

## President's New Year's Message

I would like to express my deep gratitude to you all for your continued loyal patronage.

Looking back on 2023, it was a year in which we realized the changes to the so-called post-COVID-19 era, as the COVID-19 pandemic, which had a significant impact on our way of life and values, was transferred to Class 5 under the Infectious Diseases Act, and various events, which had previously been restricted, were revived, and traffic in and out of Japan increased. In the domestic economy, the Nikkei Stock Average recovered to the 33,000-yen level in June for the first time in about 33 years, and attention is focused on the future of the Japanese economy for a full-scale post-coronavirus economic recovery.

On the other hand, looking at the worldwide, the situation has become more destabilized and uncertain, with Russia's continued invasion of Ukraine and the outbreak of the Israeli-Hamas conflict. In addition, inflation in Europe and the United States remained at a high level, monetary policy continued to be tightened, and the yen weakened further during the year, reaching the upper half of 151 yen to the dollar at one point due to the widening interest rate gap between Japan and the United States.

Under these circumstances, looking at Fujikura group's financial results, while the effects of intensified competition and declining stay-at-home demand in the Electronics business became apparent in the first half of the year, a tailwind from the weak yen and strong domestic demand in the Power Systems business contributed to an increase in net sales and operating income to 399.1 billion yen and 30.8 billion yen, respectively, compared to the initial plan of 370.0 billion yen and 24.0 billion yen,

respectively. However, the weak yen and strong domestic demand in the energy business helped the company achieve higher sales and profits, with net sales of 399.1 billion yen and operating income of 30.8 billion yen, compared to the initial plan of 370.0 billion yen and 24.0 billion yen, respectively. However, in the second half of the fiscal year, the forecast for the full year was lowered from the initial plan of sales of 770 billion yen/operating income of 60 billion yen to sales of 760 billion yen/operating income of 54 billion yen due to the postponement of investment by U.S. telecommunications carriers caused by BABA (Build America, Buy America) in the Telecommunication Systems business, the intensification of competition in the Electronics business, and the prolonged inventory adjustment in the electronic components market.

Our group will respond quickly and appropriately to these changes in the environment and do our utmost to achieve sustainable growth.

As the CEO of Fujikura Group, I would like to apologize again for causing you a great deal of concern and inconvenience. Based on the analysis of the real cause of this incident, we implemented measures to prevent recurrence, such as clarifying and decentralizing the authority of the CEO and other officers, strengthening the governance of nominations and compensation, strengthening the monitoring of management execution, and developing various regulations.

We will continue to introduce information on the technologies and products of the Fujikura Group through Fujikura News this year, and we look forward to your continued loyal patronage.

President & CEO  
Naoki Okada



## Introduction of JM connectors (Insert arrangement: 2524F) crimp type contact -58 series.

The JM connector is a round connector that is compact and lightweight with a high-density contact arrangement that conforms to JIS C 5432. It is used in various devices such as communication equipment, robots, and control devices.

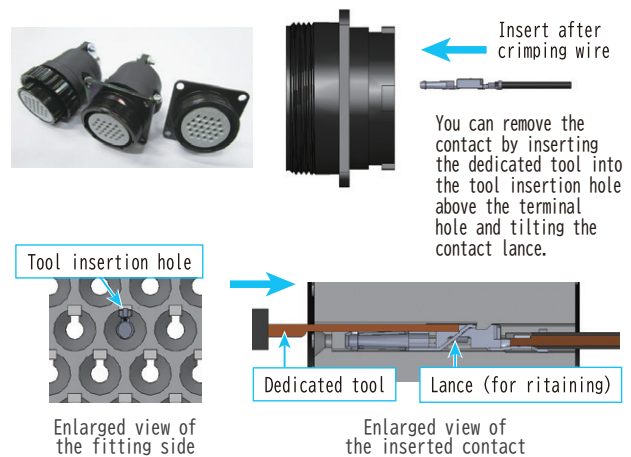
The current connection method for JM connectors is soldering, and when the number of cores is large, soldering requires high skill, needing a long time for connection work. Therefore, we have developed a crimping-type

connector with a multi-core array of 2524F (with 24 female contacts), which is in high demand. The crimping-type contacts can be connected regardless of the skill of the worker because crimping work is performed with a dedicated tool; in addition, the number of man-hours for wiring can be reduced. Even if you insert the contact incorrectly, you can use a special tool to remove and reuse the contact.

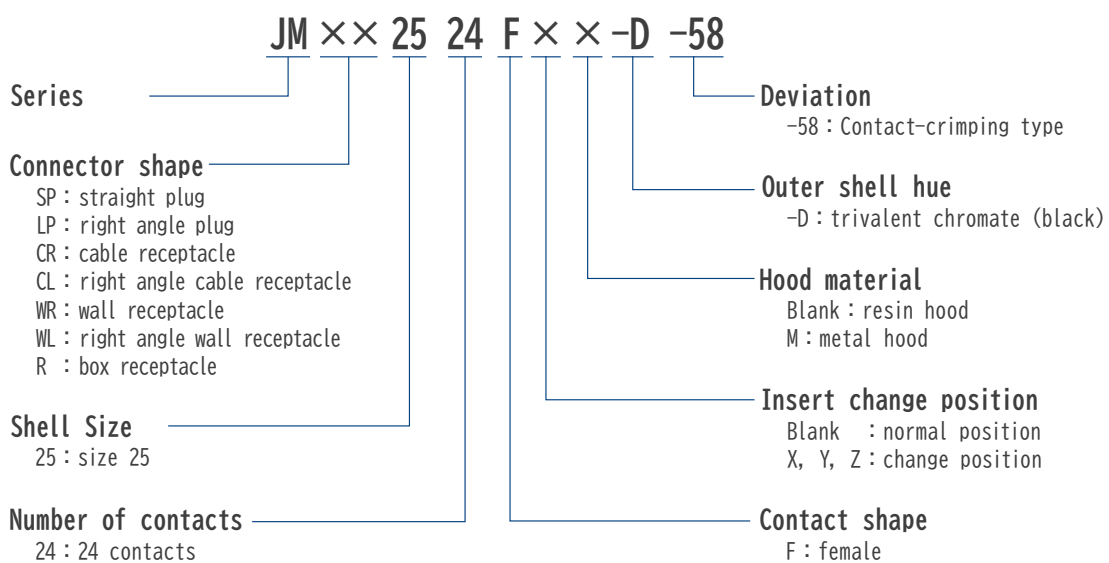
■ Table 1 Product specifications

Contact diameter	1.0mm	
Rated voltage	AC 250V(r.m.s),DC 350V	
Rated current	5 A MAX/pin	
Dielectric withstanding voltage	1,000 VAC (r.m.s.)/minute	
Insulation resistance	1,000 MΩ or more for 500 VDC	
Contact resistance	5 mΩ MAX	
Use temperature range	-25 to 85°C	
Number of fits	500 times	
Connection method	Crimping	
Applicable wire	Core wire size	AWG 20 to 24
	Sheath outer diameter	Φ2.0 MAX

■ Figure 1. Appearance



■ Figure 2 Configuration of product name



### ■ Points relevant to the 17 SDGs

Fujikura will contribute to the further development of industrial equipment by creating and continuously developing new products that meet customer needs for work improvement.



## Exhibition announcement at the 10th WEARABLE EXPO

Fujikura Ltd., and one of our group company, Fujikura Printed Circuits Ltd., will jointly exhibit connectors and FPC-related products at "the 10th WEARABLE EXPO - Wearable Device & Technology Expo" hosted by RX Japan Ltd., the largest trade fair host company in Japan.

Visit our booth to see our connectors and FPCs which main focus on high density, narrow pitch, high-speed transmission, ease of assembly, compact size, and space saving suitable for wearable devices. We offer a wide

range of products, and customized high-quality products to meet your requirement. We look forward to seeing you at our booth.

# WEARABLE EXPO

## Wearable Device & Technology Expo

Date and time	January 24th(Wed) ~ January 26th(Fri), 2024		Place	West Hall 3, Tokyo Big Sight Fujikura booth : W66-66	
	10 : 00~17 : 00				
Exhibitor introduction sites			Official website of the EXPO		
Fujikura Ltd. Exhibitor details			Fujikura Printed Circuits Ltd. Exhibitor details		

### Points relevant to the 17 SDGs

We will contribute to the innovation and development of industrial technologies with continuous development of higher-quality connectors and FPCs suitable for wearable devices.



✉ Connector Division : [ddk.contact@jp.fujikura.com](mailto:ddk.contact@jp.fujikura.com)

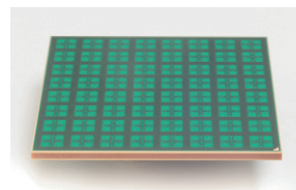
✉ Fujikura Printed Circuits Ltd. : [fpcl.contact@jp.fujikura.com](mailto:fpcl.contact@jp.fujikura.com)

## Announcement of exhibition at the "MWC Barcelona 2024"

Our company will be exhibiting at the mobile industry's largest exhibition, "MWC Barcelona 2024," from February 26 to 29, 2024, in Spain.

Our company booth will display the following two types of millimeter-wave products.

- 28GHz band PAAM (Phased Array Antenna Module) FutureAccess™**  
We will perform a live demonstration of the new Type-C (announced in October last year) with higher power output.
- 60GHz Wireless Communication Module**  
We will perform a live demonstration of ultra-low latency video transmission.  
We look forward to seeing you there.



28GHz PAAM



60GHz Wireless Communication Module

**MWC**  
GSMA

**BARCELONA**  
26 - 29 FEBRUARY 2024

Date and time	February 26th, (Mon) ~ February 29th, (Thu) 2024		Place	Fira Gran Via, Barcelona (Fira de Barcelona) Fujikura Booth: Hall 6, Stand #6F1	

### Points relevant to the 17 SDGs

Millimeter-wave radio modules we have developed achieve high-capacity wireless communications at low cost and power consumption, contributing to the development of a secure and resilient infrastructure.



✉ Electronic Technologies R&D Center : [mmwavetech@jp.fujikura.com](mailto:mmwavetech@jp.fujikura.com)

## Commercialized and started selling fiber lasers with a laser output of 20 kW

Fujikura group are supplying high quality and high reliability fiber lasers to the market, by integrating our optical design and manufacturing technologies such as optical fibers and laser diodes.

Fiber lasers have been rapidly applied to various markets as a laser source for material processing, with output power of commercial products continuously increasing.

We have successfully overcome technical issue such as nonlinear optical phenomena resulting from higher output power, utilizing our optical design technology.

As a result, we have become the first Japanese fiber laser manufacturer to commercialize and sell a 20 kW fiber laser. This new product maintains the high resistance to

reflected light and long-term output stability that are characteristic of our previous models (laser output up to 12 kW). Our 20 kW fiber laser enables the processing of materials with high reflectivity, such as copper plates exceeding 10 mm in thickness, which was previously challenging with our conventional products. This expands the range of applications and improves processing speed and quality.

We will continue to expand our lineup of fiber laser products by developing fiber laser technology.

By promoting the widespread use of fiber lasers, which offer high energy efficiency and excellent environmental performance, we aim to contribute to the development of a sustainable society.



20 kW fiber laser (frame model)

■ Table 1 Product specifications

Output	20000W
Wavelength	1070nm
Core diameter	100 $\mu$ m
Beam quality (BPP)	3.9mm · mrad
Laser output termination	Equivalent to HLC-16 connector
External dimensions (W×D×H)	1157×519×605mm
Fiber length	23m(standard)
Cooling method	Water cooling
Efficiency(DC power to laser output)	Typ.41%

### ■ Points relevant to the 17 SDGs

Our fiber lasers offer more than double the energy efficiency of conventional lasers, resulting in significantly reduced CO<sub>2</sub> emissions through lower power consumption. This contributes to the prevention of global warming and the development of a sustainable society.



✉ Fiber Laser Division : [fiber\\_laser@jp.fujikura.com](mailto:fiber_laser@jp.fujikura.com)

## Announcement of Fujikura Technical Review

We have released Fujikura Technical Review No. 53 (FTR 53). Please take a moment to check it.

Fujikura Technical Review  
<https://www.fujikura.co.jp/eng/rd/gihou/>

