments

Effectivity Date:

Date of First Samples:

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144662-E	NO		ERN144662-E				
144663-E	NO		ERN144663-E				
144680-E	NO		ERN144680-E				
214356-E	NO						
214547-E	NO		ERN214547-E				

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
214551-E	NO		ERN214551-E				
214912-E	NO		ERN214912-E				
214915-E	NO		ERN214915-E				
224512-E	NO		ERN224512-E				
254877-E	NO		ERN254877-E				
374954-E	NO		ERN374954-E				
474192-E	NO						

**Fast Track DMA
response**

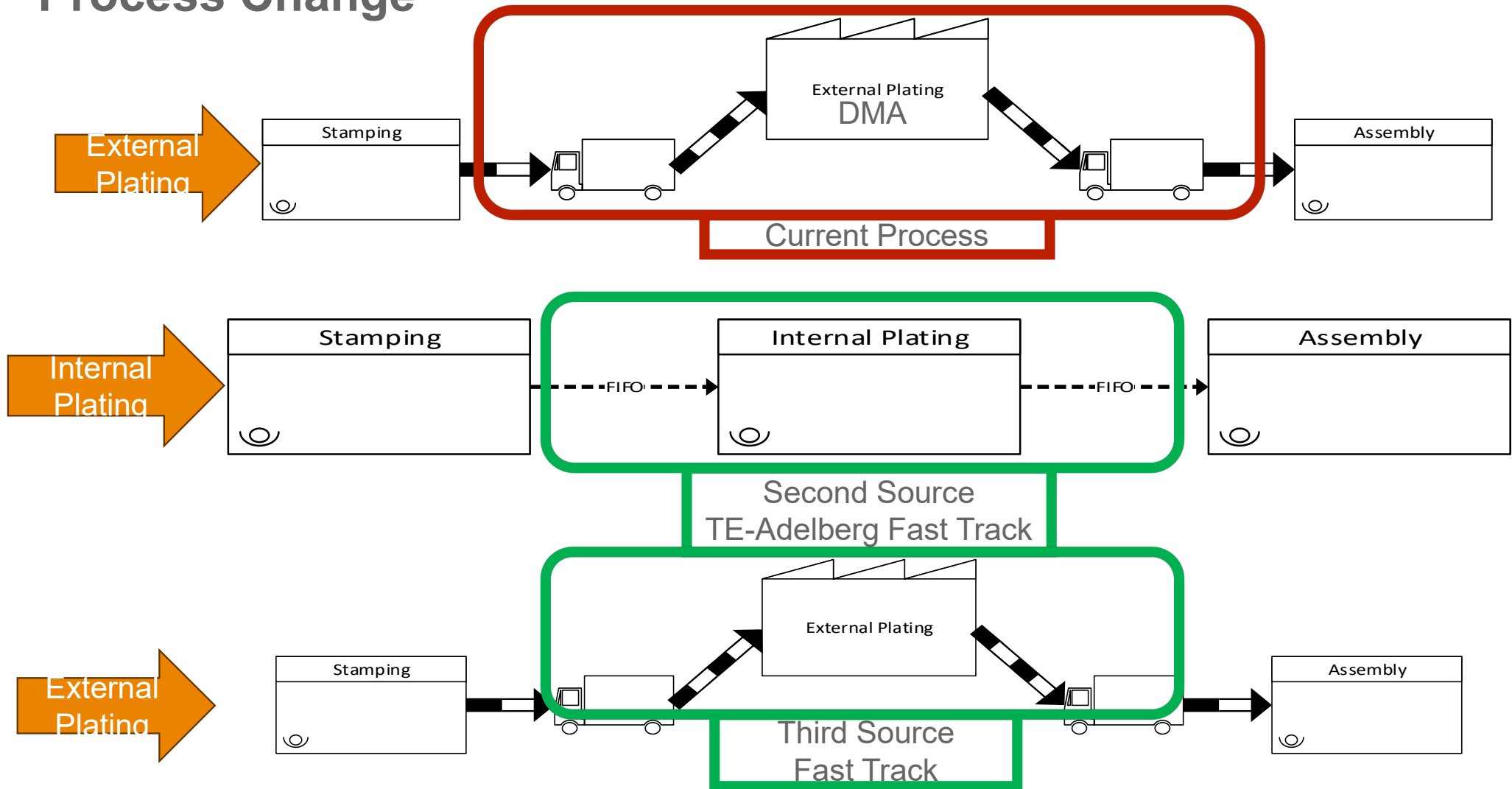
**Alternative plating
suppliers
Internal-External**

New Plating Shop TE-Adelberg

EVERY CONNECTION COUNTS

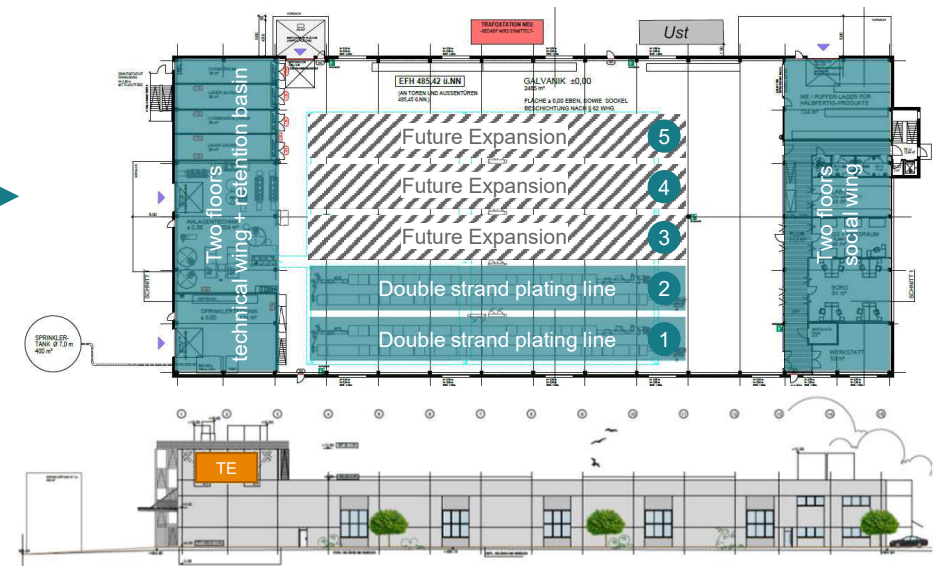
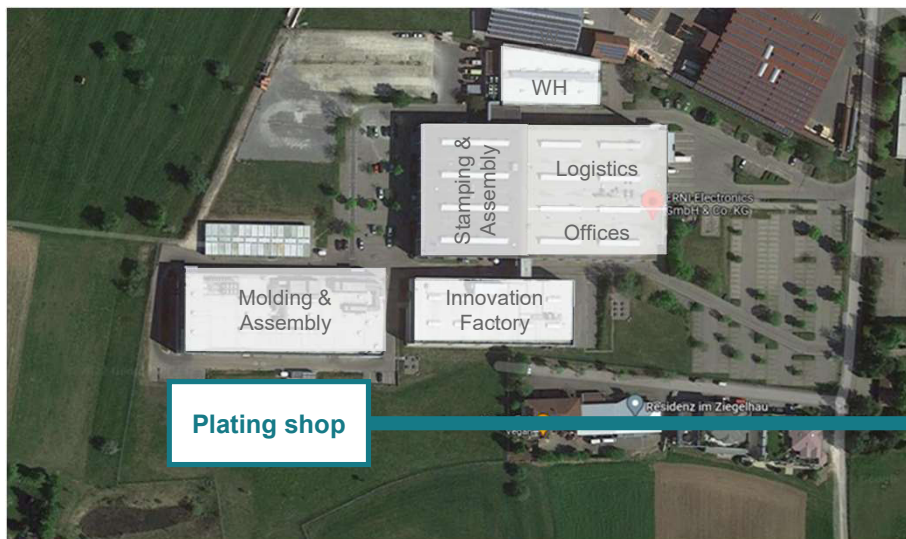


Process Change



TE Adelberg Plating Shop Design

The plating shop is built on a free area in the Adelberg plant and has space for up to five double strand plating lines, of which the first two are part of this project. The 1st line is already installed, the 2nd will arrive in June 24

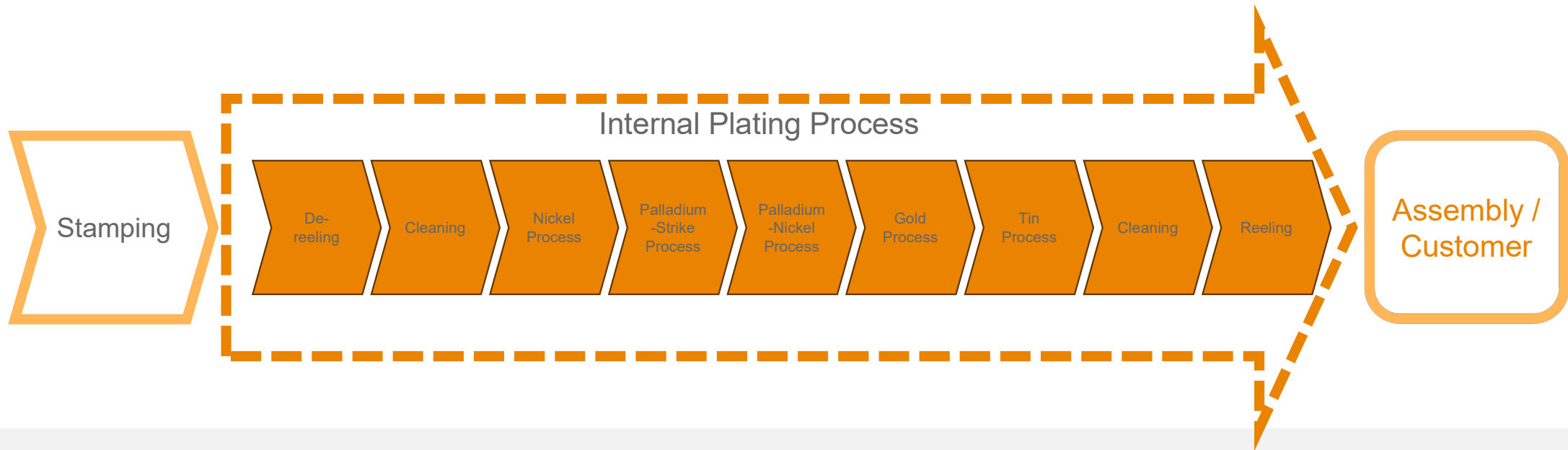


Comment



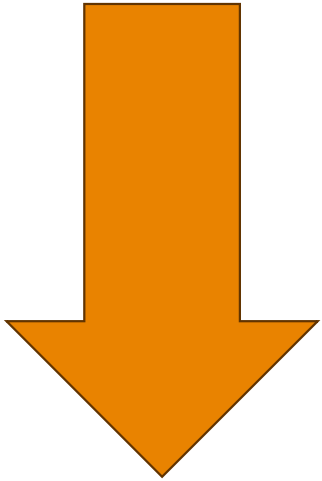
- Building of ~3'600 sqm (90x40m) with sprinkler room, water treatment area, chemical storage rooms, technic room, plating area, in-/outbound area, quality and chemical laboratory, offices, changing-/locker-/restrooms, meeting room, vault, tool shop, fire retention basin
- The design matches TE plating shop requirements and has been designed together with CoE plating (e.g. TE standards for air changeover rates, fire protection, etc.)

TE-Adelberg Line Process



- No product change, same product specifications
- No layer or thickness changes
- Plating line & tooling designed by TE & ERNI CoE plating experts
- Close collaboration and support with/from TE Plating Community

Internal and external Process- and Product release for alternative plating locations for contacts



FAST TRACK RELEASE FOR DELIVERY

1. Layer Thickness Measurements
2. Optical Investigations
3. Dimensional Inspections
4. Adhesion Tests

Risk Assessment

- Loss of production of connectors in final assembly because parts supply is not guaranteed
 - Plating shop TE-Adelberg is the second source to reduce the current risk of one supplier
 - A Third external source is under release to accommodate internal and external total plating capacity.
 - Increased capacity & flexibility as well as shortening of lead times through significantly reduced transport routes and the ability to react faster & consistently to changes in the supply chain
- Plating layers differ from the supplier
 - Plating thickness measurement with XRF (Internal or at supplier)
- Deformation of components due to different plating line and other mechanical components
 - Test assemblies in final production
- Final check in fully automatic Final Assembly
 - High voltage tester (short circle test to detect partials)
 - Inline Camera check (coplanarity, pin position)

**ANY
CONNECTION
CAN CHANGE
THE WORLD**

EVERY CONNECTION COUNTS

