

FISO
FURUKAWA INDUSTRIAL SYSTEM



**Innovation, reliability
and agility for your
manufacture.**

 **FURUKAWA
ELECTRIC**

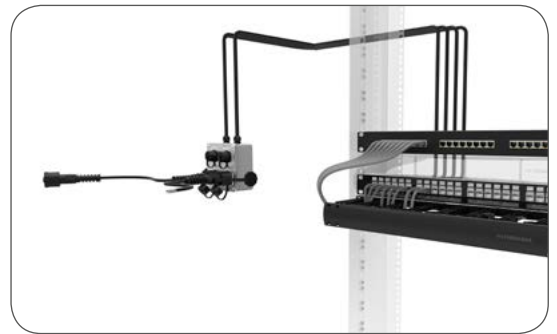
Furukawa Industrial System

A variety of high quality and reliable products for Industry 4.0 networks.



The Furukawa FIS line is ideal for application in critical environments, such as your manufacturing plant. It optimizes the industrial communication as well as AT and IT infrastructure. Robust optical and twisted pair cabling systems, which meets the strictest standards for the structured cabling performance in critical environments: **ISO and ANSI/TIA**. Products with **IP67** protection class that withstand **adverse conditions of dust, humidity, exposure to chemical products, high temperatures, vibration, impact and electromagnetic interferences**.

Safe and reliable data transmission, which extends life span of connectivity infrastructure and reduces operational costs.



- ✓ Products with IP67 protection class;
- ✓ LSZH cables;
- ✓ TPU or PVC cover 105 °C;
- ✓ Products for DIN rail installation.

Industrial Connectivity



End-to-end Cabling



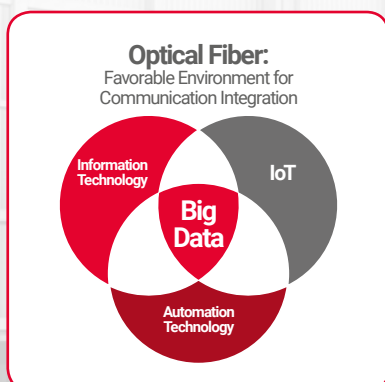
Industrial Laserway



The products from FIS line enables integration between networks based on these protocols:

- | | | | | | |
|------------|---------------|------------|--------------|------------|----------|
| ✓ Modbus | ✓ Hart | ✓ Profibus | ✓ Controlnet | ✓ CAN | ✓ ASI |
| ✓ Ethercat | ✓ Ethernet IP | ✓ Profinet | ✓ Devicenet | ✓ CAN Open | ✓ OPC UA |

Why should I use optical fiber in industry?

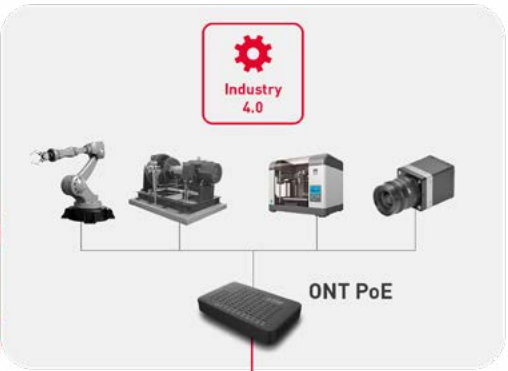
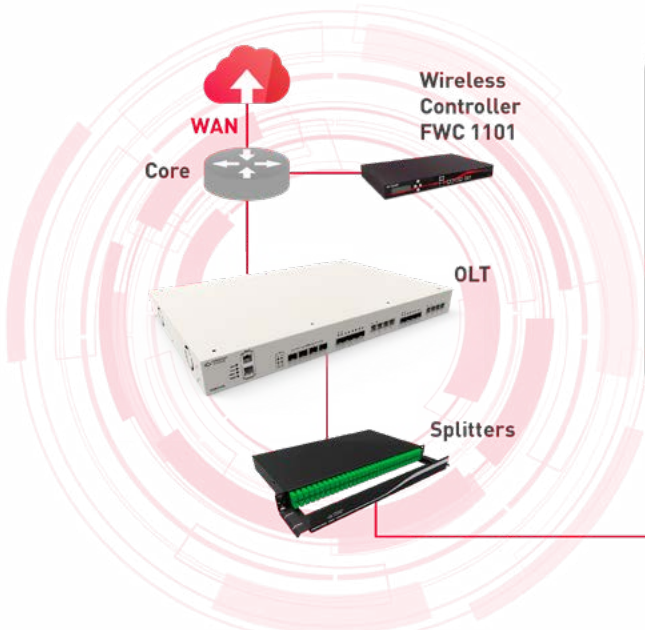


DID YOU KNOW?

The life span of your industry's physical layer is larger than 20 years. Choose your partner wisely. Select the partner for this solution responsibly.

Please check Industrial Laserway solution

I Savings, control and convergence for your manufactory.



DID YOU KNOW?
That Laserway reduces network installation time by 25%!

I Laserway's Advantages solution:

Innovation and Technology
Fully Optical Structured Cabling Network

Efficient and Sustainable Network
Reduction of Power Consumption
Optimization of Infrastructure

Future-proof Technology
Optical Infrastructure with Capacity of Terabits per Second (Tbps)

Flexible infrastructure
Easy to maneuver and expand the network

Logical and Physical Security
Natively Encrypted Carrier
Reliability Standard
Electromagnetic Immunity

Optimized Operation
Centralized Control
High Availability

Your network unloaded and more sustainable!
Duct occupation simulation:

| | |
|--|---|
| | Traditional Network 240 cables CAT.6 Every 100 m = 960 kg |
| | Laserway Network – Horizontal Cabling 60 cables FiberLan 02 Optical Fibers 84% lower occupation Every 100 m = 114 kg (88% reduction) |
| | Laserway Network – Distribution Cabling 10 cables FiberLan 12 Optical Fibers 95% lower occupation Every 100 m = 40 kg (95% reduction) |

Furukawa industrial solution is already present in:

- STEEL MILLS**
- SUBWAY**
- AGRIBUSINESS**
- MINING**
- AUTOMAKERS**
- METALLURGICAL COMPANIES**




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