

Attn.:

HIROSE ELECTRIC CO., LTD.
5-23, OSAKI 5-CHOME, SHINAGAWA-KU, TOKYO, JAPAN

Notice of Product Change and Request for Your Acknowledgement

Hirose would like to take this opportunity to thank you sincerely for your support, and we hope this letter finds you well and prosperous.

We are writing today to inform you that we will make changes to our products for reasons described below. We sincerely apologize for any inconvenience this may cause.

We request that you kindly offer your consent to this matter.

1	Products Affected	FH19(S) C series connectors with full gold plating * See Attachment 1.
2	Substitute Products	See Attachment 1.
3	Category of Change	Sales discontinuation
4	Description of Change	We will discontinue the sales of the applicable products and switch to substitute products. [Details] See Attachment 2 (comparison document).
5	Reason for Change	To improve the performance to prevent solder wicking.
6	Last date for receiving orders for the current products	April 30, 2018
7	Start date for receiving orders for substitute products	The substitute products are already available for sales.
8	Last day of the shipment of the current products	September 30, 2018
9	Due date for acknowledgement	By October 31, 2017

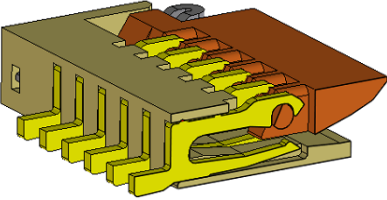
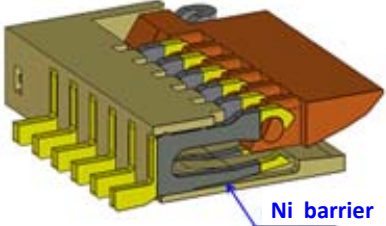
We kindly request that you let a Hirose account representative know you acknowledge this matter by the end of the due date described above. In the absence of a response by this date, please be advised that you will be delivered products that have been changed as described above.

If you should have any questions, please feel free to contact a Hirose account representative. Your understanding and cooperation is highly appreciated.

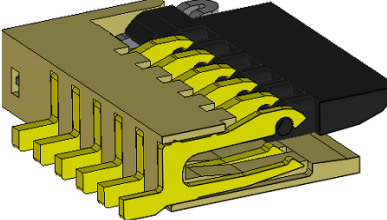
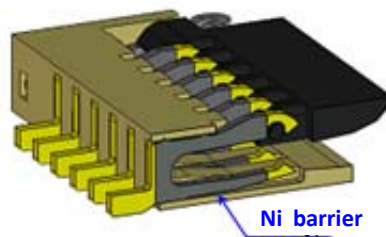
■ List of Products Affected Official Document No.: Business 430-16036_Discontinuation of sales of FH19(S) C series connector with full gold plating

No.	Current Products		Substitute Products		Product Specification	
	Product Code	Product Name	Product Code	Product Name	Current Product	Substitute Product
1	580-0410-1-05	FH19C-4S-0.5SH(05)	580-0410-1-10	FH19C-4S-0.5SH(10)	Terminal with full gold plating	Terminal with nickel barrier with gold plating
2	580-0409-2-05	FH19C-6S-0.5SH(05)	580-0409-2-10	FH19C-6S-0.5SH(10)	Terminal with full gold plating	Terminal with nickel barrier with gold plating
3	580-0411-4-05	FH19C-7S-0.5SH(05)	580-0411-4-10	FH19C-7S-0.5SH(10)	Terminal with full gold plating	Terminal with nickel barrier with gold plating
4	580-0404-9-05	FH19C-8S-0.5SH(05)	580-0404-9-10	FH19C-8S-0.5SH(10)	Terminal with full gold plating	Terminal with nickel barrier with gold plating
5	580-0403-6-05	FH19C-9S-0.5SH(05)	580-0403-6-10	FH19C-9S-0.5SH(10)	Terminal with full gold plating	Terminal with nickel barrier with gold plating
6	580-0412-7-05	FH19C-10S-0.5SH(05)	580-0412-7-10	FH19C-10S-0.5SH(10)	Terminal with full gold plating	Terminal with nickel barrier with gold plating
7	580-0413-0-05	FH19C-12S-0.5SH(05)	580-0413-0-10	FH19C-12S-0.5SH(10)	Terminal with full gold plating	Terminal with nickel barrier with gold plating
8	580-0405-1-05	FH19C-13S-0.5SH(05)	580-0405-1-10	FH19C-13S-0.5SH(10)	Terminal with full gold plating	Terminal with nickel barrier with gold plating
9	580-0406-4-05	FH19C-15S-0.5SH(05)	580-0406-4-10	FH19C-15S-0.5SH(10)	Terminal with full gold plating	Terminal with nickel barrier with gold plating
10	580-0408-0-05	FH19C-17S-0.5SH(05)	580-0408-0-10	FH19C-17S-0.5SH(10)	Terminal with full gold plating	Terminal with nickel barrier with gold plating
11	580-0402-3-05	FH19C-20S-0.5SH(05)	580-0402-3-10	FH19C-20S-0.5SH(10)	Terminal with full gold plating	Terminal with nickel barrier with gold plating
12	580-0407-7-05	FH19C-24S-0.5SH(05)	580-0407-7-10	FH19C-24S-0.5SH(10)	Terminal with full gold plating	Terminal with nickel barrier with gold plating
13	580-0401-0-05	FH19C-27S-0.5SH(05)	580-0401-0-10	FH19C-27S-0.5SH(10)	Terminal with full gold plating	Terminal with nickel barrier with gold plating
14	580-0400-8-05	FH19C-30S-0.5SH(05)	580-0400-8-10	FH19C-30S-0.5SH(10)	Terminal with full gold plating	Terminal with nickel barrier with gold plating
15	580-0416-8-05	FH19C-40S-0.5SH(05)	580-0416-8-10	FH19C-40S-0.5SH(10)	Terminal with full gold plating	Terminal with nickel barrier with gold plating
16	580-0417-0-05	FH19C-50S-0.5SH(05)	580-0417-0-10	FH19C-50S-0.5SH(10)	Terminal with full gold plating	Terminal with nickel barrier with gold plating
17	580-0512-1-05	FH19SC-12S-0.5SH(05)	580-0512-1-09	FH19SC-12S-0.5SH(09)	Terminal with full gold plating	Terminal with nickel barrier with gold plating
18	580-0518-8-05	FH19SC-13S-0.5SH(05)	580-0518-8-09	FH19SC-13S-0.5SH(09)	Terminal with full gold plating	Terminal with nickel barrier with gold plating
19	580-0509-7-05	FH19SC-14S-0.5SH(05)	580-0509-7-09	FH19SC-14S-0.5SH(09)	Terminal with full gold plating	Terminal with nickel barrier with gold plating
20	580-0503-0-05	FH19SC-15S-0.5SH(05)	580-0503-0-09	FH19SC-15S-0.5SH(09)	Terminal with full gold plating	Terminal with nickel barrier with gold plating
21	580-0521-2-05	FH19SC-16S-0.5SH(05)	580-0521-2-09	FH19SC-16S-0.5SH(09)	Terminal with full gold plating	Terminal with nickel barrier with gold plating
22	580-0504-3-05	FH19SC-17S-0.5SH(05)	580-0504-3-09	FH19SC-17S-0.5SH(09)	Terminal with full gold plating	Terminal with nickel barrier with gold plating
23	580-0519-0-05	FH19SC-18S-0.5SH(05)	580-0519-0-09	FH19SC-18S-0.5SH(09)	Terminal with full gold plating	Terminal with nickel barrier with gold plating
24	580-0502-8-05	FH19SC-20S-0.5SH(05)	580-0502-8-09	FH19SC-20S-0.5SH(09)	Terminal with full gold plating	Terminal with nickel barrier with gold plating
25	580-0505-6-05	FH19SC-21S-0.5SH(05)	580-0505-6-09	FH19SC-21S-0.5SH(09)	Terminal with full gold plating	Terminal with nickel barrier with gold plating
26	580-0506-9-05	FH19SC-22S-0.5SH(05)	580-0506-9-09	FH19SC-22S-0.5SH(09)	Terminal with full gold plating	Terminal with nickel barrier with gold plating
27	580-0511-9-05	FH19SC-24S-0.5SH(05)	580-0511-9-09	FH19SC-24S-0.5SH(09)	Terminal with full gold plating	Terminal with nickel barrier with gold plating
28	580-0510-6-05	FH19SC-26S-0.5SH(05)	580-0510-6-09	FH19SC-26S-0.5SH(09)	Terminal with full gold plating	Terminal with nickel barrier with gold plating
29	580-0516-2-05	FH19SC-27S-0.5SH(05)	580-0516-2-09	FH19SC-27S-0.5SH(09)	Terminal with full gold plating	Terminal with nickel barrier with gold plating
30	580-0513-4-05	FH19SC-28S-0.5SH(05)	580-0513-4-09	FH19SC-28S-0.5SH(09)	Terminal with full gold plating	Terminal with nickel barrier with gold plating
31	580-0500-2-05	FH19SC-30S-0.5SH(05)	580-0500-2-09	FH19SC-30S-0.5SH(09)	Terminal with full gold plating	Terminal with nickel barrier with gold plating
32	580-0514-7-05	FH19SC-32S-0.5SH(05)	580-0514-7-09	FH19SC-32S-0.5SH(09)	Terminal with full gold plating	Terminal with nickel barrier with gold plating

*** Differences are indicated in blue.**

Product Name		Current Product	Substitute Product [Solder wicking prevented]		
Product Name		FH19C-**-S-0.5SH(05)	FH19C-**-S-0.5SH(10)		
Product Form	Appearance				
	Individual product form	Same			
	Product height	0.9 mm			
Product Specification	Contact method	Bottom contact			
	FPC thickness	t = 0.2±0.03 mm: Gold plating			
	Material	Insulation case	LCP (beige): UL94V-0 / halogen free		
		Actuator	LCP (brown) UL94V-0 / halogen free		
		Terminal	Material	Same (Material: phosphor bronze)	
			Plating	Full gold plating	Nickel barrier with gold plating
Reinforcing metal fittings	Same (Material: phosphor bronze Plating: tin reflow plating)				
Number of pins		4, 5, 6, 7, 8, 9, 10, 12, 13, 15, 17, 20, 21, 24, 27, 30, 34, 40, 50			

*** Differences are indicated in blue.**

Product Name		Current Product	Substitute Product [Solder wicking prevented]		
Product Name		FH19SC-**-S-0.5SH(05)	FH19SC-**-S-0.5SH(09)		
Product Form	Appearance				
	Individual product form	Same			
	Product height	0.93 mm			
Product Specification	Contact method	Bottom contact			
	FPC thickness	t = 0.3±0.03 mm : Gold plating			
	Material	Insulation case	LCP (beige): UL94V-0 / halogen free		
		Actuator	LCP (black) UL94V-0 / halogen free		
		Terminal	Material	Same (Material: phosphor bronze)	
			Plating	Full gold plating	Nickel barrier with gold plating
Reinforcing metal fittings	Same (Material: phosphor bronze Plating: tin reflow plating)				
Number of pins		12, 13, 14, 15, 16, 17, 18, 20, 21, 22, 24, 26, 27, 28, 30, 32			

Acknowledgement

(Customer -> Hirose Electric business representative)

Notice of Product Change and Request for Your Acknowledgement

We acknowledge the aforementioned matter.

●Customer's name: _____

●Acknowledgement stamp (or signature): _____

HIROSE ELECTRIC CO., LTD.

.....(Cut along this line).....

Document Receipt

(Customer -> Hirose Electric business representative)

Notice of Product Change and Request for Your Acknowledgement

We received the document concerning the above.

●Customer's name: _____

●Acknowledgement stamp (or signature): _____

HIROSE ELECTRIC CO., LTD.