

FITEL for the Future



At the dawning of the advanced information society of the 21st century, Furukawa Electric has positioned itself as one of the world's leading multimedia companies. The Company intends to make the fullest use of the technical and creative strength it has developed in over 100 years of operations to further contribute to society and move toward a harmonious coexistence with the environment. Furukawa Electric looks forward to the challenges of the future—a future alive with possibilities.

Erbium-Doped Fiber Amplifier (ErFA Series)

1528 - 1565 nm (C-band) and 1570 - 1605 nm (L-band)

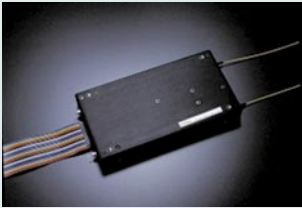
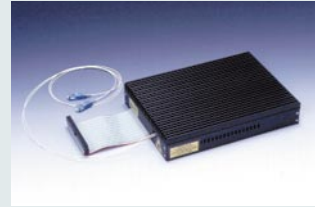
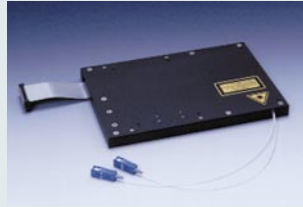
High power up to 1.5 W

980 nm and 1480 nm pumps as well as hybrid pump to provide low noise and high power

Excellent gain flatness for WDM applications with gain flatten filter

Desktop, gain block with or without control circuit and single to multiple pump laser scheme

Analog control circuit with parallel or serial interface, or microprocessor-based software control circuit



PLC Splitter



PS201 series of Planer Lightwaveguide Circuit (PLC) type star coupler modules
For optical signal multiplexer, Passive Optical Networks (PONs) and signal distribution systems

Available ports types:

1x4 1x8 1x16 2x4 2x8 2x16 1x16x2 2x16x2 1x8x4 1x32

Fused Taper Coupler



DC101

Splitter, 50:50 to 1:99 at 980 nm to 1600 nm certain operating band

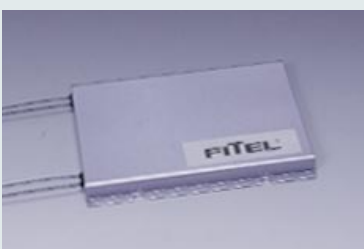
DW101

WDM coupler, 980/1550 nm, 1300/1550 nm

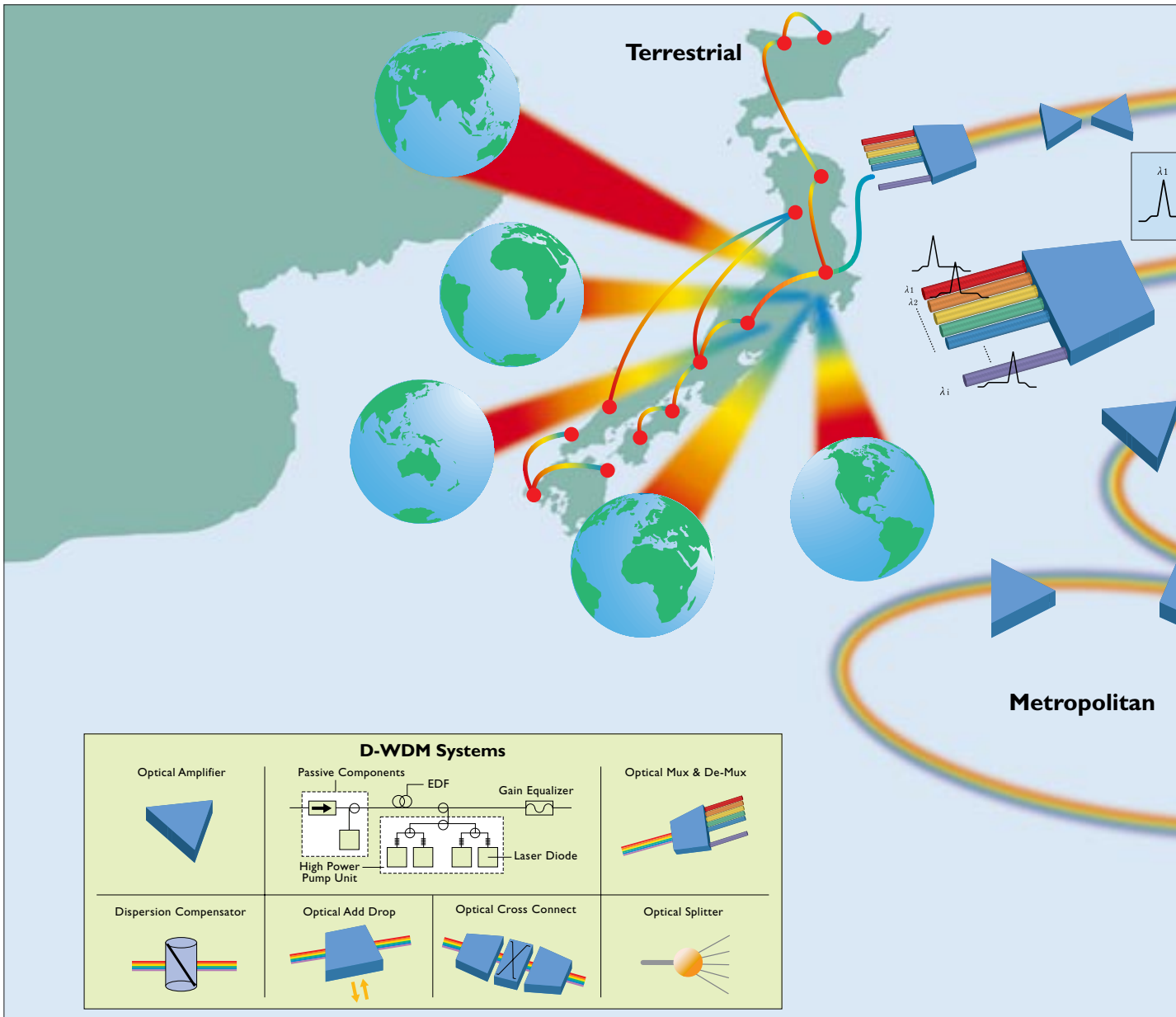
Available ports types: 1x2 2x2

Types of optical fiber: 250mm, 900mm 2mmø cord

Optical Add-Drop Multiplexer with FBG



Add drop signals on any wavelengths
Composed of Fiber Bragg Grating (FBG)
and optical circulator



High Power Pumping Unit (HPU)

Pumping light source for wideband & high-power EDFA and Raman amplifiers



500mW to 1500mW with 2 to 16 LD wavelength and polarization multiplexing

Dispersion Compensating Fiber

PDC series

Positive dispersion fiber module with specially coiled single mode fiber



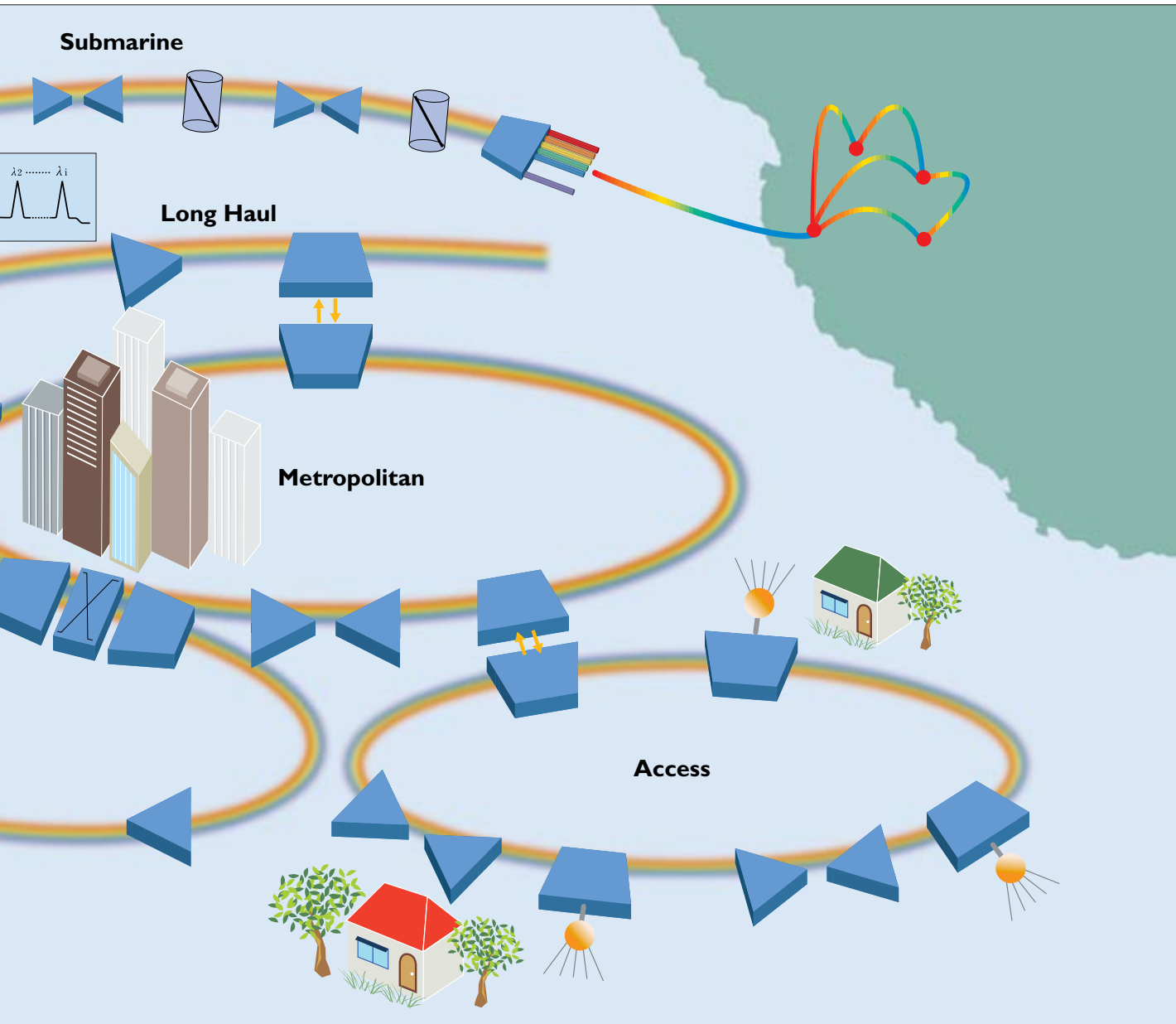
AWG and Optical Mux and De-Mux with AWG



Arrayed Waveguide Grating (AWG)
16ch to 64ch with 50GHz, 100GHz, 200GHz spacing
Low insertion loss with 8.5mm small height module size

OMX series

Optical multiplexer and de-multiplexer module using AWG with control circuit and monitor function



1480nm Laser Diode

250mW operating power
 Built in isolator optional
 PM fiber optional
 FBG stabilized optional
 Wavelength from 1400 nm to 1500 nm optional (Rainbow Pump)
 14pin cooled package
 Uncooled coaxial package (20mW to 30mW)

980nm Laser Diode

150mW operating power
 Highly reliable chip
 FBG stabilized optional
 14pin cooled package
 Uncooled coaxial package (20mW to 30mW)

Uncooled Signal Source

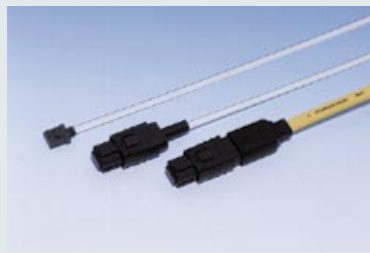
1310 nm FP-Laser
 1310 nm DFB-Laser
 1550 nm DFB-Laser
 Coaxial package
 Receptacle-core package

MT-RJ Connector



New generation optical connector for optical LAN system and telecommunication applications (FTTH systems)
Small and high density
750µm pitch, mini MT2 connector application
Simple and low cost

MPO Connector



MT ferrules designed for 2, 4, 8, or 12 fibers with 250µm pitch
Push-on / Pull-off latching connection
8° angled polishing to realize high return loss
Compact and low cost

Optical Fiber SM332G



Matched cladding design single mode fiber with a coating of 250µm mechanically strippable acrylate
Applicable for all types of optical cables, including loose tube, ribbon, and slotted core design

Fusion Splicers

SI75 Series Direct Core Monitoring and Aligning Fusion Splicer
Fastest splicing in the industry
Automatically analyzes the fiber type from SM, MM and DS and loads the suitable splicer program

SI82 Series Production Line Fusion Splicer
Specially designed for assembly line purposes
High strength splicing and specialty fiber splicing

SI99 Series Splicer
Very compact and lightweight, ideal for installation fields
Operates for single fiber and 2 to 12-fiber ribbons—runs on a slot-in battery or AC adapter

SI48L Compact Fusion Splicer
Lowest price targeted for multimode fiber splices



Splice Preparation Tools



Optical fiber strippers, cleavers, protection sleeve heaters, ribbon forming tools and tool kits containing all the necessary tools and consumables

S323 High Precision Cleaver automatically deposits wasted fibers into a collection chamber

S218 Hot Stripper runs on a compact slot-in battery for single fiber and 2 to 12-fiber ribbons

A MESSAGE FOR YOU



Junnosuke Furukawa
President

Steadily expanding worldwide communication networks have created an environment that touches all of our lives. At work or at home, we can now readily exchange information with people all over the world. This multimedia age promises to bring change after change to the way we do business and the way we live our lives. The advent of the advanced information society means that optical communications will become increasingly important as a medium used to bring valuable information to everyone.

Furukawa Electric will continue to take advantage of its decades of experience in the field of data communications. Widely recognized for excellence in optical fiber and cable, and such components and systems as optical devices, wavelength division multiplexing (WDM), networking technology (LAN and WAN), and cable TV, the Company has won the trust of users for its achievements in research and development, manufacturing, and product quality. Furukawa Electric intends to continue to advance in all these areas to contribute to the development of a truly prosperous society in the 21st century.

THE FURUKAWA ELECTRIC CO., LTD.

HEAD OFFICE

6-1, Marunouchi 2-chome,
Chiyoda-ku, Tokyo 100-8322, Japan

FOUNDED

1884, reorganized 1920

CAPITAL

¥56,600,000,000

NO. OF EMPLOYEES

9,300

MAJOR BUSINESS ITEMS

Bare wires, power cables, insulated wires, electronics, magnet wires, electronic wire materials, communication cables, optical fiber cables, optical fiber systems, network equipment, information systems, plastic application products, thermal and electric material products, electronics mounted products, automotive parts, rolled copper products, aluminum products, special metal materials, shape memory alloys, aluminum products, special metal products, superconductive products, memory disc materials, various construction works

BUSINESS NETWORK

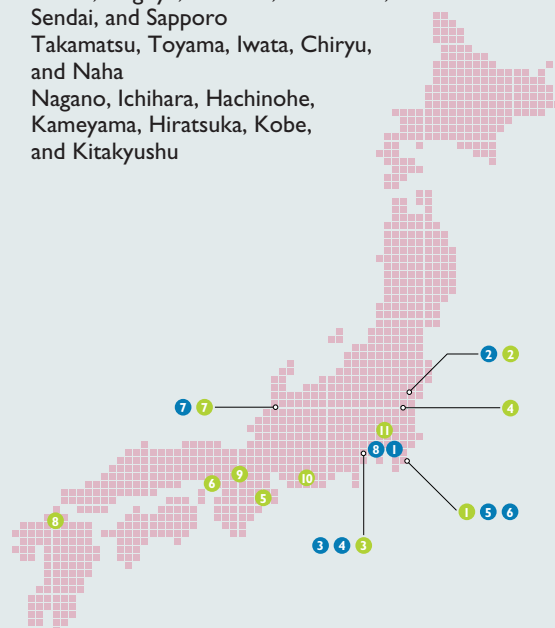
Branch Offices: Osaka, Nagoya, Fukuoka, Hiroshima, Sendai, and Sapporo
Branches: Takamatsu, Toyama, Iwata, Chiryu, and Naha
Sales Offices: Nagano, Ichihara, Hachinohe, Kameyama, Hiratsuka, Kobe, and Kitakyushu

RESEARCH LABORATORIES

- 1 Yokohama R&D Laboratories
- 2 Metal Research Center (Nikko)
- 3 Hiratsuka Research Laboratory
- 4 Information & Electronics Laboratory (Hiratsuka)
- 5 Chiba Research Laboratory
- 6 Opto-technology Laboratory (Chiba)
- 7 Fukui Research Laboratory
- 8 Automotive Technology Center (Yokohama)

WORKS

- 1 Chiba
- 2 Nikko
- 3 Hiratsuka
- 4 Oyama
- 5 Mie
- 6 Osaka
- 7 Fukui
- 8 Kyushu
- 9 Shiga
- 10 Kambara
- 11 Shinagawa



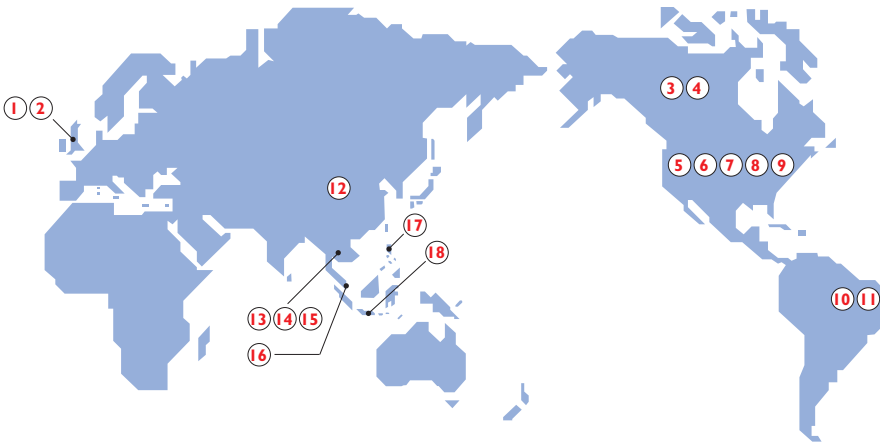


FITEL[®] brand was launched in 1974 by Furukawa Electric, already known as a pioneer in the development of optical fiber cable, for the marketing of optical communications products. The FITEL brand is now used by Furukawa affiliates in optical communication businesses worldwide.

AN EXPANDING OVERSEAS NETWORK

FURUKAWA has 50 subsidiaries and related companies in 16 countries worldwide, including the United States, China and ASEAN region. We are able to contribute to the telecommunications business on a world scale with these networks.

OVERSEAS NETWORK OF TELECOMMUNICATIONS



- ① Europtics Limited (UK)
- ② Furukawa Electric Europe Ltd. (UK)
- ③ Phillips-Fitel Inc. (Canada)
- ④ JDS Uniphase Corporation (Canada)
- ⑤ FiNet Technologies (USA)
- ⑥ Fitel Lucent Technologies (USA)
- ⑦ Optical Communication Products Inc. (USA)
- ⑧ Furukawa Electric North America Inc. (USA)
- ⑨ Furukawa Electric Technologies Inc. (USA)
- ⑩ Furukawa Empreendimentos Engenharia E Construcoes Ltda (Brazil)
- ⑪ Furukawa Industrial S.A. Produtos Eletricos (Brazil)
- ⑫ Shianfu Optical Fiber & Cables Co., Ltd. (China)
- ⑬ Bangkok Telecom Co., Ltd. (Thailand)
- ⑭ Thai Fiber Optics Co., Ltd. (Thailand)
- ⑮ Thai Furukawa Unicom Construction Co., Ltd. (Thailand)
- ⑯ Furukawa Electric Singapore Pte. Ltd.
- ⑰ C.M. Furukawa Philippines Inc.
- ⑱ P.T. Asiabumi Furukawa (Indonesia)

DIRECTORY

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E-mail: comsales@ho.furukawa.co.jp



Head Office

OVERSEAS SALES OFFICES

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London W11 3FE U.K.
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Fax: 44-171-313-5310
<http://www.furukawa-fitel.co.uk>
E-mail: sales@furukawa-fitel.co.uk

Furukawa Electric Singapore Pte. Ltd. (FES)

10 Anson Road, #25-07/08,
International Plaza, Singapore 079903
Telephone: 65-224-4686
Fax: 65-224-2362