



## PRODUCT CHANGE NOTIFICATION

**PRODUCT CHANGE NOTIFICATION NUMBER:** PC000024

**PCN DATE:** May 19, 2023

This notice is to inform you about the following changes to the listed Stewart Connector products. For any further questions about these changes, please contact your Stewart Connector sales contact, or customer service representative.

**PARTS AFFECTED:**

Current Part Number	Replacement Part Number
SS-6488S-A-NF-01-M07	SS64800-048F
SS-640810S-A-NF	SS-6488S-A-NF

**GENERAL PRODUCT DESCRIPTION:**

Right Angle RJ45 Connectors

**REASON FOR CHANGE:**

Since the Covid-19 pandemic, the world has been working through evolving supply chain issues which have affected many different industries. During this period, Stewart Connector experienced extreme supply constraints on certain key raw materials which affected production lead-times and our ability to confirm orders in a timely fashion. This caused us to re-evaluate our key raw materials and implement alternatives, where possible, to provide more flexibility in the future to help minimize the impact of supply constraints.

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## **DESCRIPTION OF CHANGE:**

### **Change 1 - Contact**

Currently, the signal contacts used in the part numbers listed are produced using a wire drawing process which creates the cross section of the contact by pulling it through a drawing die. Although this is a common process in the metal working industry, it requires special tooling and equipment. This PCN will qualify these connectors to be made with the existing drawn wire contacts that we use today OR contacts created with a more traditional progressive stamping process. The addition of this approved method for producing these contacts will provide flexibility and more options for raw material sources.

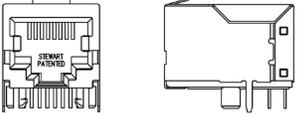
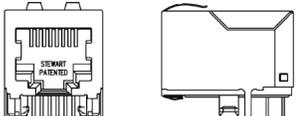
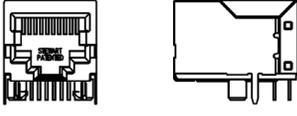
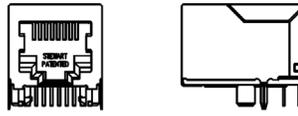
Although the change will affect some internal construction of the contacts and plastic features, it will not cause a visible difference to the contacts externally. It will also not change any of the mechanical or electrical performance specifications of the connector. Below is a table summarizing some of these key contact attributes for the current and new contact construction:

<b><u>Attribute</u></b>	<b><u>Current drawn wire contact</u></b>	<b><u>New stamped contact</u></b>
<b>Contact production method</b>	Drawn wire	Progressive stamping
<b>Contact Material</b>	Phosphor Bronze	Phosphor Bronze
<b>Contact plating - overall</b>	Nickel	Nickel
<b>Contact plating in mating area</b>	Selective Gold – As specified	Selective Gold – As specified
<b>Contact cross-sectional shape</b>	Rectangular	Rectangular
<b>Finished Product Country of Origin</b>	USA	China

### **Change 2 – Shield Style**

The shield used on the connectors will be changed to a different mechanical design which will have a visual difference between the new and old appearance. However, there will be no change to the mechanical or electrical performance of the connector and it will not affect the footprint. The shield style being converted to is an existing style that has been used on similar connectors for many years. Replacement part numbers have been assigned to the updated design.

<u>Attribute</u>	<u>Current Shield</u>	<u>New Shield</u>
<b>Plating</b>	Tin	Tin
<b>Shield Material</b>	Brass	Brass
<b>Shield Construction</b>	Refer to reference images in the table below	
<b>Shield footprint</b>	No change	

<b>Current PN</b>	<b>Current Shield Construction</b>	<b>Replacement PN</b>	<b>Replacement Shield Construction</b>
SS-6488S-A-NF-01-M07		SS64800-048F	
*SS-640810S-A-NF		SS-6488S-A-NF	

\*Note the SS-640810S-A-NF connector has 8 contacts in a 10 position housing. The 10 position RJ45 port is the same size as an 8 position RJ45 port, so the SS-6488S-A-NF 8 contact 8 position connector is a direct replacement.

Full product qualification testing will be completed by product series and can be provided upon request. After approval, either contact construction could be used to produce the finished goods.

**ESTIMATED IMPLEMENTATION SCHEDULE:**

**Sample availability	<u>10/1/2023</u>
Released for production	<u>12/1/2023</u>

\*\* If samples are required, please reference this PCN number on your sample request and place sample orders as soon as possible so materials can be planned.

**SIGNATURE:**



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