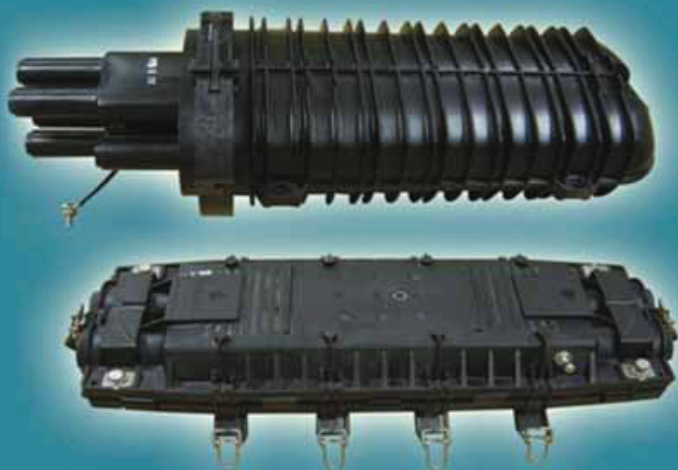# Optical Fiber Cables

**Armoured & Unarmoured**

**Single Mode & Multi Mode**

# Optical Fiber Closures

**Dome Type Optical Fiber Closure**

**Horizontal Type Optical Fiber Closure**

**Radial Type Optical Fiber Closure**

**Closure for Ribbon Type Optical Fiber**

## Optical Fiber Cables

Optical Fiber Cables for Indoor and outdoor applications with Single mode and Multimode fibers. Cables available from 2 core to 144 cores.

### Armoured Multi Tube Optical Fiber Cable   Single Mode / Multi Mode

| Product Code | Product Description |
|---|---|
| CA 1106 A | Armoured SM Cable 6 Core |
| CA 0034 A | Armoured SM Cable 12 Core |
| CA 0036 A | Armoured SM Cable 24 Core |
| CA 0037 A | Armoured SM Cable 36 Core |
| CA 0038 A | Armoured SM Cable 48 Core |
| CA 0039 A | Armoured SM Cable 72 Core |
| CA 0040 A | Armoured SM Cable 96 Core |
| CA 0035 A | Armoured SM Cable 144 Core |
| CA 1296 A | Armoured SM Cable 288 Core |
| CA 0031 A | Armoured MM Cable 6 Core |
| CA 0026 A | Armoured MM Cable 12 Core |
| CA 0028 A | Armoured MM Cable 24 Core |
| CA 0029 A | Armoured MM Cable 36 Core |
| CA 0030 A | Armoured MM Cable 48 Core |
| CA 0032 A | Armoured MM Cable 72 Core |
| CA 0033 A | Armoured MM Cable 96 Core |
| CA 0027 A | Armoured MM Cable 144 Core |
| CA 1297 A | Armoured MM Cable 288 Core |

### Un-Armoured  Multi Tube Optical Fiber Cable Single Mode / Multi Mode

| Product Code | Product Description |
|---|---|
| CA 0832 A | UnArmoured SM Cable 6Core |
| CA 0827 A | Un-Armoured SM Cable 12 Core |
| CA 0829 A | Un-Armoured SM Cable 24 Core |
| CA 0830 A | Un-Armoured SM Cable 36 Core |
| CA 0831 A | Un-Armoured SM Cable 48 Core |
| CA 0833 A | Un-Armoured SM Cable 72 Core |
| CA 0834 A | Un-Armoured SM Cable 96 Core |
| CA 1308 A | Un-Armoured SM Cable 288 Core |
| CA 0828 A | Un-Armoured SM Cable 144 Core |
| CA 0824 A | Un-Armoured MM Cable 6 Core |
| CA 0819 A | Un-Armoured MM Cable 12 Core |
| CA 0821 A | Un-Armoured MM Cable 24 Core |
| CA 0822 A | Un-Armoured MM Cable 36 Core |
| CA 0823 A | Un-Armoured MM Cable 48 Core |
| CA 0825 A | Un-Armoured MM Cable 72 Core |
| CA 0826 A | Un-Armoured MM Cable 96 Core |
| CA 0820 A | Un-Armoured MM Cable 144 Core |
| CA 1298 A | Un-Armoured MM Cable 288 Core |

### Indoor Optical Fiber cable Single Mode / Multi Mode

| Product Code | Product Description |
|---|---|
| CA 0131 A | Indoor SM Cable 2 Core |
| CA 0125 A | Indoor SM Cable 4 Core |
| CA 0135 A | Indoor SM Cable 6 Core |
| CA 0124 A | Indoor SM Cable 12 Core |
| CA 0132 A | Indoor SM Cable 24 Core |
| CA 0133 A | Indoor SM Cable 36 Core |
| CA 0134 A | Indoor SM Cable 48 Core |

| Product Code | Product Description |
|---|---|
| CA 0136 A | Indoor SM Cable 72 Core |
| CA 0127 A | Indoor MM Cable 2 Core |
| CA 0129 A | Indoor MM Cable 4 Core |
| CA 0130 A | Indoor MM Cable 6 Core |
| CA 0126 A | Indoor MM Cable 12 Core |
| CA 0128 A | Indoor MM Cable 24 Core |

### Hybrid Optical Fiber cable

| Product Code | Product Description |
|---|---|
| CA 0024 A | ARMD 6 Core SM + 6 Core MM |
| CA 0020 A | ARMD 12 Core SM + 12 Core MM |
| CA 0021 A | ARMD 24 Core SM + 24 Core MM |
| CA 0022 A | ARMD 36 Core SM + 36 Core MM |
| CA 0023 A | ARMD 48 Core SM + 48 Core MM |

### Self Support Aerial Optical Fiber Cable
### Single Mode / Multi Mode

| Product Code | Product Description |
|---|---|
| CA 0477 A | Aerial SM Cable 6 Core |
| CA 0472 A | Aerial SM Cable 12 Core |
| CA 0474 A | Aerial SM Cable 24 Core |
| CA 0475 A | Aerial SM Cable 36 Core |
| CA 0476 A | Aerial SM Cable 48 Core |
| CA 0478 A | Aerial SM Cable 72 Core |
| CA 0479 A | Aerial SM Cable 96 Core |
| CA 0473 A | Aerial SM Cable 144 Core |
| CA 0471 A | Aerial MM Cable 6 Core |
| CA 0467 A | Aerial MM Cable 12 Core |
| CA 0468 A | Aerial MM Cable 24 Core |
| CA 0469 A | Aerial MM Cable 36 Core |
| CA 0470 A | Aerial MM Cable 48 Core |

### Multi Cored Tight Buffered Fiber Cable

| Product Code | Product Description |
|---|---|
| CA 0490 A | SM, 2 Fiber Cable |
| CA 0491 A | SM, 3 Fiber Cable |
| CA 0492 A | SM, 4 Fiber Cable |
| CA 0493 A | SM, 5 Fiber Cable |
| CA 0494 A | SM, 6 Fiber Cable |
| CA 0495 A | SM, 8 Fiber Cable |
| CA 0484 A | MM, 2 Fiber Cable |
| CA 0485 A | MM, 3 Fiber Cable |
| CA 0486 A | MM, 4 Fiber Cable |
| CA 0487 A | MM, 5 Fiber Cable |
| CA 0488 A | MM, 6 Fiber Cable |
| CA 0489 A | MM, 8 Fiber Cable |

## Optical Fiber Splice Closures for Ribbon cable

It protects fiber optic splicing point in various installation conditions such as wires, manholes, ducts and direct buried. It is specially designed for accommodates plenty of iron cable and applicable to multi branching installation and complying with the requirements in each point of network.

The flat type gasket ensures reliable sealing performance by preventing air and water leak and the corn type sealing socket provides easy and reliable installation.

- 100% water proof using silicon gasket

- Firm cable gripping by double cable sheath holder

- Capability of multi-core management

- Use of various cable diameter, various branching and multi environments

- Designed by stable fiber bending radius

- Tight joined cable sheath for work efficiency.

| ITEM | CL 0296 A | |
|---|---|---|
| Size | 600 x 340 x 225mm (outer) | 470 x 270 x 210mm (inner) |
| Weight | 8 kg | |
| Inlet Ports | 6 | |
| Cable Diameter | 8 Dia - 27 Dia | |
| No. of Splice Tray | 6 | |
| Splice Capacity | Single-216C (Max, 432C) | Ribbon-1944C (12C ribbon) |
| Splice Method | Fusion, Mechanical | |
| Splice Protector | Heat Shrinkable Sleeve, Mechanical Splicer | |

## Optical Fiber Splice Closures for FTTH

It protects fiber optic splicing joint in various installation conditions such as wires, manholes, ducts. It is specially designed for FTTH network and applicable to multi branching installation complying with the requirements in each point of network.

- The Ribbed body has high mechanical strength environmental impact and compression

- The tray is able to accommodate RN and heat shrinkable sleeve together

- One flat gasket and the external screws provide excellent tightness reliability

- The closure can be installed in the pole and manhole with provided hangers

**Specification:**      **Size - 270 x 160 x 80mm**
Inlet ports - 4
Cable Diameter - 3 Dia - 10 Dia
No of Splice Tray - 2
Splice Capacity - 24C (Max. 48C)
Splice Method - (Fusion, Mechanical, Connector)

| Product Code | Item Description |
|---|---|
| CL 0289 A | Fiber Optic Splice Closure for FTTH |

## Optical Fiber Splice Closures for FTTx

It protects fiber optic splicing joint in various installation conditions such as aerial, manholes, ducts. It is applicable to multi branching installation by using Mid-plate for increasing core capacity and complying with the requirements in each point of network.

 The flat type gasket ensures reliable sealing performance by preventing air and water leak and the cone type sheath gasket is available to accommodate varying size of cable diameter.

- The closure has an air valve on its cover for checking air pressure drop

- The ribbed body has high mechanical strength against impact and compression

- The splice tray is applicable for both loose tube and ribbon fiber management

- The LAP ground connector and wire are offered for grounding metallic OSP cables

- The cone type sealing socket is adjustable to fit any diameter cable

Specification:

| ITEM | CL 0290 A | CL 0291 A | CL 0292 A |
|---|---|---|---|
| Size | 435X205X113mm | 435X205X167mm | 435X205X221mm |
| Weight | 2.8 kg | 3.8 kg | 4.8 kg |
| Inlet Ports | 4 (Max, 32) | 8 (Max, 64) | 12 (Max, 96) |
| No of Splice Tray | 4 | 6 | 8 |
| Splice Capacity | 96C (Max, 192C) | 144C (Max, 288C) | 192C (Max, 384C) |
| Splice Method | (Fusion, Mechanical, Connector) | | |
| Adapter Capacity | 12EA | 24, 48EA | |

## Optical Fiber Splice Closures for FTTx

It is specially designed for specific FTTx network environment, developed for multi-branch and multi purpose, and which is suitable for 8-branching or multi branching installation by using multi-branching gaskets in case of FTTx network installation.

- Protection against impact and compression

- Tight water proof by using silicon rubber sheath gasket

- Variable gasket, variable installations

Specifications Summary

| ITEM | CL 0293 A |
|---|---|
| Size | 435 x 205 x 113mm |
| Weight | 2.8 kg |
| Inlet Ports | 8 (Max, 32) |
| Cable Diameter | 3 Dia - 20 Dia |
| No.of Splice Tray | 4 |
| Splice Capacity | 96C (Max, 192C) |
| Splice Method | Fusion, Mechanical, Connector |
| Splice Protector | Heat Shrinkable Sleeve, Mechanical Splicer |

## Optical Fiber Splice Closure

It protects fiber optic splices in various installation conditions such as aerial, manholes, ducts and pole mounts. It provides fast and easy no-cost re-entry by using plastic clips that have high mechanical and environmental features and also provides reliable sealing performance. with its six entry ports, the closure is applicable to in-line or mid-span branching method.

- Reliable moisture-tight casing with silicon sealing

- Ribbed body structure against impact and compression

- Compact and light weight

- Various branching method including mid span branching

- Both loose tube ribbon management possible

- 6 plastic clips provide speedy, convenient and reliable work

Specifications Summary

| ITEM | CL 0294 A |
|---|---|
| Size | 542 x 243 x 150mm |
| Weight | 4.5 kg |
| Inlet Ports | 6 |
| Cable Diameter | 8 Dia - 29 Dia |
| No. of Splice Tray | 6 |
| Splice Capacity | 144C (Max, 288C) |
| Splice Method | Fusion, Mechanical |
| Splice Protector | Heat Shrinkable Sleeve, Mechanical Splicer |

## Optical Fiber Splice Closure

It protects fiber optic splicing point in various installation conditions such as aerial, manholes, ducts and direct buried. The flat type gasket ensures reliable sealing performance by preventing air and water leak and the various sheath gasket provides easy and reliable installation, with its eight ports and various sheath gasket, the closure is applicable to various applications.

- 100% water proof using silicon gasket

- Ribbed body structure against impact and compression

- Capability of multi-core management

- Use of various cable diameter, various branching and multi environments

- Both loose tube ribbon management possible

| ITEM | CL 0295 A |
|---|---|
| Size | 559 x 242 x 135mm |
| Weight | 4.5 kg |
| Inlet Ports | 8 |
| Cable Diameter | 3 Dia - 24 Dia |
| No. of Splice Tray | 6 |
| Splice Capacity | 288C (Max, 576C) |
| Splice Method | Fusion, Mechanical |
| Splice Protector | Heat Shrinkable Sleeve, Mechanical Splicer |

## Optical Fiber Splice Closure BS604A

It protects fiber optic splices while providing fast and easy no-cost re-entry. It can be installed on aerial, in manholes, ducts and mounted on poles. The closure provides reliable sealing performance, and fiber splicing point protected in a ribbed polypropylene dome that has high mechanical and environmental features. With its six entry ports, the closure is applicable to in-line or mid-span branching method.

- Reliable moisture-tight housing with hot melt type sealing
- Ribbed body structure protects against impact and compression
- Efficient fiber management by splice tray holding structure
- Easy to use for closure assembly
- Easy clamping of tension member and grounding

| ITEM | CL 0297 A | CL 0297 B | CL 0297 C |
|---|---|---|---|
| Size | 522 x 211 x 174mm | 522 x 211 x 174mm | 577 x 211 x 174mm |
| Weight | 2 kg | 2 kg | 2.5 kg |
| Inlet Ports | 6(2 oval) | 6(2 oval) | 6(2 oval) |
| Cable Diameter | 8 Dia - 24 Dia | 8 Dia - 24 Dia | 8 Dia - 24 Dia |
| No. of Splice Tray | 4 | 4 | 4 |
| Splice Capacity | 48C (Max, 48C) | 48C (Max, 48C) | 96(Max, 192C) |
| Splice Method | | Fusion, Mechanical | |
| Splice Protector | | Heat Shrinkable Sleeve, Mechanical | |
| Splicer | | | |

## Fiber Optic Splice Closure

It protects fiber optic splices while providing fast and easy no-cost re-entry. It can be installed on aerial, in manholes, ducts and mounted on poles. The closure provides reliable sealing performance, and fiber splicing point protected in a ribbed polypropylene dome that has high mechanical and environmental features. With its seven entry ports, the closure is applicable to in-line or mid-span branching method.

- Reliable moisture-tight housing with hot melt type sealing
- Ribbed body structure protects against impact and compression
- Efficient fiber management by splice tray holding structure
- Easy to use for closure assembly
- Easy clamping of tension member and grounding

| ITEM | CL 0298 A |
|---|---|
| Size | 525 x 252mm |
| Weight | 3.5 kg |
| Inlet Ports | 7 |
| Cable Diameter | 8 Dia - 30 Dia |
| No. of Splice Tray | 12 |
| Splice Capacity | 288C (Max, 576C) |
| Splice Method | Fusion, Mechanical |
| Splice Protector | Heat Shrinkable Sleeve, Mechanical Splicer |

## Fiber   Optical Splice Closures for aerial line

It protects fiber optic splices in installation conditions such as aerials. It is designed for the aerial line especially and provides the safety by using catch clips and the reliable sealing performance in low pressure environment for maintain and the beauty of the town by supplying the operating environment according to the suitable design for pole and no splicing of cable.

- Development of the operating environment y not surplus the cable spool

- Reduction of the working hour and safety by using one touch handle clip

- Reliable sealing performance in low pressure environment

- Fiber optic protection, prevention, of tube break-off and insurance against risk of bend

- Double structure of sheath gasket and sheath holder

- Prevention from vibration, movement by using aerial hanger to fix closure and aerial line together

| ITEM | CL 0299 A | CL 0299 B |
|---|---|---|
| Size | 525 x 203 x 154mm | 420 x 180 x 100mm |
| Weight | 5 kg | 2.5kg |
| Inlet Ports | 6 | 6 |
| Cable Diameter | 8 Dia - 18 Dia | 3 Dia – 20 Dia |
| No. of Splice Tray | 6 | 3 |
| Splice Capacity | 144C (Max, 288C) | 72C (Max, 144C) |
| Splice Method | Fusion, Mechanical | Fusion, Mechanical |
| Splice Protector | Heat Shrinkable Sleeve, Mechanical Splicer | |
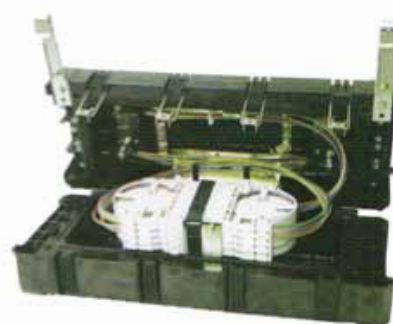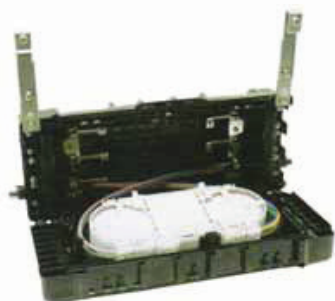
# Optical Fiber Connectors - Adapters

FC/PC

FC/APC

SC/PC

SC/APC

ST/PC

SC/PC

LC/APC

FC/SC

ST/SC

LC/SC

MU/SC

SC/SC

MTP - Connector

LC/LC

SC/ST

MTRJ

FC/FC

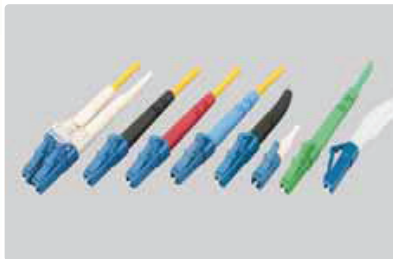LC/CL - Adaptors

Pigtail

Patch Cord

SC TYPE

ST TYPE

FC TYPE

LC TYPE

MU TYPE

MTRJ

E-2000

SMA & D4

LX5 TYPE

ESCON

FDDI

MPO

## >>> APPLICATIONS

* HD TV
* Local Area Networks
* CATV networks
* Active device termination
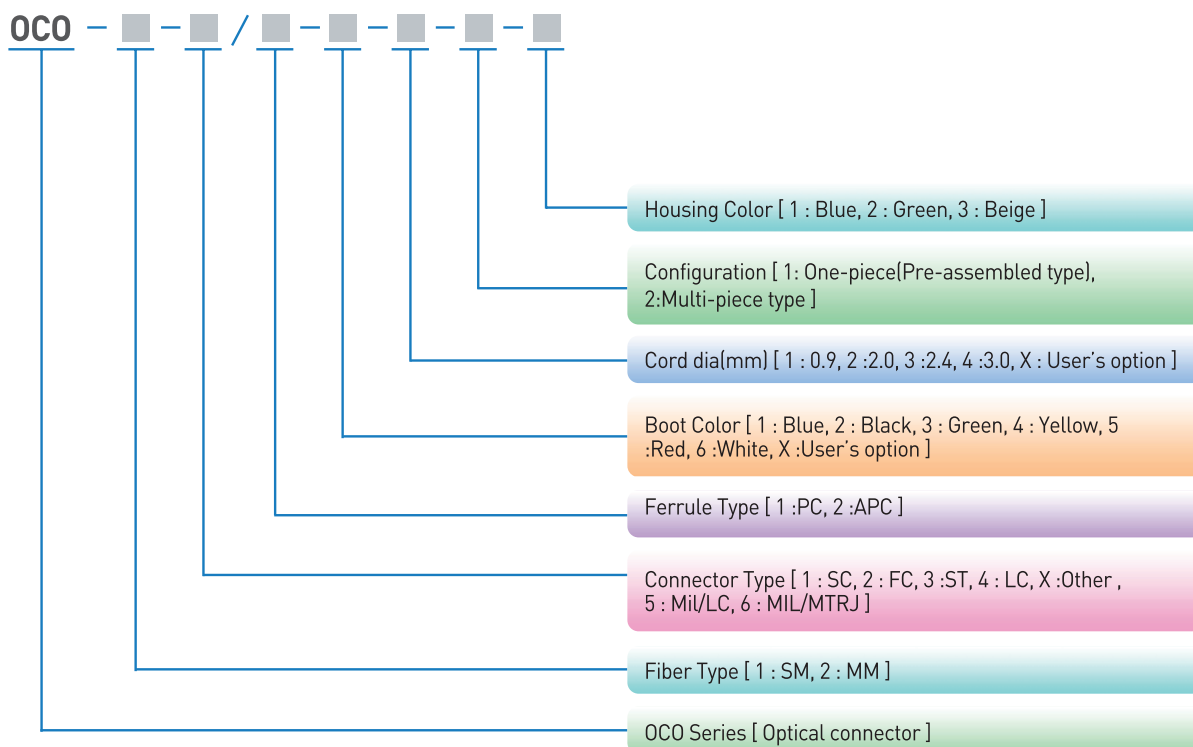* Data system networks

## >>> FEATURES & BENEFITS

* Compliant with : JIS C-5973, IEC
* Customer length
* Convenience and ease of handling
* May be tuned for minimum loss
* Low price
* Low return loss
* Easy to handle
* Environmentally

## >>> SPECIFICATION

(Unit :dB)

| Characteristics | Conditions | Value |
|---|---|---|
| Insertion Loss | | ＜0.20 |
| Mating Durability | Cycling rate ＞ 3sec, 500times | ＜0.20 |
| Temperature Cycling | -40 ~ + 80℃(42 cycles) | ＜0.20 |
| Humidity Cycling | 75℃, 95% / 336hr | ＜0.20 |
| Vibration | 10 ~ 55Hz (2hr) | ＜0.20 |
| Impact | 1.5m drop, 8times | ＜0.20 |

## >>> ORDERING INFORMATION

OCO − ■ − ■ / ■ − ■ − ■ − ■ − ■

Housing Color [ 1 : Blue, 2 : Green, 3 : Beige ]

Configuration [ 1: One-piece(Pre-assembled type), 2:Multi-piece type ]

Cord dia(mm) [ 1 : 0.9, 2 :2.0, 3 :2.4, 4 :3.0, X : User's option ]

Boot Color [ 1 : Blue, 2 : Black, 3 : Green, 4 : Yellow, 5 :Red, 6 :White, X :User's option ]

Ferrule Type [ 1 :PC, 2 :APC ]

Connector Type [ 1 : SC, 2 : FC, 3 :ST, 4 : LC, X :Other , 5 : Mil/LC, 6 : MIL/MTRJ ]

Fiber Type [ 1 : SM, 2 : MM ]

OCO Series [ Optical connector ]

## Optical Fiber Adapters



SC TYPE



FC TYPE



ST TYPE



LC TYPE



MU TYPE



MTRJ

## Hybrid Adapters



LC-SC



FC-SC



ST-FC



ST-SC



SMA-ST



ST-ST



FC-FC



ESCON-ST

### ⟩⟩⟩ APPLICATIONS

- Telecommunication networks
- CATV networks
- Data communications networks
- Active device termination
- Instrumentation
- Local Area Networks

### ⟩⟩⟩ FEATURES & BENEFITS
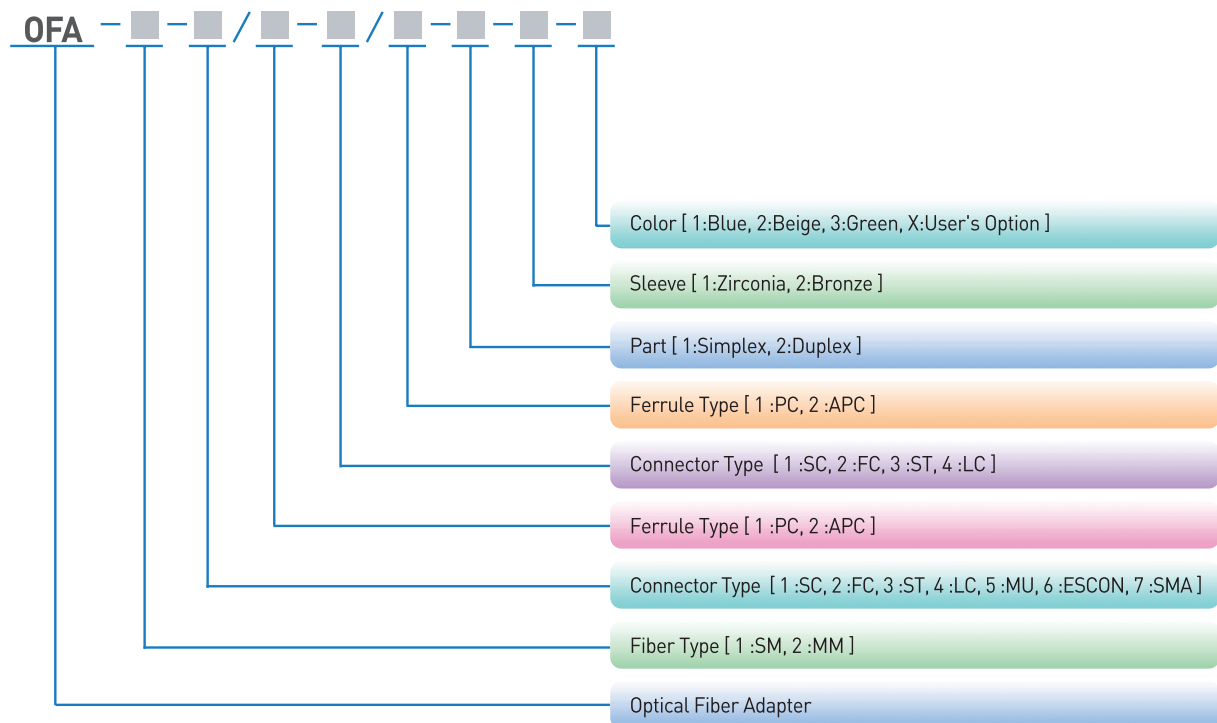
- Compliant with : JIS, IEC
- Convenience and ease of handing
- Optical performance 100% factory tested
- Flange or threaded mounting hardware
- Ceramic or Phosphorous bronze sleeves available
- Competitive price
- Excellent concentricity

### ⟩⟩⟩ SPECIFICATION

(Unit :dB)

| Characteristics | Conditions | Value |
|---|---|---|
| Insertion Loss | | ＜0.15 |
| Durability | 500 mating | ＜0.20 |
| Temperature Cycling | -40℃ ~ +80℃(42 cycles) | ＜0.20 |
| Humidity Cycling | 75℃ 95%/336hr | ＜0.20 |
| Vibration | 10~55Hz(2hr) | ＜0.20 |
| Impact | 1.5m drop, 8times | ＜0.20 |

### ⟩⟩⟩ ORDERING INFORMATION

OFA － ▢ － ▢ / ▢ － ▢ / ▢ － ▢ － ▢ － ▢

Color [ 1:Blue, 2:Beige, 3:Green, X:User's Option ]

Sleeve [ 1:Zirconia, 2:Bronze ]

Part [ 1:Simplex, 2:Duplex ]

Ferrule Type [ 1 :PC, 2 :APC ]

Connector Type [ 1 :SC, 2 :FC, 3 :ST, 4 :LC ]

Ferrule Type [ 1 :PC, 2 :APC ]

Connector Type [ 1 :SC, 2 :FC, 3 :ST, 4 :LC, 5 :MU, 6 :ESCON, 7 :SMA ]

Fiber Type [ 1 :SM, 2 :MM ]

Optical Fiber Adapter

# Optical Fiber Consumable

**Anaerobic Adhesive Primer/Hardener**

**Polishing Film/Pad/Pac**

**Splice Protectors/ Holders**

**Iso Propyl Alcohol**

**Splice Trays**

**Warning Tape**

# Optical Fiber Consumables

## Anaerobic Adhesive Primer



| Product Code | Product Description |
|---|---|
| AN 0002 A | Anaerobic adhesive primer |

## Anaerobic Adhesive Hardener



| Product Code | Product Description |
|---|---|
| AN 0001 A | Anaerobic adhesive hardener |

## Polishing Film



| Product Code | Product Description |
|---|---|
| PO 0007 A | Polishing paper 0.3 micron |
| PO 0008 A | Polishing paper 1 micron |
| PO 0009 A | Polishing paper 5 micron |

## Polishing Pad



| Product Code | Product Description |
|---|---|
| PO 0006 A | Polishing Pad |

## Polishing Puck



| Product Code | Product Description |
|---|---|
| PO 0011 A | SC/FC/ST Polishing Puck |
| PO 0010 A | LC/MU Polishing Puck |

## Heat Shrinkable Splice Protector



| Product Code | Product Description |
|---|---|
| PR 0012 A | 61 mm |
| PR 0011 A | 40 mm |
| SL 0061 A | 4–Ribbon Fiber protection sleeve |
| SL 0062 A | 12–Ribbon Fiber protection sleeve |

## Iso Propyl Alcohol



| Product Code | Product Description |
|---|---|
| IS 0001 A | Iso propyl alcohol 500 ml |

## Splice Trays



| Product Code | Product Description |
|---|---|
| TR 0008 A | 12 Core Splice Tray |
| TR 0009 A | 24 Core Splice Tray |
| TR 0010 A | Ribbon Fiber Splice Tray |

## Cleaning Tissue



| Product Code | Product Description |
|---|---|
| CL 0155 A | Cleaning tissue |

## Fiber Optic Warning Tape



| Product Code | Product Description |
|---|---|
| TA 0124 A | Warning Tape Detectable 75mm x 305mtr |

## Fiber Optic Warning Tape



| Product Code | Product Description |
|---|---|
| TA 0129 A | Warning Tape Detectable 50mm x 305mtr |

## Fiber Optic Warning Tape



| Product Code | Product Description |
|---|---|
| TA 0111 B | Warning Tape Detectable 150mm x305mtr |

# Optical Fiber Instruments

**OTDRs**

**Splicing Machines**

**Power Meter**

**Fault Finder**

**Light Detector**

**Fiber identifier**

**Fiber Bending Attenuator**

**Test Fiber**

### OTDR-MTS-8000

### OTDR

MTS-8000 is a compact and portable optical network tester with flexible scalable platform. The key feature is its industry leading size and weight. It is remotely controlled (via Ethernet, Fiber)

With the MTS-8000's scalable design, companies can match testing solutions of their unique network environments by purchasing only the features needed. This platform maximizes scalability, manageability, price/performance and flexibility.

The powerful communication capability of the MTS-8000 test platform offers users the abillity to remotely control the unit, send data directly to the office, or access the data via internet.

Fiber Characterization testing
- Optical Time Domain Reflectometer (OTDR)
- Chromatic Dispersion (CD)
- Polarization Mode Disperstion (PMD)
- Attenuation Profile (AP)
- Loss testing

OTDR Module
- More than 20 OTDR modules
- Combined wavelengths MM:850/1300
  SM:1310/1383/1550/1625 nm
- Dynamic range 30DB upto 50DB

MTS-6000 is a compact and light weight test platform designed for the installation and maintenance of fiber networks. It provides field service technicians with the highest levels of performance and upgradeability on the market today.

Modular in design,MTS-6000 offers an extensive portfolio of test functionality with over 40 different fiber modules supporting a wide range of applications.The versatality of the MTS-6000 allow technicians to standardize using one type of test equipment and then introduce new testing capabilities in the field without incurring additional costs

Since the MTS-6000 is compatible with our existing fiber module product line,technicians can exchange plug in modules between the MTS-8000,Multiple Network Test Platform and the MTS-6000 .To ensure the highest return on your test equipment existing OTDR modules from the MTS-5100 can be transformed (with extension) for use with the MTS-6000

| Product Code | Product Description |
| --- | --- |
| OT 0010 A | OTDR MTS-6000 Complete |
| | set with carry case |

| Product Code | Product Description |
| --- | --- |
| OT 0010 B | OTDR MTS-8000 Complete  set |
| | with carry case |

## Ribbon Fusion Splicer-FSM-60R



The main advantage of this is its compact size and movable monitor

It is used upto 12-fiber ribbon splicing.
Cladding alignment with fixed v-grooves.
Environmental resistant features.
Arc-calibration free system.
4.1" TFT color LCD monitor.

Dual directional operation system
Long life battery.

Software upgrade via internet.
Detachable work table
(Attached to caary case)
Over 100 splicing modes
Splicing time is 20 sec.

- Over 40 application modules already supported
- Dymanic range above 45 db
- Wavelengths (1310, 1550, 1625nm)
- More flexibility future testing needs
- Unprecedented speed and power

| Product Code | Product Description |
|---|---|
| FU 0008 A | Ribbon fusion splicer-FSM 60R |

## Fusion Splicer FSM-60S



A number of improvements have been added to the performance proven Profile Alignment System (PAS)platform,resulting in the smallest and the lightest package of its kind. With improved splice tube heat time, the splicing operation is the world's fastest truly optimised for the field use. Other valuable features include an ergonomic design. The movable monitor and dual-direction operating system essentially gives the operator choice of two splicers. With these features, the FSM 60S is now more than a tool.

- Core to Core fiber alignement system PAS
- 9 sec splice time and 35 sec tube-heat time
- Dual-directional operating system
- Arc calibration free system
- Large capacity slot-in batteries

| Product Code | Product Description |
|---|---|
| FU 0006 B | FUSION SPLICER FSM-60S |

## Single Fiber Fusion Splicer DVP-730

## Cable and Antena Analyser





- Digital colour display.
- Reversible monitor with control panel on each side
- Max. wind velocity 0f 15m/s
- 9 sec. splice time, 40 sec. tube-heat time
- Compact & light weight
- Simultaneous X and Y views
- Large capacity internal battery
- Store 8000 groups of splice results
- Auto check end face
- Auto calibration parameters

| Product Code | Product Description |
|---|---|
| FU 0005 B | FUSION SPLICER DVP-730 – SINGLE MODE |

This cable and antena analyzer is a light weight portable diagnostic tool that accurately detects operational problems in the infrastructure of the base station and repeaters.
It has all of the measurement functions necessary to accuratley characterize the site's antenna system,including Voltage Standing Wave Ratio(VSWR),Distance To Fault(DTF),cable loss and power measurements.
Frequency range is from 40MHZ to 4.0GHZ
Rechargable and field replacable Lithium-ion-Battery
It is easy to use, equipped with touch panel colour display allowing rapid measurements and obtaining results clearly displayed. Its application specific software allows the user to compare and
analyze measurements and generate professional reports.

| Product Code | Product Description |
|---|---|
| CA 1233 B | Cable and Antenna analyzer |
| | complete set |

| Power Meter | Light Source |
|---|---|



Industry's first auto-zeroing function provides outstanding accuracy with no manual zeroing necessary.

Illuminated graphical user interface displays all necessary parameters and upto 3 test results simultaneously.

Upto 900 calibrated wavelengths for the highest performance range in the industry.

A large storage capability for upto 1000 results with automatic date/time stamp.

A usb port for remote operation as well as easy microsoft excel based report generation and analysis

A unique power supply management system on the market with 4 different ways of powering units

A robust,shock-proof and splash-proof design for field operation

Laser source with upto four wavelengths offers flexibillity in singlemode and multimode applications.

The available nominal wavelengths are 1310 and 1550nm.

Nominal output power is -7.0 dbm to 0 dbm, seperately adjustable.

High output level stability due to built in optical isolator and optical power control.

Powered by 4 dry batteries mignon/AA, operating time is above 45 hours.

The instrument switches off automatically after 20 min.

| Product Code | Product Description |
|---|---|
| PO 0046 A | Power meter 780-1600nm,-70 |
| | to +20dbm sm-mm |
| PO 0045 A | Power meter 1310/1490/1550 nm sm |

| Product Code | Product Description |
|---|---|
| LI 0006 B | Single mode light source |
| | 1310/1550nm,universal adapter |

## Visual Fault Finders

Used to quickly locate bending loss and breaks in optical fibers, and to identify bad connectors.
- 635nm red laser makes fiber breaks and bending losses easily visible.
- Stable, Calibrated output.
- Continuous and blinking wave output
- Optional AC power converter/Adapter available for bench top or prolonged use.
- Rugged and splash proof.
- Available with FC/PC or MTRJ adapters.
- Range upto 3 KM
- More than 30 hours of continuous operation

| Product Code | Product Description |
|---|---|
| VI 0005 A | FC/PC , 3 KM , SM, MM |
| VI 0006 A | MT-RJ , 1 KM , MM |

## Visual Fault Finder

Fiber breaks,microbends and poor optical splices are clearly visible as light glows through the fiber buffer or outer jacket.
- Rugged metal housing, pen size-format.
- Light weight.
- Universal push-pull interfaces(upp) for 2.5mm and 1.25mm.
- Visible laser light at 635 nm.
- Usable with single mode and multi mode fibres
- Range upto 5 km.
- Operates for over more than 45 hours.

| Product Code | Product Description |
|---|---|
| VI 0007 B | Pen size visual fault locator |

## Bare Fiber Adapter

Allows temporary connection of 125 micron multimode or single mode fiber to measuring equipments. Includes a durable 2.5mm tungsten carbide ferrule and a ferrule cleaning tool.

| Product Code | Product Description |
|---|---|
| BA 0003 A | 125 mm, FC style connector |

## Single Mode Loss Tester

## Multifunction Loss Tester

Packaged to operate in specific fiber applications, accurate attenuation measurements in minimum Wavelength range is about 800 - 1625nm
Source has stable,Calibrated output and rugged to easy use.

| Product Code | Product Description |
|---|---|
| LO 0016 A | Loss test with charger adapter |

This multifunction loss test set offers a highly versatile handheld test instrument which has been specially developed in response to those industry standards
Easy-to-use all-in-one prepackaged kit
FTTx ready by integrating dedicated wavelengths (1310/1490/1550) for PON testing as well as an optimised test sequence for increased field productivity
0.01db display resolution

| Product Code | Product Description |
|---|---|
| LO 0039 A | Multi function loss test set |
| | with(soft carry case,adapter) |

## Fiber Micro Scope

| Product Code | Product Description |
|---|---|
| MI 0009 A | 200 X Microscope |
| MI 0010 A | 400 X Microscope |

## Fiber Identifier



Interchangeable head for ribbon, jacketed and coated fibers allow virtually any fiber to be identified.

| Product Code | Product Description |
|---|---|
| FI 0009 A | Range - (0 ,–40 dBm) |
| FI 0010 A | Range - (0 ,–40 dBm) with relative power |
| FI 0008 A | Range - (+20 ,–20 dBm) |

## Fiber Talk set



Clear digital voice transmission
Hands free operation
Rugged casing

| Product Code | Product Description |
|---|---|
| TA 0002 B | 1550nm,45db |
| TA 0002 A | 1310nm,30db |

## Fiber Optic Couplers



| Product Code | Product Description |
|---|---|
| CO 0161 A | SM, 1 x 2 Coupler |
| CO 0162 A | SM, 1 x 4 Coupler |
| CO 0163 A | SM, 1 x 8 Coupler |
| CO 0158 A | MM, 1 x 2 Coupler |
| CO 0159 A | MM, 1 x 4 Coupler |
| CO 0160 A | MM, 1 x 8 Coupler |

### Wavelength Division Multiplexer

### Test Fiber
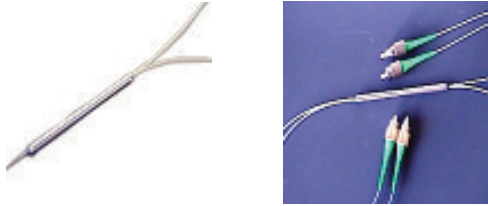




Two different wavelength carrying different information is coupled to a single fiber. Increases the efficiency of the network. It is available in different standard connectors and wavelengths. Widely used in Telecommunication, CATV networks

| Product Code | Product Description |
|---|---|
| WA 0022 A | 980/1550 1 x 2 multiplexer |
| WA 0023 A | 980/1550 2 x 2 multiplexer |
| WA 0018 A | 1310/1550 1 x 2 multiplexer |
| WA 0019 A | 1310/1550 2 x 2 multiplexer |
| WA 0020 A | 1480/1550 1 x 2 multiplexer |
| WA 0021 A | 1480/1550 2 x 2 multiplexer |

Test fiber is a spool of Optical fiber with a length ranging from 300 meter to 5 kilometer length in a box. This is used for accurate OTDR & other optical fiber measurements. A standard test fiber at the beginning of a fiber span will protect the actual fiber from falling into the dead zone of the instrument.
    Used to remove the "dead zone" from OTDR measurements
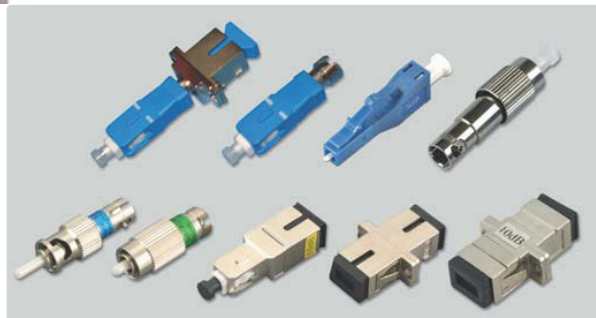    Used as calibration comparison for OTDR measurements
    Single mode or Multi mode fiber available.
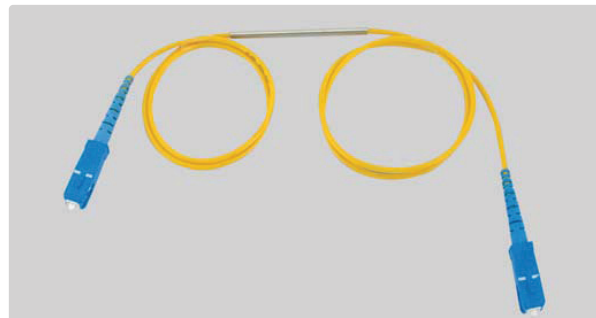    Can be terminated with any style connector.
    Impact and crush resistant packing.

| Product Code | Product Description |
|---|---|
| TE 0014 A | SM 300 M Test fiber box |
| TE 0013 A | SM 1000 M Test fiber box |
| TE 0015 A | SM 5000 M Test fiber box |
| TE 0011 A | MM 300 M Test fiber box |
| TE 0010 A | MM 1000 M Test fiber box |
| TE 0012 A | MM 5000 M Test fiber box |

Plug type fixed attenuators



In-line type fixed attenuators

## >>> APPLICATIONS

- Telecommunication network
- CATV networks
- Local Area Network
- Active device termination
- Data system networks

## >>> FEATURES & BENEFITS

- Compliant with : JIS C-5973, IEC
- 100% factory tested
- High power endurance
- Modal Noise
- Low polarization Insensitive
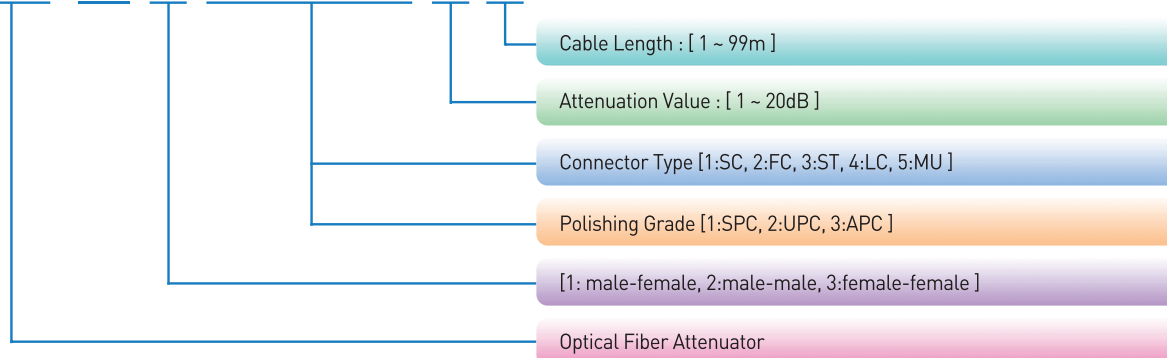- Convenience and compact design
- Low price

## >>> SPECIFICATION

(Unit :dB)

| Characteristics | Conditions | Value | | |
|---|---|---|---|---|
| | | Min | Typ | Max |
| Attenuation | | | 1 ~ 10 | |
| | | | 15, 20 | |
| Return Loss | SPC | 40 | 45 | |
| | UPC | 50 | 55 | |
| | APC | 60 | 65 | |
| Attenuation Accuracy | 1 ~ 10dB | | | ±0.5 |
| | 15, 20dB | | | ±1.0 |
| Operating Wavelength(nm) | | 1310 and 1550(1650) | | |
| Operating Temperature | | -40℃ ~ +80℃ | | |
| Humidity | | 75℃, RH 95% | | |

## >>> ORDERING INFORMATION

OFAT—SM—☐—☐/☐—☐/☐—☐—☐

Cable Length : [ 1 ~ 99m ]

Attenuation Value : [ 1 ~ 20dB ]

Connector Type [1:SC, 2:FC, 3:ST, 4:LC, 5:MU ]

Polishing Grade [1:SPC, 2:UPC, 3:APC ]

[1: male-female, 2:male-male, 3:female-female ]

Optical Fiber Attenuator

### 〉〉〉 APPLICATIONS

• Receiver padding
• Lab or field and installation
• System testing and installation
• Optical power equalization

### 〉〉〉 FEATURES & BENEFITS

• Wide attenuation range
• Precise resolution
• Low polarization dependent loss
• Low insertion loss
• Customer-specified attenuation range
• Low back-reflection

### 〉〉〉 SPECIFICATION

| Type | Patch Type | Plug-In Type | | | |
|---|---|---|---|---|---|
| Connector Type | SC, FC, ST | SC, FC | | | |
| Grade | N | N | A(FC Only) | | S |
| Applicable optical connector (Female to Male) | UPC to UPC | UPC to UPC | UPC to APC | APC to APC | APC to APC |
| Attenuation Variable Range (1310nm, 1550nm) | 28dB | 28dB | 28dB | 28dB | 28dB |
| Minimum Attenuation Value | 1dB | 4dB | 1dB | 1dB | 1dB |
| Return Loss @ 〉 4dB (Attenuation Value) | 13dB | 13dB | 35dB ~ 50dB | 〉 50dB | 〉 60dB |
| Resolution | 0.5dB | | | | |
| Operation Temperature | -15℃ ~ 60℃ | | | | |
| Storage Temperature | -40℃ ~ 70℃ | | | | |

## Patch Panel
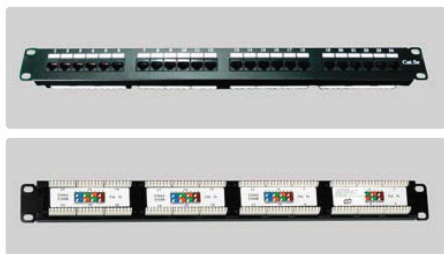


### 》》 FEATURES & BENEFITS

- Design registration (FSC-FSP-24P)
- construct level CAT.5E high speed network
- 19-inch RACK standard design, easy to be set up
- This technology is just for the internal standard residence / business building of precincts correspondence line equipment
- Every PORT use the discern icon
- Easy to numbering

## OTP



### 》》 APPLICATIONS

- Construct the FTTH network
- Size: 320×245×85mm
- total weight: about 1.4kg
- Faucet: 2
- outlet: 16

### 》》 FEATURES & BENEFITS

- The simple design can fix the member mark
- Convenient in locale work
- Convenient in locale work
- Load light splitter
- It can protect thin light cable and pipeline light cable
- It is made by the high rigidity plastic material, use the front and back of the inside tray, it can contain 2 RN splitter and 16 light outside line at the most
- It can be constructed on the electric poles or exterior wall of buildings

## Splice Trays

### 》》 APPLICATIONS

- For use with indoor or outdoor splice hardware
- Telecommunication networks
- CATV Networks  Local Area Network
- Active Device Termination
- Data System Networks

### 》》 FEATURES & BENEFITS

- Craft-friendly design
- Available for many splicing methods
- Used for multi-mode or single-mode systems
- Low excess loss &High performance
- Retractable splicing tray
- Convenience and ease of handling
- Low price



F-TRAY-1



F-TRAY-2

### 》》 SPECIFICATION

| Parameters | | Unit | F-TRAY-1 | F-TRAY-2 |
|---|---|---|---|---|
| Fiber Capacity | | Core | 24 | 24 |
| | H | mm | 11 | 12 |
| Dimension | W | mm | 160 | 225 |
| | D | mm | 108 | 110 |
| REMARK | | | | |

## Optical Connector for Site Assembling

| | |
|---|---|
| Applicable Fiber | Single Mode : 9/125$\mu$m |
| Connection Loss | Max: Less than 0.5dB, Avg: Less than 0.3dB |
| Return loss | 40dB |
| Polishing | PC |
| Temperature | Max: Less than 0.5dB, Avg: Less than 0.3dB (-20 ~ 60℃) |
| Tensile Strength | Max: 0.25Kg, Less than 0.5dB, Avg: Less than 0.3dB |
| Coupling Method | Push-on Method |

## Ferrule Inspection Scope

Aerotech's new line of variable magnification inspection microscopes all have a standard magnification range of 150X - 400X. All units supplied with FC/PC, SC/PC and 2.5mm patch cord viewing tips as standard, with optional tips available for LC,MU,SC/APC, FC/APC, E2000 and other connectors. Software for all units runs on standard Windows operating system.

## Laser Fault Locator

### ⟩⟩⟩ FEATURES & BENEFITS

- ✦ Locates breaks, bends even through jacketed fibers
- ✦ Troubleshoots faults within OTDR dead zone
- ✦ End-to-end fiber identification
- ✦ Small size, pocket tools

| Power source | LD |
|---|---|
| Wavelength | 650nm |
| Output power | 5dBm(3mw) |
| Fiber identified distance | ⟩5 km |
| Output interface | Multi-function (SC.FC.ST.LC) |
| Usage temperature | -10℃ ~ +50℃ |
| Storage temperature | -20℃ ~ +80℃ |
| Weight1 | 58g |
| Length | 167mm |
| Diameter | 16mm |
| Continuous worktime | 16H |

>1000   40   >1000   3.2   3.9

Optical Fiber   8-fiber ribbon (1×4: 8-fiber ribbon with 4 center fibers)   Unit: mm

Fig. 1. 1×4 and 1×8 splitter

>1000   40   >1000   3.2   3.9

Optical Fiber   8-fiber ribbon ×2   Unit: mm

Fig. 2. 1×16 splitter

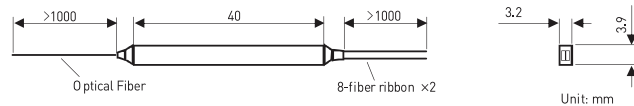>1000   50   >1000   3.2   5.9

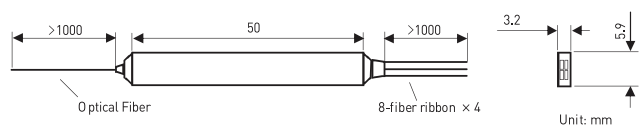Optical Fiber   8-fiber ribbon × 4   Unit: mm
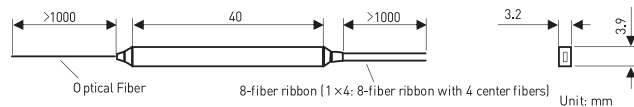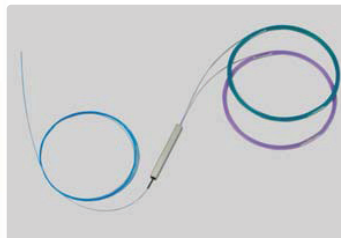
Fig. 3. 1×32 splitter

## 》》》 APPLICATIONS

- FTTx Systems
- LAN, WAN and Metro Networks
- Analog/Digital Passive Optical Networks
- CATV Networks
- Other applications in fiber optic systems

## 》》》 FEATURES & BENEFITS

- Compact designing
- Low insertion loss and low PDL
- High reliability
- High channel counts
- Wide wavelength range
- Large operating temperature range
- Customized packaging and configuration

## 》》》 SPECIFICATION

| Port Configuration | 1x4 | 1x8 | 1x16 | 1x32 |
|---|---|---|---|---|
| Fiber | SMF-28 or SMF-28e | | | |
| Operation Wavelength (nm) | 1260 ~ 1650 | | | |
| Insertion Loss (dB) | ≤7.4/7.2 | ≤10.7/10.5 | ≤13.7/13.5 | ≤16.9/ 16 .5 |
| Uniformity (dB) | ≤0.5 | ≤0.8 | ≤1.2 | ≤1.5 |
| Polarization Dependent Loss (dB) | 0.2 | 0.2 | 0.3 | 0.3 |
| Return Loss (dB) | ≥50 /55 | | | |
| Directivity (dB) | ≥ 55 | | | |
| Operating Temperature ( ℃) | -40 ~ +85 | | | |
| Storage Temperature ( ℃) | -60 ~ +85 | | | |
| Package Dimension (mm) | (L) ×(W)×(H) 40 ×3.9 ×3.2 | (L) ×(W) ×(H) 40 ×3.9 ×3.2 | (L) ×(W) ×(H) 40 ×3.9 ×3.2 | (L) ×(W) ×(H) 50 ×6.0 ×3.2 |

44mm PANEL TYPE

MODULE TYPE

TYPE After build into CARD

### >>> APPLICATIONS

- ITV(CCTV), CATV
- Traffic control SYSTEM
- SECURITY SYSTEM
- ITS SYSTEM
- Produce control SYSTEM
- Video conference SYSTEM

### >>> SPECIFICATION

| ITEM | | CONDITIONS | | REMARK |
|---|---|---|---|---|
| COMPLETE BANDWIDTH | | 10 Hz to 10 MHz | | |
| INPUT / OUTPUT IMPEDANCE | | 75Ω | | Unbalance |
| INPUT / OUTPUT VOLTAGE | | 1 Vp-p | | |
| SIGNAL TO NOISE RATIO | | 60 dB 이상 | | |
| DIFFERENTIAL PHASE | | Under the 4℃ | | Input/output phase difference |
| DIFFERENTIAL GAIN | | Under the 4% | | Input/output disparity |
| OPERATING DISTANCE | | 3, 5, 7, 10, 20, 50, 80㎞ | | It can be 120㎞(OPTION) |
| OPERATING WAVELENGTH | | 850㎚, 1300㎚, 1550㎚ | | |
| FIBER OPTIC CABLE | | Multi-Mode(62.5/125㎛), Single-Mode(9/125㎛) | | 50 / 125㎛(Core/Clad:GI) |
| MODULATION FORM | | P,F,M | | |
| OPTICAL CONNECTOR | | ST TYPE | | OPTION |
| OPERATING TEMPERATURE | | -20℃ to '+50℃ | | -40℃(OPTION) |
| SIGNAL CONNECTOR | | BNC TYPE | | OPTION |
| POWER REQUIREMENT | | AC 110/220V Available | | ±10% |
| DIMENSION OF TYPE | Module | 162(W)×30(H)×100(D) | 125(W)×26(H)×64(D) | OPTION Unit:mm |
| | 44mm PANEL | 483(W)×44(H)×305(D) | 483(W)×44(H)×305(D) | |
| | CARD(Slot0 | 483(W)×132(H)×200(D) | 483(W)×132(H)×200(D) | |

### >>> ORDERING INFORMATION

## FSVF－■K■－TX／RX
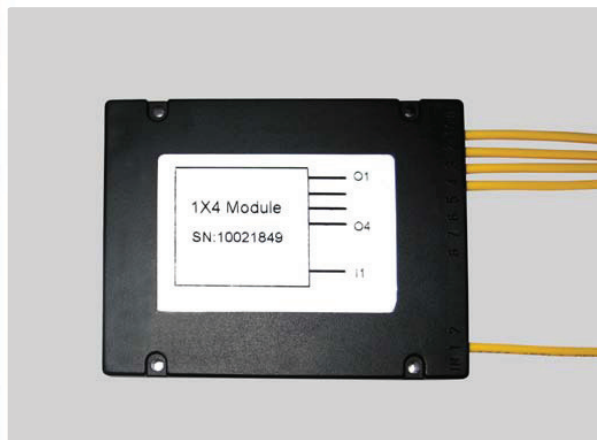
- TX : Transmitter  RX : Receiver
- M : M/M   S : S/M
- Transmission distance
- VIDEO(PFM)LINK
- FOSTEC

>>> **APPLICATIONS**

- CWDM/DWDM System
- CATV System

>>> **FEATURES & BENEFITS**

- Low Insertion Loss
- High Channel Isolation
- Epoxy-Free in Optical Path
- 2,8 Channels Configuration

>>> **SPECIFICATION**

| Parameter | | | Unit | Specifications | |
|---|---|---|---|---|---|
| Channels Number | | | Ch | 4 | 8 |
| Central Wavelength | | | nm | 1470,1490...1610 | |
| Channel Spacing | | | nm | 20 | |
| Channel Passband | | Min | nm | +/-6 5 | |
| Insertion Loss | | Max | dB | 20 | 30 |
| Isolation | Mux | Adjacent Channel | Min | dB | 15 |
| | | Non-adjacent Channel | Min | dB | 15 |
| | De-mux | Adjacent Channel | Min | dB | 30 |
| | | Non-adjacent Channel | Min | dB | 45 |
| Rioole in Passband | | | Max | dB | 0.5 |
| Polarization Dependent Loss | | | Max | dB | 0.15 |
| Directivity | | | Min | dB | 50 |
| Return Loss | | | Min | dB | 45 |
| Polarization Mode Dispersion | | | Max | ps | 0.1 |
| Power Handling | | | Max | mW | 500 |
| Fiber Type | | | | Corning SMF -28/SMF -28e | |
| Operating Temperature | | | °C | 0~70 | |
| Storage Temperature | | | °C | -40~85 | |
| Package Dimension | | | mm | (L)100×(W)80×(H)10 or | |
| | | | | (L)125×(W)96×(H)16" | |

M28876/6 Plug
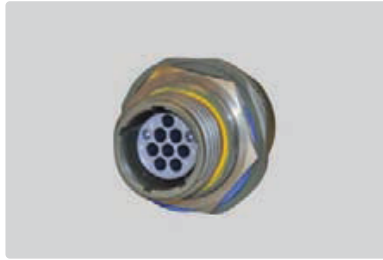
M28876/11 Jam Nut Receptacle

M28876/1 Wall Mount Receptacle

HQM(Hermaphroditic Quad Multiway) connector

Emergency renew Rell Cable

FS3H 1000(4-Channel Hermaphroditic Plug)

Mil SC Connector

Military Grade ST Cord

MTRJ & LC Field Type Connector

## Mil. Dry Core cable

### 〉〉〉 APPLICATIONS

- U.S. Navy shipboard, surface craft and submarines
- Mission critical combat and communications systems
- Mobile tactical shelters electronic battlefield networks
- Mobile Emergency Telecommunications (MET) stations
- Deployable outdoors in harsh environments

### 〉〉〉 FEATURES & BENEFITS

- Precision machined to MIL-PRF-28876, Rev. E specification
- Available in 3 shell sizes: 13 (4 ch), 15 (6, 8 ch), 23 (18, 31 ch)
- Six keying options (plus universal keying for COTS product) for both plugs and receptacles
- Inserts are interchangeable from plug to receptacle. Either can be operated with pins or socket termini
- Fully intermediate with all qualified M28876 connectors
- Operates with all qualified single mode or multi mode M29504/14 and /15 termini
- Complete line of straight, 45 degree and 90 degree back shells
- COTS version available

# Optical Distribution Frames

**Modules**

**Termination Box**

**Distribution Racks**

**Connection Cabinet**

## Optical Fiber Distribution



FOFD-1



FOFD-2



FOFD-3



FOFD-5



FOFD-6



FOCD-1



Ribbon OFD

### 〉〉〉 APPLICATIONS

- Telecommunication networks
- Local Area Networks
- Data system networks
- CATV networks
- Active device termination

### 〉〉〉 FEATURES & BENEFITS

- Low excess loss & high performance
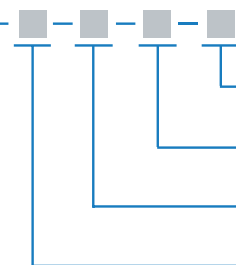- Retractable splicing tray
- Convenience and ease of handing
- Low price

### 〉〉〉 SPECIFICATION

(1U = 44.45mm)

| Parameters | | Unit | FOFD-1 | FODF-2 | FOFD-3 | FOFD-4 | FOFD-5 | FOFD-6 | FOCD-1 | Ribbon OFD | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Fiber Capacity | | Core | ≤24 | ≤24 | ≤24 | ≤48 | ≤96 | 288 | 12 Slot | 144 | 288 | 360 | 432 |
| Number of Tray | | Set | 1 | 1 | 1 or 2 | 2 | 4 | 12 | | 1 | 2 | 3 | 3 |
| Dimension | Height | mm | 1U | 1U | 3U | 5U | 4U | 9U | 4U | 5U | 9U | 11U | 13U |
| | Width | mm | 482 | 482 | 482 | 482 | 482 | 482 | 482 | 482 | 482 | 482 | 482 |
| | Depth | mm | 305 | 305 | 305 | 305 | 305 | 350 | 305 | 305 | 305 | 305 | 305 |
| REMARK | | | Round | Drawing | Round | Panel | Panel | Panel | | | | | |

### 〉〉〉 ORDERING INFORMATION

OFD – ■ – ■ – ■ – ■

Adapter Color [ 1:Blue, 2:Green, 3:Beige, 4:Metal ]

Sleeve Type [ 1:PB, 2:Zr ]

Adapter Type [ 1:SC, 2 :FC, 3 :ST, 4:LC, 5 :MTRJ ]
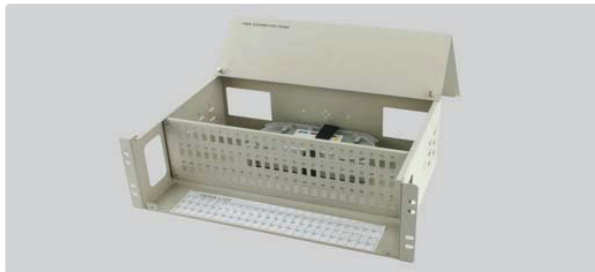
Core [ 1 ~ 192 ]

## FDF(Fiber Distribution Frame)


FDF-1U(12Core, 24Core)


FDF-2U(48Core)


FDF-3U(72Core)


FDF-Wall

### 〉〉〉 APPLICATIONS

- Telecommunication networks
- Local Area Networks
- FTTH
- CATV networks
- Active device termination

### 〉〉〉 FEATURES & BENEFITS

- Low excess loss & High performance
- Retractable splicing tray
- Convenience and ease of handing
- Low price

### 〉〉〉 SPECIFICATION

(1U = 44.45mm)

| Parameters | | Unit | FDF-1U | FDF-2U | FDF-3U | FDF-WALL-24 |
|---|---|---|---|---|---|---|
| Fiber Capacity | | Core | ≤24 | ≤48 | ≤72 | ≤24 |
| Number of Tray | | Set | 1 | 2 | 4 | 2 |
| Dimension | Height | mm | 1U | 2U | 3 | 305 |
| | Width | mm | 482 | 482 | 482 | 305 |
| | Depth | mm | 305 | 305 | 305 | 95 |
| REMARK | | | RACK | RACK | RACK | WALL |

### 〉〉〉 ORDERING INFORMATION

FDF – ▪ – ▪ – ▪ – ▪ – ▪

Adapter Color [ 1:Blue, 2:green, 3:Beige, 4:Metal ]

Sleeve Type [ 1:PB, 2:Zr ]

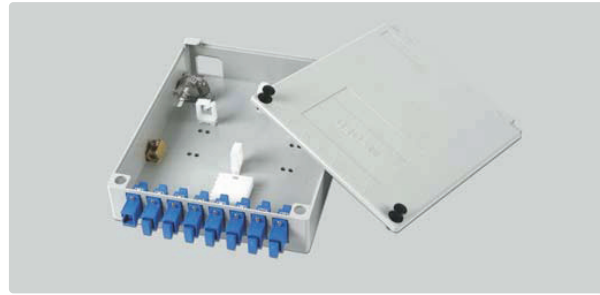Adapter Type [ 1:SC, 2 :FC, 3 :ST, 4:LC, 5 :MTRJ ]

Core [ 1 ~ 72 ]

Type [ R :Rock, W :Wall ]

M - OFD(4C)


M - OFD(8C)


MODP - 4


MODP - 8
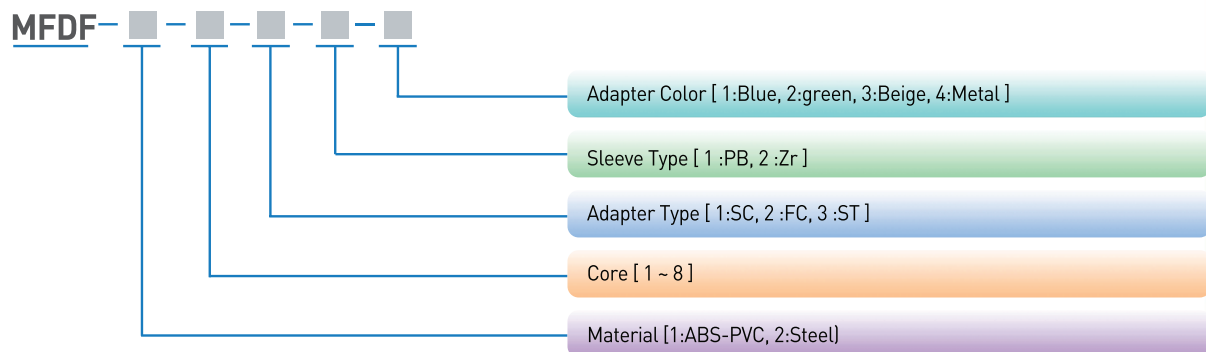
## ⟩⟩⟩ SPECIFICATION

(1U = 44.45mm)

| Parameters | | Unit | M-OFD | | MODP-4 | MODP-8 |
|---|---|---|---|---|---|---|
| Fiber Capacity | | Core | 4 | 8 | 4 | 8 |
| Dimension | Height | mm | 38 | 40 | 30 | 35 |
| | Width | mm | 95 | 145 | 120 | 130 |
| | Depth | mm | 120 | 175 | 140 | 180 |
| Material | | | ABS PVC | ABS PVC | STEEL | STEEL |

## ⟩⟩⟩ ORDERING INFORMATION

MFDF—■—■—■—■—■

Adapter Color [ 1:Blue, 2:green, 3:Beige, 4:Metal ]

Sleeve Type [ 1 :PB, 2 :Zr ]

Adapter Type [ 1:SC, 2 :FC, 3 :ST ]

Core [ 1 ~ 8 ]

Material [1:ABS-PVC, 2:Steel]

Cabinet rack consists of multiple cassette modules providing splicing, distribution and storage function. The 2200 mm cabinet can accommodate multiple modules that are equivalent to more than 1000 fiber connections. It provides more capacity and flexibility for all of your fiber optic needs. The modular design offers high compatibility and easy maintenance providing reliable operation for interconnecting outside plant fiber optic cable with fiber optic equipment.

- Jumper cord guide to identify jumper cord from each module

- Easy identification and distribution

- Wide work space for efficient cable management

- Maintain continuous transmission quality

- Individual module access

| ITEM | RC Rack | Standard Rack | Mini Rack | MDRC-2200 |
|---|---|---|---|---|
| Size | 700 x 750 x 1800mm | 700 x 750 x 1800mm | 750 x 750 x 700 mm | 800 x 600 x 2200 mm |
| No. of FDF | 36 | 40 | 5 | 11 |
| Type of FDF | 1U 12C | 1U 12C | 3U 48C | 4U 144C |
| Fiber Capacity | 432 C | 480 C | 240 C | 1584 C |
| Splice Method | | Fusion, Mechanical | | |
| Cable Diameter | | 8 Dia-32 Dia | | |
| Cable Capacity | | 5-6 | | |
| Connector Type | | SC, FC, ST, LC | | |

Low density cabinet rack is designed to make free connection and distribution between optical line and transmission equipment. It provides much easier work, efficient operation system and high speed optical information and communication.

- Jumper cord guide to identify jumper cord from each module

- Easy identification and distribution

- Wide work space for efficient cable management

- Maintain continuous transmission quality

- Individual module access

- Safe arrangement of cable regardless of movement

| | |
|---|---|
| Size | 900 x 600 x 2200mm |
| No. of Modules | 45U |
| Fiber Capacity | 1152 C |
| Splice Method | Fusion, Mechanical |
| Color | Silver Gray |
| Material | SPCC |

# Optical Fiber Patch Cord

**Patch Cords**

**Pigtails**

**Termination Cables**

# Optical Fiber Patch Cord



Patch Cord



Flexible Cord-1
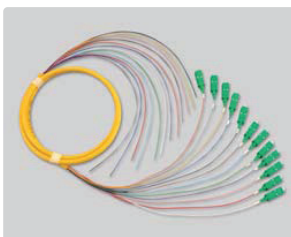


Flexible Cord-2


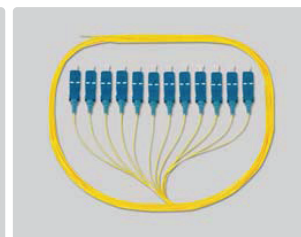
Mode-Conditioning Cord



OUTDOOR



Military Grade ST Cord



MULTI



Pigtail



Mil Type Socket



Mil Type Plug



BDC-Plug



BDC-Receptacle

## ⟩⟩⟩ APPLICATIONS

- Telecommunication networks
- Local Area Networks
- CATV networks
- Active device termination
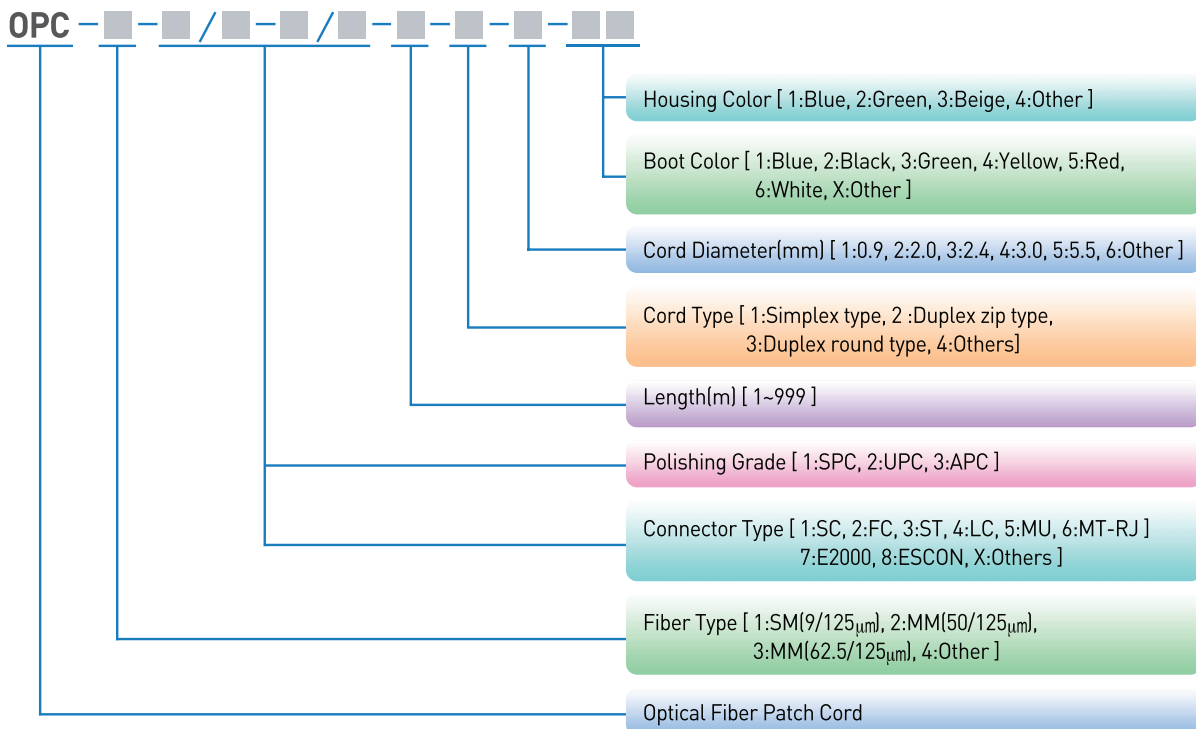- Data system networks

## ⟩⟩⟩ FEATURES & BENEFITS

- Compliant with: JIS C-5973, IEC
- Customer length
- Standard length of SC and FC, ST assemblies in stock
- Customized assemblies available include of lengths, connector styles and performance
- May be tuned for minimum loss
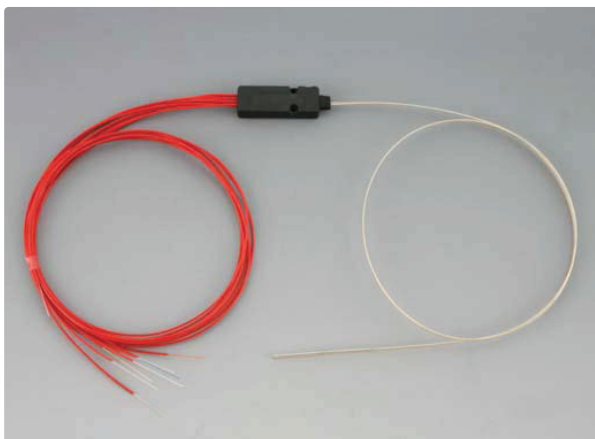- Low price

## ⟩⟩⟩ SPECIFICATION

(Unit :dB)

| Characteristics | Conditions | Value | | |
|---|---|---|---|---|
| | | Min | Type | Max |
| Insertion Loss | | | 0.15 | < 0.40 |
| Return Loss | SPC | 40 | 45 | |
| | UPC | 50 | 55 | |
| | APC | 60 | 65 | |
| Durability | 1,000 mating | | | < 0.20 |
| Temperature Cycling | -40℃ ~ +80℃ | | | < 0.20 |
| Humidity Cycling | 75℃, RH 95% | | | < 0.20 |
| Vibration | 10 ~ 55Hz(3 Axis) | | | < 0.20 |
| Impact | 1.5m drop, 8 cycles | | | < 0.20 |

## ⟩⟩⟩ ORDERING INFORMATION

OPC –☐–☐/☐–☐/☐–☐–☐–☐–☐☐

Housing Color [ 1:Blue, 2:Green, 3:Beige, 4:Other ]

Boot Color [ 1:Blue, 2:Black, 3:Green, 4:Yellow, 5:Red, 6:White, X:Other ]

Cord Diameter(mm) [ 1:0.9, 2:2.0, 3:2.4, 4:3.0, 5:5.5, 6:Other ]

Cord Type [ 1:Simplex type, 2 :Duplex zip type, 3:Duplex round type, 4:Others]

Length(m) [ 1~999 ]

Polishing Grade [ 1:SPC, 2:UPC, 3:APC ]

Connector Type [ 1:SC, 2:FC, 3:ST, 4:LC, 5:MU, 6:MT-RJ ] 7:E2000, 8:ESCON, X:Others ]

Fiber Type [ 1:SM(9/125μm), 2:MM(50/125μm), 3:MM(62.5/125μm), 4:Other ]

Optical Fiber Patch Cord

>>> **APPLICATIONS**

- Telecommunication networks
- CATV networks
- Data Communications networks
- Active device termination
- Instrumentation
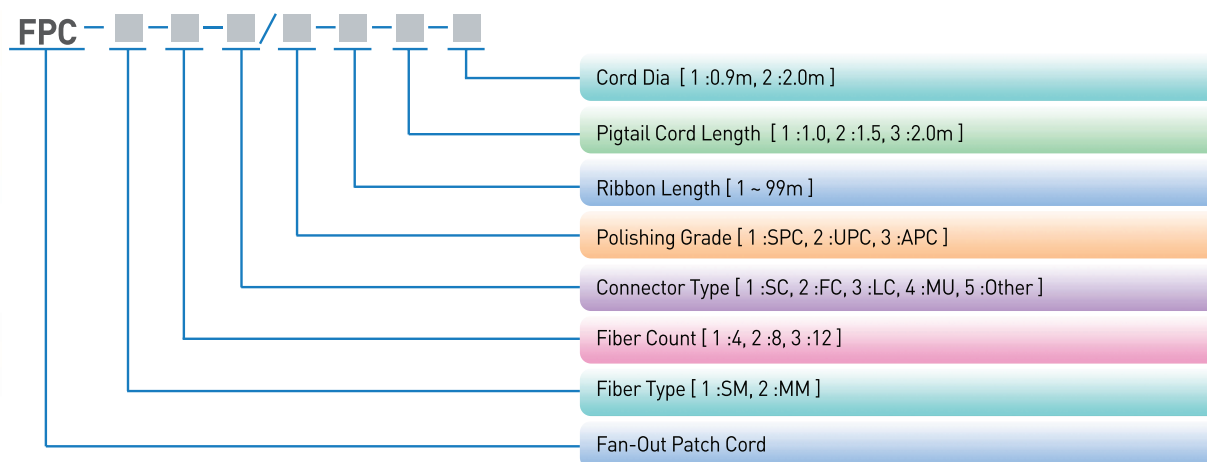- Local Area Networks

>>> **FEATURES & BENEFITS**

- Compliant with : JIS C-5973, IEC, Telcordia
- Optical performance 100% factory tested
- Customized assemblies available including lengths, connector styles and performance
- Precision ceramic ferrule with end face geometry per IEC proposal

>>> **SPECIFICATION**

(Unit :dB)

| Characteristics | Conditions | Value |
|---|---|---|
| Insertion Loss | | >0.30 |
| Return Loss | SPC | >45 |
| | UPC | >55 |
| | APC | >60 |
| Durability | 500mating | <0.20 |
| Temperature Cycling | -40~+ 80℃(42 cycles) | <0.20 |
| Humidity Cycling | 75℃, 95%/336hr | <0.20 |
| Vibration | 10~55Hz(2hr) | <0.20 |
| Flex Test | 0°->90°->0°->90°->0°, 5kgf(100 cycles) | <0.20 |
| Twist Test | φ 0.9mm:0.75kgf, φ2.0mm↑:1.35kgf | <0.20 |
| Impact | 1.5m drop, 8times | <0.20 |

>>> **ORDERING INFORMATION**

**FPC** – ▇ – ▇ – ▇ / ▇ – ▇ – ▇ – ▇

Cord Dia [ 1 :0.9m, 2 :2.0m ]

Pigtail Cord Length [ 1 :1.0, 2 :1.5, 3 :2.0m ]

Ribbon Length [ 1 ~ 99m ]

Polishing Grade [ 1 :SPC, 2 :UPC, 3 :APC ]

Connector Type [ 1 :SC, 2 :FC, 3 :LC, 4 :MU, 5 :Other ]

Fiber Count [ 1 :4, 2 :8, 3 :12 ]

Fiber Type [ 1 :SM, 2 :MM ]

Fan-Out Patch Cord

Optical Fiber Pigtails for terminating the fiber cables are available in all standard connector configurations from 1 Meter to user defined lengths.

## LC Pigtail

| Product Code | Product Description |
| --- | --- |
| PI 0010 A | LC/PC 1 Meter |
| PI 0011 A | LC/PC 3 Meter |
| PI 0012 A | LC/PC 5 Meter |

## FC Pigtail

| Product Code | Product Description |
| --- | --- |
| PI 0004 A | FC/PC 1 Meter |
| PI 0005 A | FC/PC 3 Meter |
| PI 0006 A | FC/PC 5 Meter |

## ST PIgtail

| Product Code | Product Description |
| --- | --- |
| PI 0028 A | SC/PC 1 Meter |
| PI 0029 A | SC/PC 3 Meter |
| PI 0030 A | SC/PC 5 Meter |

## MU Pigtail

| Product Code | Product Description |
| --- | --- |
| PI 0034 A | ST/PC 1 Meter |
| PI 0035 A | ST/PC 3 Meter |
| PI 0036 A | ST/PC 5 Meter |

## MTRJ Pigtail

| Product Code | Product Description |
| --- | --- |
| PI 0016 A | MTRJ/PC 1 Meter |
| PI 0017 A | MTRJ/PC 3 Meter |
| PI 0018 A | MTRJ/PC 5 Meter |
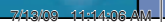
# Optical Fiber Tools

No - Nik Stripper

Loose Tube Stripper  Cleaver

Fiber Stripper

kevlar Shear

Cable Shealth Stripper

Crimping Tool

Fiber Termination

Cable Preparation Tool Kit

Fiber Cleaver

Fiber Blowing Machine

# Optical Fiber Tools

## No-Nik Stripper for 900 mm Fiber

| Product Code | Product Description |
|---|---|
| ST 0072 A | No-Nik stripper for 900 mm fiber |

## Loose Tube Stripper

| Product Code | Product Description |
|---|---|
| ST 0071 A | Loose tube stripper |

## Retractable Diamond Scribe

| Product Code | Product Description |
|---|---|
| RE 0006 A | Retractable Diamond scribe |

## Snap Off Field Cleaver

| Product Code | Product Description |
|---|---|
| SN 0001 A | Snap off field cleaver |

## Universal Crimping Tool

| Product Code | Product Description |
|---|---|
| TO 0022 A | Universal Crimping Tool |

## Fiber Optic Cleaner

| Product Code | Product Description |
|---|---|
| FI 0011 A | Fiber optic cleaner |

## Fiber Stripper for 250 mm Fiber

| Product Code | Product Description |
| --- | --- |
| MI 0013 A | Miller Stripper for 250 mm Fiber |

## Kevlar Shear
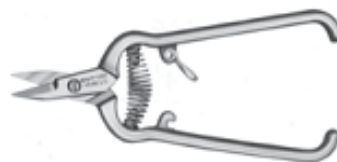
| Product Code | Product Description |
| --- | --- |
| KE 0001 A | Kevlar Shear |

## Fiber Termination Tool Kit

Kit includes :- Polishing paper 0.3 m, 1 m, 5 m, Opticure adhesive, Opticure primer, Syringes, Needle tips, Lint free wipes, Alcohol wipes, Alcohol bottle, Water bottle, Fiber debris disposal container, Safety glasses, Utility box, Felt tipped marker

| Product Code | Product Description |
| --- | --- |
| FI 0017 A | Fiber termination tool kit |

## Fiber Cable Preparation Tool Kit

Provides all tools for field preparation of optical fibers.

The Kit includes Aluminium carrying case with carrying strap, Moulded workstation, Primary coating removal tool, Secondary coating removal tool, Loose tube cutter, Aramid yarn cutting tool, cable sheath remover, Pliers, Scissors, Heavy duty knife, Tweezers, Fiber cleaning solvent dispenser, Aerosol duster spray, Lint free wipes, PVC insulation tape, cable cutter, Central strength member cutter, Copper wire insulation removing tool, Hacksaw, Retractable steel rule, Screw driver, Marker pen, Tackle box

| Product Code | Product Description |
| --- | --- |
| FI 0012 A | Fiber Splicing Tool Kit |

## Cable Sheath Stripper

| Product Code | Product Description |
| --- | --- |
| CU 0001 A | Cutter for cable dia 4mm to 16mm |
| CU 0002 A | Cutter for cable dia 8mm to 28mm |

## Fiber Cleaver

| Product Code | Product Description |
| --- | --- |
| SI 0002 A | Single Fiber Cleaver |
| RI 0001 A | Ribbon Fiber Cleaver |

### Fiber Blowing Machine

The cable blowing machine, comprising an air box and cable pusher, has been designed to provide an effective and safe method of fiber optic cable installation.

The system installs fiberoptic cable of 6mm (0.25") to 32mm (1.25") overall diameter, at speeds up to 90m/min (300ft/min), into pre-installed ducts. The system operates on the viscous drag principle employing compressed air to install the cable, controlled and assisted by a belt drive system.

The cable is propelled by compressed air, fed into the duct on venturi principle, while the hydraulically powered belt drive system controls the fiberoptic cable. The electronic monitoring system provides read out of speed and distance, gives protection against duct obstructions and includes an emergency stop facility.

The system is mounted on an anti corrosion treated, sturdy, height adjustable, wheeled, tubular steel trolley. This allows the unit to be wheeled around on site. Power is provided by the C-1200 hydraulic petrol driven power pack.

Cable Blowing Machine is supplied with sub duct clamps, duct seal collets, cable collets assembly and cable seals to suit any size cable and duct.. Including a hydraulic power and connecting hoses. The machine is ready to commence cable blowing with the addition of an appropriate air compressor.

**Features**
Fully labeled control panel containing:

• Power on/off button
• Emergency stop button
• Reset button
• Combined length counter recording in metres (feet) and cable speed read out in metres/min (feet/min)
• Hydraulic pressure read out dial
• Air pressure read out dial
• Hydraulic on/off control valve
• Adjustable speed control for drive belts
• Air supply control on/off with automatic exhaust function

| Product Code | Product Description |
|---|---|
| FI 0050 A | Fiber Cable Blowing machine |
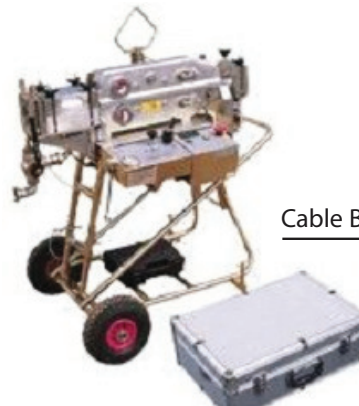
Cable Blowing Machine

Hydraulic Power Pack

Duct Seal Collets

Connecting Hose

Duct Clamp Collets

Cable Collets

Cable Seal