

We will be exhibiting at CEATEC2023

We will be exhibiting at CEATEC 2023, which will be held in Makuhari Messe, Chiba, Japan from October 17th to 20th.
This year's CEATEC will be held under the theme of "Aiming to realize Society 5.0, which balances economic development with solutions to social issues, bringing together technology, information, and people from all industries and business sectors to envision the future through 'co-creation'".

In the Fujikura booth, we will have an introduction on what kind of "the Near-Future society" that Fujikura will create, and how will our "Tsunagu" technology contribute to it, from the perspective of information and communications and carbon neutrality, based on the concept of "Connecting the Near-Future with Fujikura's 'Tsunagu' technology"

How will Fujikura "connect" the near future society?
Please come and check it out. We are looking forward to your visit.



CEATEC Exhibition Concept

Connecting the Near-Future with Fujikura's "Tsunagu" Technology
: Contributing to "Information Communications" and "Carbon Neutrality"

What is the CO₂-free power generation realized by the High-temperature Superconductivity?

Are you sure there's a cable to innovate EV charging?

What is millimeter wave communication?

What are the secrets of optical cables and electronic components essential to the digital society?

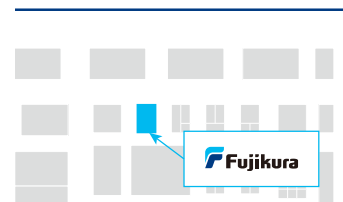
How do humans and cars connect each other?



Date and Time October 17 (Tue.) to October 20 (Fri.), 2023
10 : 00 - 17 : 00

Place Makuhari Messe HALL5 Key Device Area
Fujikura booth : K005

HALL5 Key Device Area



Register here

CEATEC2023 Fujikura Special Web Page

CEATEC official website
<https://www.ceatec.com/en/>



<https://www.ceatec.com/en/exhibition/detail.html?id=112>



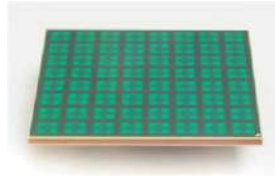
Exhibited product 01

Contribution to information communications

Millimeter Wave Wireless Communication Module

We will exhibit 28 GHz Phased Array Antenna Module (PAAM) "FutureAccess™" and the 60 GHz millimeter-wave wireless communication module. Our modules which integrate RFICs and antennas are more power efficient than currently used wireless devices.

Our modules make it possible to introduce high speed broadband wireless communication with little effort and contribute to reduce power consumption.



28GHz PAAM



60GHz wireless communication module

Millimeter wave wireless communication module special site
<https://mmwavetech.fujikura.jp/>



Points that fall under the SDGs 17 targets

Millimeter-wave wireless communication modules developed by our company enable high-capacity wireless communications at low cost and power consumption, contributing to the development of a secure and resilient infrastructure.



✉ R & D Center for Electronic Application Technology : mmwavetec@jp.fujikura.com

Exhibited product 02

Contribution to information communications

MDC/MMC Optical Wiring Solutions for Data Centers

We are developing "Solution Products" that employ next-generation very small form-factor (VSFF) MDC duplex optical connectors and MMC multiplex optical connectors.

In our booth, we will introduce patch cords, patch panels, and optical connector cleaners that incorporate MDC and MMC optical connectors.



Optical components and solutions including MDCs and MMC optical connectors Special website

<https://www.opticalcomponent.fujikura.com/>



Points that fall under the SDGs 17 targets

Our company will support the construction of next-generation optical fiber networks through its next-generation ultra-compact optical connector technology and optical cabling solutions, contributing to the development of the social infrastructure that is the foundation of industry and life around the world.



✉ Optical Component Division : opticalcomponents@jp.fujikura.com

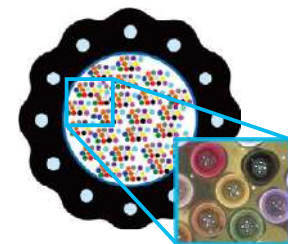
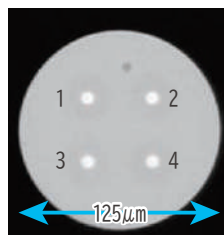
Exhibited product 03

Contribution to information communications

Multi-core Fiber Cable

Multicore fiber (MCF) technology is growing attention as demand for high-density fiber-optic cables grows, which consists of multiple cores in a single fiber.

We will demonstrate ultra-high dense cable using four-core MCF with standard cladding diameter of 125 μm. In addition, we introduce a 32-core-fiber which pursues densification for future technology.



Cross-sectional photograph of the four-core multicore fiber and the implemented cable

Points that fall under the SDGs 17 targets

The evolution of optical fibers contributes to the increase of network capacity and supports the background of information and communications infrastructure.



✉ R & D Center for Optical Technology : wwwadmin@jp.fujikura.com

Exhibited product 04

Contribution to information communications

Fine Diameter High Density Optical Fiber Cable

In recent years, a higher-density of optical fiber cable is needed in order to cope with the explosive increase in data communication traffic due to the development of 5G, IoT, and generative AI.

In our booth, we will exhibit small-diameter and high-density optical fiber cable composed of thousands of optical fibers in a cable, which enable large-capacity transmission.

Our small diameter high density optical fiber cable is one of the world's largest high-density packaging cables realized by providing the ultimate cable structure so called spider-web-ribbon®. Thanks to the spider-web ribbon®, our optical cable achieves a large number of fibers, smaller diameter, and lighter weight. We will contribute to the construction of the "IOWN" initiative for next-generation communications infrastructure.



Points that fall under the SDGs 17 targets

Cables that utilize our company's unique technology will contribute to the development of a safe and resilient infrastructure in response to 5G advances and increased network capacity. We will also fulfill our responsibility to build by using environmentally friendly components.



✉ Solutions Sales Technology Department : telcon@jp.fujikura.com

Exhibited product 05

Contribution to information communications

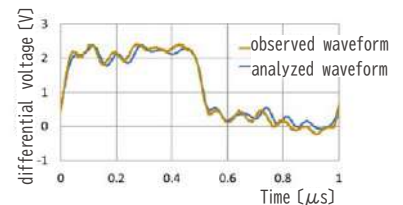
High-speed Communication Wire Harness for Automobiles

The next generation of automobiles, called CASE, is undergoing rapid innovations in electrification, autonomous driving, and connectivity. The communication speed required for in-vehicle electronics is increasing year by year, and high-speed communication protocols such as CAN FD and Ethernet are being adopted.

In our booth, we will introduce advanced cables and simulation technologies for high-speed communication.



STP* cables
*Shielded Twisted Pair



Comparison of analyzed and observed waveforms

Points that fall under the SDGs 17 targets

Our company's high-speed communications products enable high-speed in-car communications and contribute to the improvement of autonomous driving levels.



✉ Automotive Electrical Technology Division : wwwadmin@jp.fujikura.com

Exhibited product 06

Contribution to information communications

Advanced Electronic Components

Recently, electronic components are becoming smaller and more sophisticated.

In our booth, we will introduce flexible printed circuit boards (FPCs), connectors, membranes, electronic wires, thermal solutions, and other solutions used in data centers, mobile products, and automotive equipment.

We will respond to customer's demands of high density, high definition, and multiple functions with advanced technologies, and contribute to your creation for the cutting-edge applications.



Membrane Products (Capacitive Switches)



thermal solution

Points that fall under the SDGs 17 targets

We will contribute to the further development of the information and communications infrastructure by enhancing the performance of electronic components that support information terminal equipment and information storage equipment.



✉ Electronic Components & Connectors Division : askecd@jp.fujikura.com

Contribution to carbon neutrality

Exhibited product 07

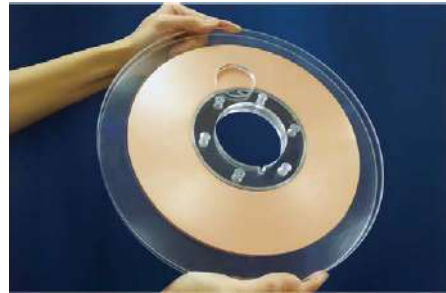
High Temperature Superconducting Tapes

As a frontrunner in the industry, we have been developing rare-earth-based high temperature superconductors for more than 20 years.

High temperature superconductors can be applicable at the liquid nitrogen temperature, and their application range is expanding.

As countries around the world move toward carbon neutrality, superconducting applications such as fusion power generation, electric aircraft, and medical MRI (nuclear magnetic resonance imaging) equipment are being focused.

We will introduce the potential of high temperature superconductors for a carbon-neutral society through exhibits and demonstrations.



Points that fall under the SDGs 17 targets

Our high temperature superconducting technology will contribute to the development of equipment for carbon neutrality, and medical equipment for human health.



✉ Superconducting Business Promotion Office : asc-sc@jp.fujikura.com

Contribution to carbon neutrality

Exhibited product 08

Liquid-Cooled Charging Cable and Connector for Electric Vehicles

Recently, there is strong demand to increase battery storage capacity and reduce battery charging time in Electric Vehicles (EVs) through fast charging options. In this regard, Fujikura have developed and released the liquid-cooled fast charging cable and connector. This innovative product is applicable to increase the rated charging current more than three times by using liquid cooling technology, as compared to the conventional natural cooled models. The aforesaid liquid cooling technology based on forced convection will help to address overheating issues owing to high amperage current flow during fast charging by direct pumping of the coolant in the cable and connector. Fujikura also made it the suitable size and weight by the liquid cooled system then it can make the stress-free connectivity between charger and EV inlet port. At Fujikura booth, you will be able to experience the operation of the liquid-cooled fast charging cable and connector in the demonstration.



Points that fall under the SDGs 17 targets

The liquid-cooled cable and connector developed by Fujikura will contribute to the progress in EVs and the realization of a decarbonized society.



✉ Automotive Electrical System Development Division : wwwadmin@jp.fujikura.com