

# Furukawa Broadband System

**Quick  
Activation**  
Optimization of  
**CAPEX/OPEX**  
**Future  
Proof**  
**Reliable  
Flexible**

**Connectivity solutions  
for FTTx Networks**

# Fiber Optic Cables

## Standard Monotube Cable

- Outdoor all-dielectric cable mainly used in duct installation (HDPE Tubes) and installed by cable pulling;
- Up to 12 fibers.

## Standard Duct Cable

- Outdoor all-dielectric cable mainly used in duct installation (HDPE Tubes) and installed by cable blowing or pulling;
- Up to 144 fibers.

## All-Dielectric Self-Supported Cable

- Installation environment: outdoor;
- Operation environment: aerial self-supporting;
- Up to 144 fibers.

## Standard Light Armour Cable

- Outdoor metallic cable mainly used for direct burial and for duct installation by cable pulling;
- The corrugated steel tape provides ideal protection against rodents;
- Up to 48 fibers.

# FTTx Full Service

The optical fiber solution that optimizes medium and long term investments.

Preliminary network design with engineering support

Complete portfolio of outdoor and indoor networks

End-to-end support focused on your business needs



10 years network warranty

Local production and support

ConsciousMAP Software for active and passive management

# Did you know that Furukawa offers a full end-to-end solution?

High technology, flexibility and local support!

## GPON Optical Line Terminal (OLT)

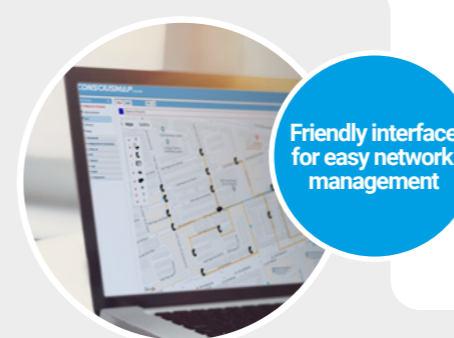
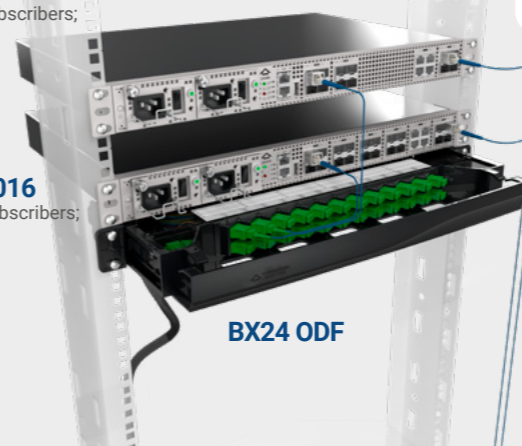
- Layer 3 capabilities;
- Redundancy;
- Modular chassis;
- Compact design.

### OLT LD3008

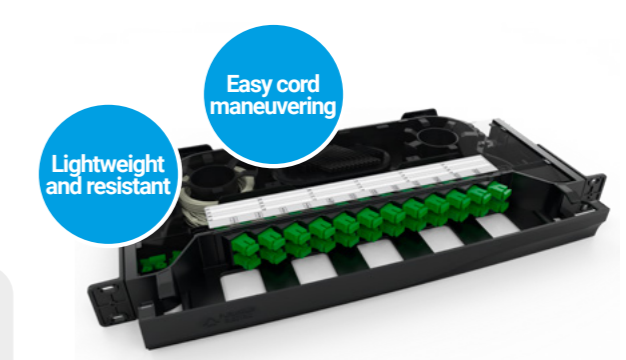
- 1,024 subscribers;
- 1U rack.

### OLT LD3016

- 2,048 subscribers;
- 1U rack.



Friendly interface for easy network management



Lightweight and resistant

Easy cord maneuvering

## Management Software

Continuous and oriented support to customers for mapping and provisioning of FTTx networks.

- Network management;
- Remote configuration of ONTs;
- Control of bandwidth consumption;
- A tool that enables control of the physical network and allows easy planning of extensions and new subscribers.

## BX24 ODF

- Compact and reversible;
- Easy fiber and pigtail management;
- Supports SC and LC adapters;
- Supports side and rear cable access.

# EZ!Star

The EZ!Star solution is intended for outdoor residential network architecture (FTTH). With factory pre-terminated systems, it offers easy installation, quick activation and flexibility upon expansion.

## On-Demand Solution (FTTH)

EZ!Star delivers a FTTH network with optimized initial deployment investments (CAPEX).

## DID YOU KNOW...

That global fixed broadband subscribers continues rapid growth, expected to hit 1.2 billion by 2025?

Source: Broadband Forum  
(<https://www.broadband-forum.org/>)

**1** Optical Fiber Compact Distribution Cable Pre-terminated on both ends



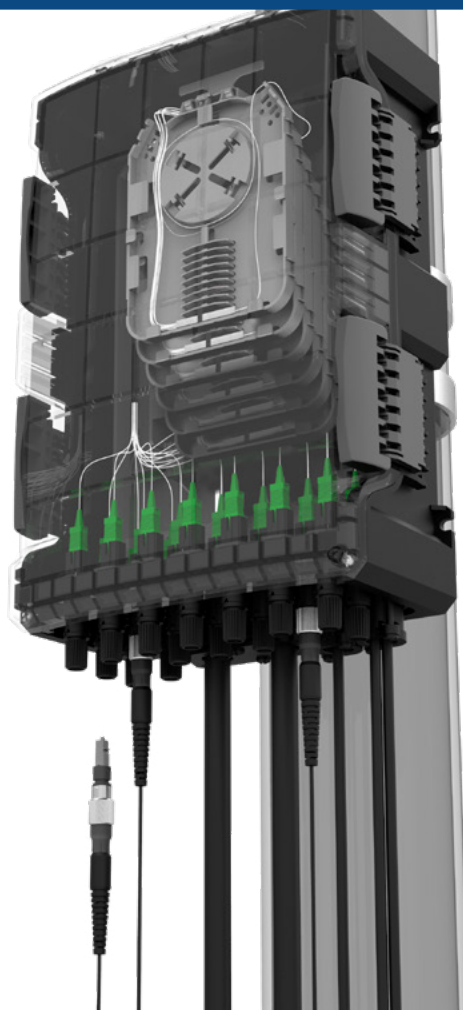
**2** 1<sup>st</sup> Splitter Level Distribution Box - FK-CTOP-16P

**3** 2<sup>nd</sup> Splitter Level Termination Box - FK-CTOP-L9



# PLUG & PLAY

**4** 01 Optical Fiber Low Friction Drop Cable Pre-terminated on one end



# EZ!Access

## Connectorized Access Solution (FTTH)

- ✓ Minimal optical infrastructure;
- ✓ Optimal transition solution for a splicing network migrating to a connectorized network (field connectors);
- ✓ Segmented network, allowing more security and stability;
- ✓ Flexible design and quick subscriber activation.

### 1 1st Splitter Level - Splice Closure FK-CEO-4M

- ✓ Modular splice trays;
- ✓ Allows up to 144 splices;
- ✓ Aerial or underground installation (IP68);
- ✓ Mechanical sealing system (agility on installation);
- ✓ Allows mid-span and has 4 derivation ports.



### 2 Cable for Distribution Network

- ✓ Aerial self-supporting installation;
- ✓ Gel-free loose tube construction;
- ✓ Extremely light and easy to handle;
- ✓ Optimized for urban networks.

Gel-Free

### 4 Fig. 8 Drop Cable

- ✓ 1 or 2 single-mode B1 G.657 fibers;
- ✓ LSZH jacket;
- ✓ Available in black or gray;
- ✓ Compact design;
- ✓ Compatible with field connector and splicing.

### 3 2nd Splitter Level - Slimbox FK-CTO-16MC

- ✓ Supports up to 16 connectorized drop cables;
- ✓ Wide internal space for tube accommodation;
- ✓ Simple and safe opening;
- ✓ Compatible with round and flat drop cable.



### 5 EZ!Connector

- ✓ Simple, quick and easy installation;
- ✓ Excellent optical and mechanical performance;
- ✓ Low insertion loss: typical < 0.3 dB.



### Slimbox™ FK-CTO-16MI Inline

- ✓ IP55 protection;
- ✓ Supports up to 16 connectorized drop cables and 48 splices;
- ✓ Simple deployment and handling;
- ✓ Compatible with round and flat drop cables.

Pivoting Adapters

Perform activation without affecting other customers

### Underground Slimbox™ FK-CTOS-16P

- ✓ Underground and aerial;
- ✓ Up to 16 connectorized drop cables;
- ✓ Access: splice or field connector;
- ✓ Up to 02 1x8 splitters or 01 1x16 splitter;
- ✓ 2 derivation ports.

### Slimbox™ FK-CTO-8MC

- ✓ Aerial: pole and wall;
- ✓ Up to 8 connectorized drop cables;
- ✓ Access: field connector;
- ✓ Up to 02 1x4 splitters or 01 1x8 splitter;
- ✓ 2 derivation ports.



# MDU!Click

On-demand solution for buildings (Multi-Dwelling Units) with plug-and-play compact products. It doesn't demand any specialized labor or any special tool for the deployment.

## On-Demand Building Solution (MDU)

- ✓ On-demand splitter installation;
- ✓ Quick expansion;
- ✓ Flexible deployment.

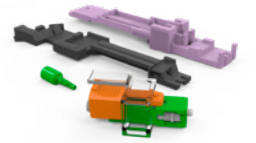
### 1 1st Subscriber:

- ✓ Flex Rosette + Limiter;
- ✓ Reduced dimension;
- ✓ Enables one connection.

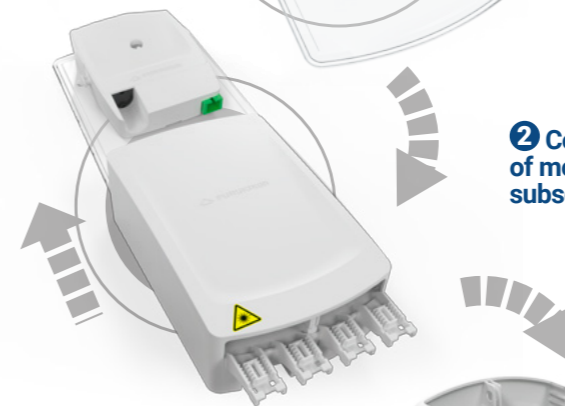


### EZ!Connector 900 μm

- ✓ Eliminates the use of splices in the solution;
- ✓ Compatible with 0.9 mm fibers;
- ✓ High optical performance (SC-APC);
- ✓ Quick and easy field connectorization.



### 2 Connection of more subscribers



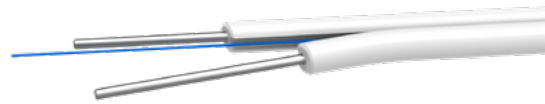
### 3 Slimbox™ Flex

- ✓ Pre-assembled from factory with a 1x4 or 1x8 splitter;
- ✓ Quick anchoring for compact cables;
- ✓ Lid with lock system;
- ✓ Pivoting adapters.



### EZ!Lux Fiber-Lan Cable

- ✓ Tight buffer fiber;
- ✓ Loose fibers allow easy mid-span access;
- ✓ Eliminates technical reserve in floor boxes;
- ✓ Compatible with EZ!Connector 900 μm.



### Micro Indoor Low Friction Cable

- ✓ Compact and specially designed for congested environments;
- ✓ Easy access to the fiber;
- ✓ Compact dimensions (2 x 1.6 mm);
- ✓ Compatible with field connectorization.

# PLUG & PLAY

## GPON Optical Network Terminal (ONT)

High quality triple-play solution in a single device (data, voice and video).



Strong WiFi



Integrated RF Video



Compact



AC WiFi

# MDU!Core

## Centralized Building Solution (MDU)

- ✓ Centralization of splitters and connection maneuvers of subscribers;
- ✓ Quick activation process;
- ✓ Connectorized solution;
- ✓ Optimal splitter usage.

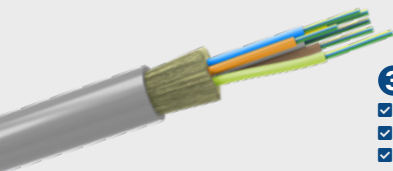
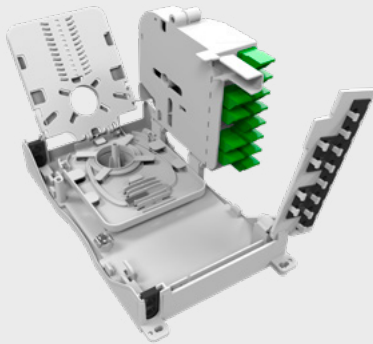


### 1 Slimbox™ 64F (DGOI-C 64)

- ✓ Modular box supporting up to 6 compact 1x8 splitters;
- ✓ Supports up to 64 homes passed (HP) and 48 homes connected (HC);
- ✓ Easy subscriber management;
- ✓ Splice and activation in separate areas.

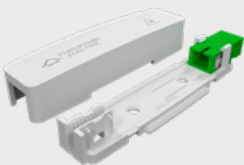
### 2 Slimbox™ 12F (CEIP 12)

- ✓ Transition box on the ground floor or on each floor of the building;
- ✓ Compatible with pigtails and splitters;
- ✓ Up to 12 SC-APC connectors.



### 3 Simplus-Lan Cable

- ✓ Tight buffer fiber;
- ✓ Compact high-density design;
- ✓ Micro-module construction enables easy installation and maneuvering.



### 4 In-Line Rosette

- ✓ Extremely compact design;
- ✓ Installation on flat surfaces;
- ✓ Compatible with round and flat drop cables;
- ✓ Compatible with field connector.



### 5 3 mm Optical Patch Cord

- ✓ Robust construction patch cord;
- ✓ With bend insensitive fiber.

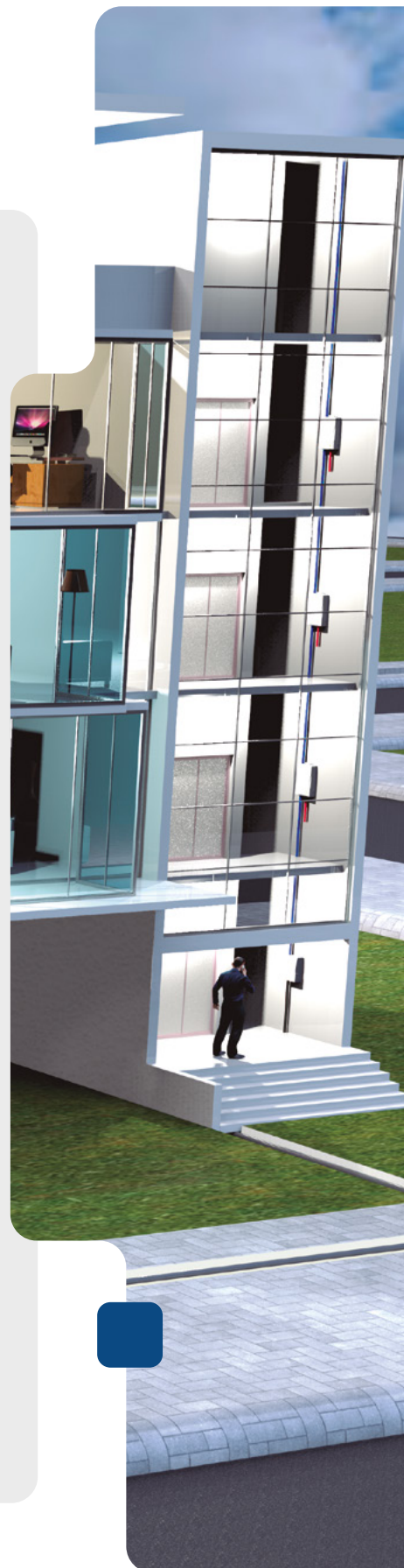
### Invisilight™ MDU Solution

- ✓ Perfect for building or MDU hallways or risers, if in OFNR duct;
- ✓ Fiber glued to wall or ceiling by an adhesive;
- ✓ Factory-terminated connectors for closet;



### Invisilight™ ILU Solution

- ✓ 01 900 μm fiber cable that can be glued to the wall;
- ✓ Provided with an integrated jumper to connect to the ONT;
- ✓ Internal parking space for the inside SC connector end;
- ✓ Allows slack management of the tight buffer and jumper.





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