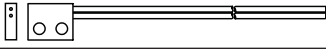
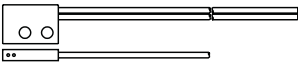
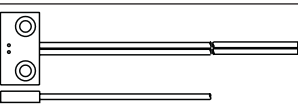
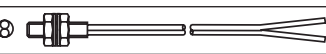
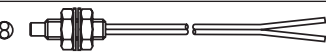
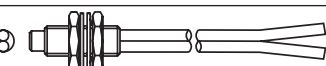

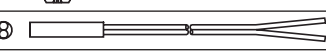
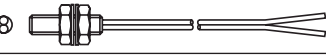
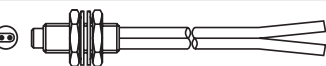
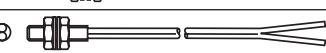







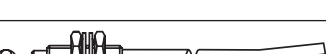
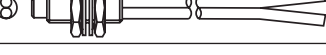

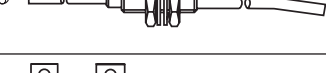


# Fiber Optic Cable

## Specifications (Diffuse Reflective Type)

(based on Non-glossy white paper)

| Type  | Appearance  | Feature                             | Model               | Sensing distance (mm) | Min. sensing target <sup>※3</sup> | Allowable bend radius | Cable length (L) <sup>※4</sup> | Temp.       |
|---|---|-------------------------------------|---------------------|-----------------------|-----------------------------------|-----------------------|--------------------------------|-------------|
| Flexible type <sup>※5</sup>   |    | Flat type /Top view                 | <b>DFDU-210-05R</b> | 35 <sup>※1</sup>      | Ø0.0125                           | R1                    | 1m<br><b>Free cut</b>          | -40 to 60°C |
|   |    | Flat type /Side view                | <b>DFDN-210-05R</b> | 30 <sup>※1</sup>      |                                   |                       |                                |             |
|   |    | Flat type /Flat view                | <b>FDF-210-05R</b>  |                       |                                   |                       |                                |             |
|   |    | M3 Bolt                             | <b>FD-320-05R</b>   | 35 <sup>※1</sup>      | Ø0.0125                           | R1                    | 1m<br><b>Free cut</b>          |             |
|   |    | M4 Bolt                             | <b>FD-420-05R</b>   | 130 <sup>※1</sup>     |                                   |                       |                                |             |
|   |    | M6 Bolt                             | <b>FD-620-10R</b>   |                       |                                   |                       |                                |             |
| Break-resistant type <sup>※5</sup>  |    | M3 Bolt                             | <b>FD-320-06B</b>   | 35 <sup>※2</sup>      | Ø0.0125                           | R5                    | 2m<br><b>Free cut</b>          |             |
|   |    | Ø3 Cylinder type                    | <b>FDC-320-06B</b>  |                       |                                   |                       |                                |             |
|   |    | M4 Bolt                             | <b>FD-420-06B</b>   |                       |                                   |                       |                                |             |
|   |    | M6 Bolt                             | <b>FD-620-13B</b>   | 100 <sup>※2</sup>     |                                   |                       |                                |             |
| Standard type   |    | M3 Bolt                             | <b>FD-320-05</b>    | 40 <sup>※2</sup>      | Ø0.03                             | R15                   | 2m<br><b>Free cut</b>          | -40 to 70°C |
|   |   | M4 Bolt                             | <b>FD-420-05</b>    |                       |                                   |                       |                                |             |
|   |  | Ø3 Cylinder type                    | <b>FDC-320-05</b>   |                       |                                   |                       |                                |             |
|   |  | Ø3 Cylinder type<br>SUS type (15mm) | <b>FDCS-320-05</b>  |                       |                                   |                       |                                |             |
|   |  | M3 Bolt<br>SUS type (90mm)          | <b>FDS-320-05</b>   |                       |                                   |                       |                                |             |
|   |  | M3 Bolt<br>SUS type (45mm)          | <b>FDS2-320-05</b>  |                       |                                   |                       |                                |             |
|   |  | M4 Bolt<br>SUS type (90mm)          | <b>FDS-420-05</b>   |                       |                                   |                       |                                |             |
|   |  | M4 Bolt<br>SUS type (45mm)          | <b>FDS2-420-05</b>  |                       |                                   |                       |                                |             |
|   |  | M6 Bolt                             | <b>FD-620-10</b>    |                       |                                   |                       |                                |             |
|   |  | M6 Bolt<br>SUS type (90mm)          | <b>FDS-620-10</b>   |                       |                                   |                       |                                |             |
|  | M6 Bolt<br>SUS type (45mm)  | <b>FDS2-620-10</b>                  |                     |                       |                                   |                       |                                |             |
|  | Plastic   | <b>FDP-320-10</b>                   | 120 <sup>※2</sup>   | R30                   | R30                               |                       |                                |             |

※1: The sensing distance is a standard for BF5 Series.

※2: The sensing distance is a standard for red LED of BF4 Series and 10% of red LED is applied when it is green LED.

It is applied to 40% of sensing distance for BF3RX.

※3: Min. sensing target is a value measured opaque material in accurate output status and the sensing distance is different with the rated sensing distance ※2.

※4: Fiber optic cable out of the rated length can be customizable.

※5: **Flexible optical fiber (Multi core)** : A large number of ultra-fine cores are all surrounded by cladding. Easy to install it in the many places as the change of the intensity of radiation by bending is small.

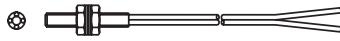
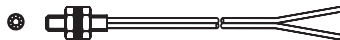
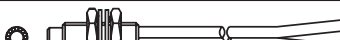

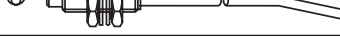



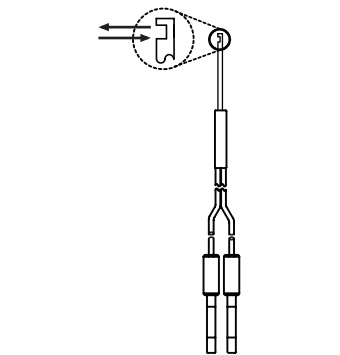
**Break-resistant optical fiber** : The fiber units contain a large number of independent fine fibers, by ensuring a high degree of flexibility. It can be used for moving parts (robot hand) and it is not easily broken.

※ **Free cut** The sensing distance can be shortened about max. 20% than the normal according to condition of the cable. [(FC-3) should be used for cutting fiber cable.]

# Fiber Optic Cable


## ■ Specifications (Diffuse Reflective Type)

(based on Non-glossy white paper)

| Type                | Appearance   | Feature               | Model               | Sensing distance (mm) | Min. sensing target <sup>※3</sup> | Allowable bend radius | Cable length (L) <sup>※4</sup> | Temp.        |
|---------------------|--|-----------------------|---------------------|-----------------------|-----------------------------------|-----------------------|--------------------------------|--------------|
| Coaxial type        |   | M3 Bolt               | <b>FD-320-F</b>     | 40 <sup>※2</sup>      | Ø0.03                             | R15                   | 2m                             | -40 to 70°C  |
|                     |   | M3 Bolt               | <b>FD-320-F1</b>    | 60 <sup>※2</sup>      |                                   |                       |                                |              |
|                     |   | M6 Bolt               | <b>FD-620-F2</b>    | 120 <sup>※2</sup>     |                                   |                       |                                |              |
| Heat-resistant type |   | M6 Bolt               | <b>FD-620-10H</b>   |                       |                                   | 160 <sup>※2</sup>     | R30                            | 2m           |
|                     |   | M6 Bolt               | <b>FD-620-15H1</b>  |                       |                                   |                       |                                |              |
|                     |   | M4 Bolt<br>Glass type | <b>GD-420-20H2</b>  | 100 <sup>※2</sup>     |                                   | R50                   | 2m                             | -40 to 250°C |
|                     |   | M6 Bolt<br>Glass type | <b>GD-620-20H2</b>  |                       |                                   |                       |                                |              |
| Right angle         |   | M6 Bolt               | <b>FDR-610-10R</b>  | 120 <sup>※1</sup>     | Ø0.04                             | R1                    | 1m                             | -40 to 70°C  |
| Side view           |  | Ø3<br>Cylinder type   | <b>FDCSN-320-05</b> | 30 <sup>※1</sup>      | Ø0.0125                           | R15                   | 2m                             | -40 to 60°C  |

## ■ Specifications (convergent reflective type)

(based on Non-glossy white paper)

| Type                       | Appearance  | Feature                    | Model             | Sensing distance (mm) | Min. sensing target <sup>※3</sup> | Allowable bend radius | Cable length (L) <sup>※4</sup> | Temp.       |
|----------------------------|---|----------------------------|-------------------|-----------------------|-----------------------------------|-----------------------|--------------------------------|-------------|
| Convergent reflective type |  | Convergent reflective type | <b>FLF-320-10</b> | 8 <sup>※1</sup>       | Ø0.0125                           | R25                   | 2m                             | -40 to 60°C |

※1: The sensing distance is a standard for BF5 Series.

※2: The sensing distance is a standard for red LED of BF4 Series and 10% of red LED is applied when it is green LED. It is applied to 40% of sensing distance for BF3RX.

※3: Min. sensing target is a value measured opaque material in accurate output status and the sensing distance is different with the rated sensing distance ※2.

※4: Fiber optic cable out of the rated length can be customizable.

※Free cut The sensing distance can be shortened about max. 20% than the normal according to condition of the cable. [(FC-3) should be used for cutting fiber cable.]

※Glass type is for BF5R, BF4R Series.

(A) Photoelectric Sensors

(B) Fiber Optic Sensors

(C) Door/Area Sensors

(D) Proximity Sensors

(E) Pressure Sensors

(F) Rotary Encoders

(G) Connectors/ Sockets

(H) Temperature Controllers

(I) SSRs / Power Controllers

(J) Counters

(K) Timers

(L) Panel Meters

(M) Tacho / Speed / Pulse Meters

(N) Display Units

(O) Sensor Controllers

(P) Switching Mode Power Supplies

(Q) Stepper Motors & Drivers & Controllers

(R) Graphic/ Logic Panels

(S) Field Network Devices

(T) Software

# Fiber Optic Cable

## Specifications (Through-Beam Type)

(based on Non-glossy white paper)

| Type                               | Appearance | Feature                               | Model         | Sensing distance (mm) | Min. sensing target <sup>※3</sup> | Allowable bend radius | Cable length (L) <sup>※4</sup> | Temp.       |
|------------------------------------|------------|---------------------------------------|---------------|-----------------------|-----------------------------------|-----------------------|--------------------------------|-------------|
| Flexible type <sup>※5</sup>        |            | Flat type /Top view                   | FTFU-210-05R  | 110 <sup>※1</sup>     | Ø0.04                             | R1                    | 1m<br>Free cut                 | -40 to 60°C |
|                                    |            | Flat type /Side view                  | FTFN-210-05R  |                       |                                   |                       |                                |             |
|                                    |            | Flat type /Flat view                  | FTF-210-05R   | 100 <sup>※1</sup>     |                                   |                       |                                |             |
|                                    |            | Flat type /Top+Side view              | FTFB-210-05R  | 110 <sup>※1</sup>     |                                   |                       |                                |             |
|                                    |            | Integrated bracket (L type) /Top view | FTLU-310-10R  | 500 <sup>※1</sup>     |                                   |                       |                                |             |
|                                    |            |                                       | FTLU1-310-10R |                       |                                   |                       |                                |             |
|                                    |            |                                       | FTLU2-310-10R |                       |                                   |                       |                                |             |
| Break-resistant type <sup>※5</sup> |            | M3 Bolt                               | FT-320-05R    | 110 <sup>※1</sup>     | Ø0.3                              | 2m<br>Free cut        |                                |             |
|                                    |            | Ø2 Cylinder type                      | FTC-220-05R   |                       |                                   |                       |                                |             |
|                                    |            | M4 Bolt                               | FT-420-10R    | 500 <sup>※1</sup>     |                                   |                       | Ø0.5                           |             |
| Break-resistant type <sup>※5</sup> |            | M3 Bolt                               | FT-320-06B    | 110 <sup>※2</sup>     | Ø0.3                              | R5                    |                                |             |
|                                    |            | Ø1.5 Cylinder type                    | FTC-1520-06B  |                       |                                   |                       |                                |             |
|                                    |            | M4 Bolt                               | FT-420-13B    | 400 <sup>※2</sup>     |                                   |                       | Ø0.6                           |             |

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※3: Min. sensing target is a value measured opaque material in accurate output status and the sensing distance is different with the rated sensing distance ※2.

※4: Fiber optic cable out of the rated length can be customizable.

※5: ● **Flexible optical fiber (Multi core)** : A large number of ultra-fine cores are all surrounded by cladding. Easy to install it in the many places as the change of the intensity of radiation by bending is small.

● **Break-resistant type optical fiber** : The fiber units contain a large number of independent fine fibers, by ensuring a high degree of flexibility. It can be used for moving parts (robot hand) and it is not easily broken.

※ **Free cut** The sensing distance can be shortened about max. 20% than the normal according to condition of the cable. [(FC-3) should be used for cutting fiber cable.]

※FT-420-13 was discontinued. FT-420-13B is replacement.

# Fiber Optic Cable

## Specifications (Through-Beam Type)

(based on Non-glossy white paper)

| Type                | Appearance                 | Feature                             | Model         | Sensing distance (mm) | Min. sensing target <sup>※3</sup> | Allowable bend radius | Cable length (L) <sup>※4</sup> | Temp.        |                   |    |     |          |  |
|---------------------|----------------------------|-------------------------------------|---------------|-----------------------|-----------------------------------|-----------------------|--------------------------------|--------------|-------------------|----|-----|----------|--|
| Standard type       |                            | M3 Bolt                             | FT-320-05     | 150 <sup>※2</sup>     | Ø0.5                              | R15                   | 2m                             | -40 to 70°C  |                   |    |     |          |  |
|                     | <b>Line-up</b><br>         | Ø1.5 Cylinder type                  | FTC-1520-05   |                       |                                   |                       |                                |              |                   |    |     |          |  |
|                     |                            | Ø2 Cylinder type                    | FTC-220-05    |                       |                                   |                       |                                |              |                   |    |     |          |  |
|                     |                            | Ø2 Cylinder type<br>SUS type (15mm) | FTCS-220-05   |                       |                                   |                       |                                |              |                   |    |     |          |  |
|                     |                            | M3 Bolt<br>SUS type (90mm)          | FTS-320-05    |                       |                                   |                       |                                |              |                   |    |     |          |  |
|                     |                            | M3 Bolt<br>SUS type (35mm)          | FTS1-320-05   |                       |                                   |                       |                                |              |                   |    |     |          |  |
|                     |                            | M3 Bolt<br>SUS type (45mm)          | FTS2-320-05   |                       |                                   |                       |                                |              |                   |    |     |          |  |
|                     |                            | M4 Bolt                             | FT-420-10     |                       |                                   |                       |                                |              | 500 <sup>※2</sup> | Ø1 | R30 | Free cut |  |
|                     |                            | Ø3 Cylinder type                    | FTC-320-10    |                       |                                   |                       |                                |              |                   |    |     |          |  |
|                     |                            | Plastic                             | FTP-320-10    |                       |                                   |                       |                                |              |                   |    |     |          |  |
|                     | M4 Bolt<br>SUS type (90mm) | FTS-420-10                          |               |                       |                                   |                       |                                |              |                   |    |     |          |  |
|                     | M4 Bolt<br>SUS type (45mm) | FTS2-420-10                         |               |                       |                                   |                       |                                |              |                   |    |     |          |  |
| Heat-resistant type |                            | M4 Bolt                             | FT-420-10H    | 300 <sup>※2</sup>     |                                   | R30                   |                                | -40 to 105°C |                   |    |     |          |  |
|                     |                            | M4 Bolt                             | FT-420-15H1   | 500 <sup>※2</sup>     |                                   | R50                   |                                | -40 to 150°C |                   |    |     |          |  |
|                     |                            | M4 Bolt<br>Glass type               | GT-420-13H2   | 400 <sup>※2</sup>     |                                   | R25                   | 2m                             | -40 to 250°C |                   |    |     |          |  |
| Right angle         | <b>Line-up</b><br>         | M4 Bolt                             | FTR-410-10R   | 460 <sup>※1</sup>     | Ø0.5                              | R1                    | 1m<br>Free cut                 |              |                   |    |     |          |  |
| Side view           |                            | Ø2.47<br>Cylinder type              | FTCSN-2520-05 | 120 <sup>※1</sup>     | Ø0.0125                           | R15                   | 2m                             | -40 to 60°C  |                   |    |     |          |  |

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※4: Fiber optic cable out of the rated length can be customizable.

※Free cut The sensing distance can be shortened about max. 20% than the normal according to condition of the cable. [(FC-3) should be used for cutting fiber cable.]

※Glass type is for BF5R, BF4R Series.

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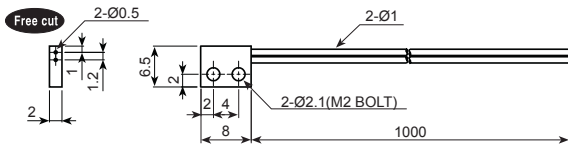
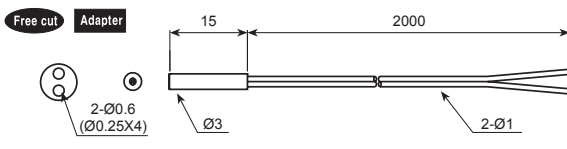
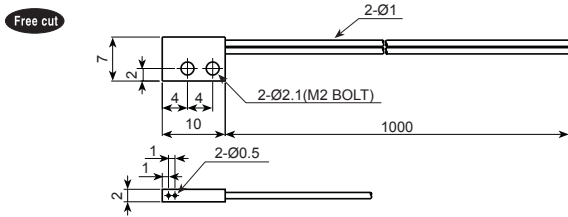
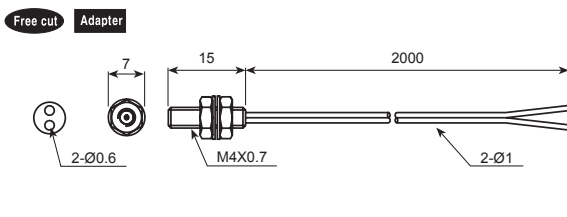
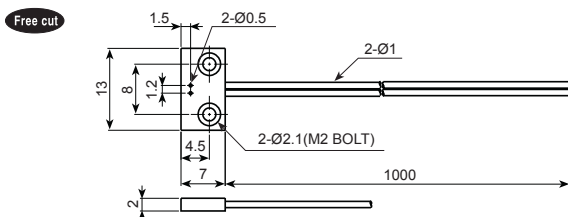
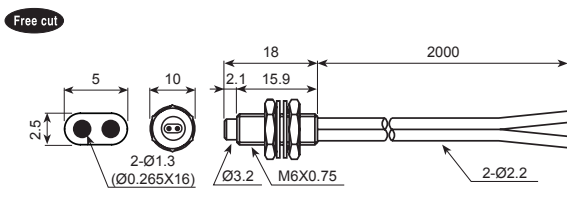
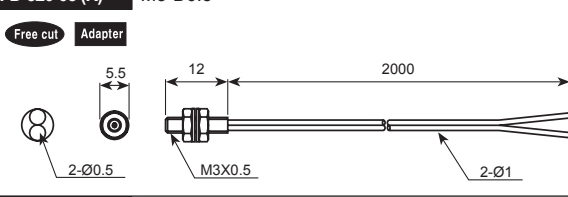
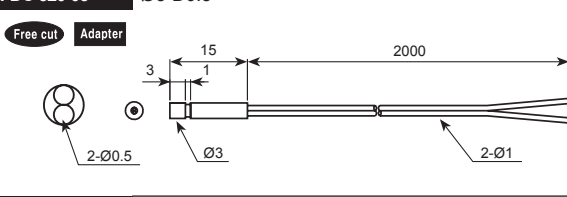
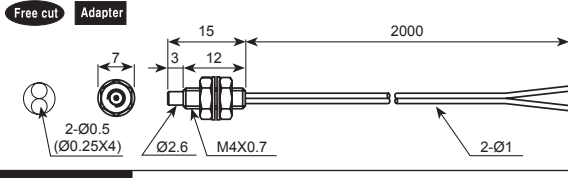
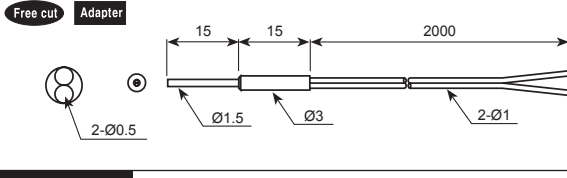
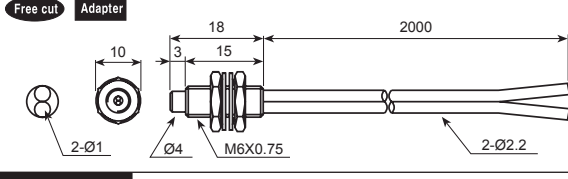
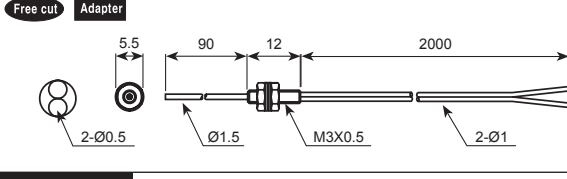
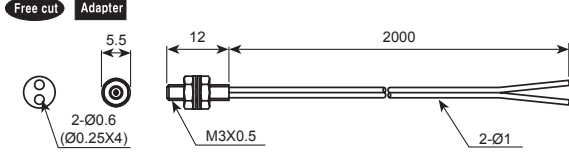
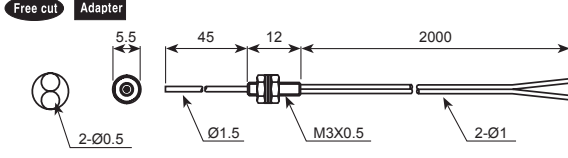
(R) Graphic/ Logic Panels

(S) Field Network Devices

(T) Software

# Fiber Optic Cable

## ■ Dimensions

| Model                | Diffuse reflective type   | Model              | Diffuse reflective type   |
|----------------------|---|--------------------|---|
| <b>FD-FU-210-05R</b> | M2-D0.5 / ※Hood material: Stainless steel type 303<br> | <b>FDC-320-06B</b> | M3-D0.6<br>                               |
| <b>FD-FN-210-05R</b> | M2-D0.5 / ※Hood material: Stainless steel type 303<br> | <b>FD-420-06B</b>  | M4-D0.6<br>                               |
| <b>FD-F-210-05R</b>  | M2-D0.5 / ※Hood material: Stainless steel type 303<br> | <b>FD-620-13B</b>  | M6-D1.3<br>                               |
| <b>FD-320-05 (R)</b> | M3-D0.5<br>   | <b>FDC-320-05</b>  | Ø3-D0.5<br>                              |
| <b>FD-420-05 (R)</b> | M4-D0.5<br>  | <b>FDCS-320-05</b> | Ø3-D0.5 / Stainless steel Ø1.5×15mm<br> |
| <b>FD-620-10 (R)</b> | M6-D1.0<br>  | <b>FDS-320-05</b>  | M3-D0.5 / Stainless steel Ø1.5×90mm<br> |
| <b>FD-320-06B</b>    | M3-D0.6<br>  | <b>FDS2-320-05</b> | M3-D0.5 / Stainless steel Ø1.5×45mm<br> |

# Fiber Optic Cable

## ■ Dimensions

| Model                                  | Diffuse reflective type                                       | Model                                | Diffuse reflective type   |
|--|---|--------------------------------------|---|
| <b>FDS-420-05</b><br>Free cut Adapter  | M4-D0.5 / Stainless steel $\varnothing 1.5 \times 90$ mm      | <b>FD-320-F1</b><br>Free cut Adapter | Co-axial M3 / $\varnothing 0.5$ , $\varnothing 0.25 \times 9$   |
|  |   |                                      |   |
| <b>FDS2-420-05</b><br>Free cut Adapter | M4-D0.5 / Stainless steel $\varnothing 1.5 \times 45$ mm      | <b>FD-620-F2</b><br>Free cut         | Co-axial M6 / $\varnothing 1.0$ , $\varnothing 0.265 \times 16$ |
|  |   |                                      |   |
| <b>FDS-620-10</b><br>Free cut          | M6-D1.0 / Stainless steel $\varnothing 2.5 \times 90$ mm      | <b>FD-620-10H</b><br>Free cut        | M6-D1.0 / Heat-resistant 105°C                                  |
|  |   |                                      |   |
| <b>FDS2-620-10</b><br>Free cut         | M6-D1.0 / Stainless steel $\varnothing 2.5 \times 45$ mm      | <b>FD-620-15H1</b><br>Free cut       | M6-D1.5 / Heat-resistant 150°C                                  |
|  |   |                                      |   |
| <b>FDP-320-10</b><br>Free cut          | D1.0x2 / Plastic  | <b>GD-420-20H2</b>                   | M4-D0.05x1000 / Heat-resistant 250°C                            |
|  |   |                                      |   |
| <b>FD-320-F</b><br>Free cut Adapter    | Co-axial M3 / $\varnothing 0.5$ , $\varnothing 0.25 \times 4$ | <b>GD-620-20H2</b>                   | M6-D0.05x1000 / Heat-resistant 250°C                            |
|  |   |                                      |   |
| <b>FDR-610-10R</b><br>Free cut         | M6-D1.0 / Hood material: Stainless steel type 303             | <b>FDCSN-320-05</b>                  | Ø3 / Stainless steel $\varnothing 1.47 \times 20$ / Side view   |
|  |   |                                      |   |

(A) Photoelectric Sensors

(B) Fiber Optic Sensors

(C) Door/Area Sensors

(D) Proximity Sensors

(E) Pressure Sensors

(F) Rotary Encoders

(G) Connectors/ Sockets

(H) Temperature Controllers

(I) SSRs / Power Controllers

(J) Counters

(K) Timers

(L) Panel Meters

(M) Tacho / Speed / Pulse Meters

(N) Display Units

(O) Sensor Controllers

(P) Switching Mode Power Supplies

(Q) Stepper Motors & Drivers & Controllers

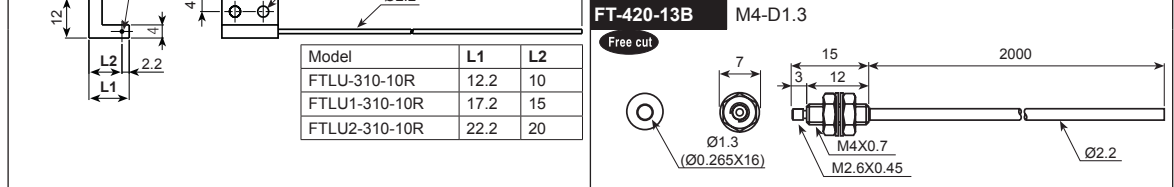
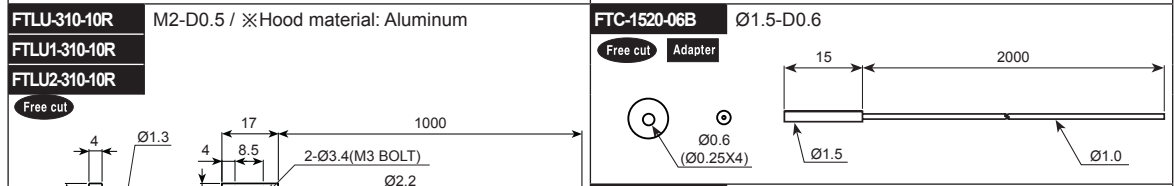
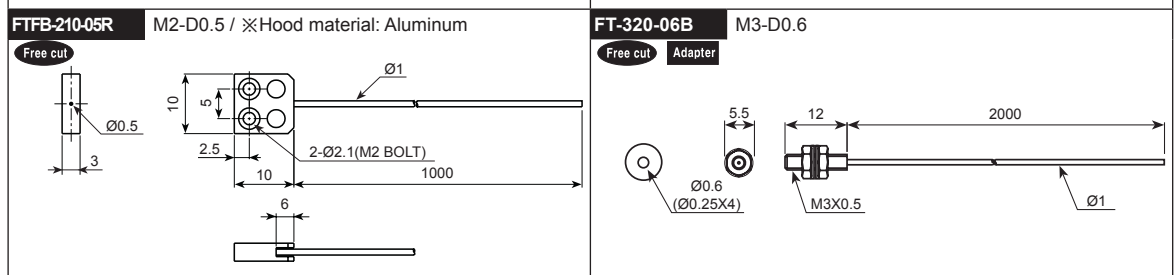
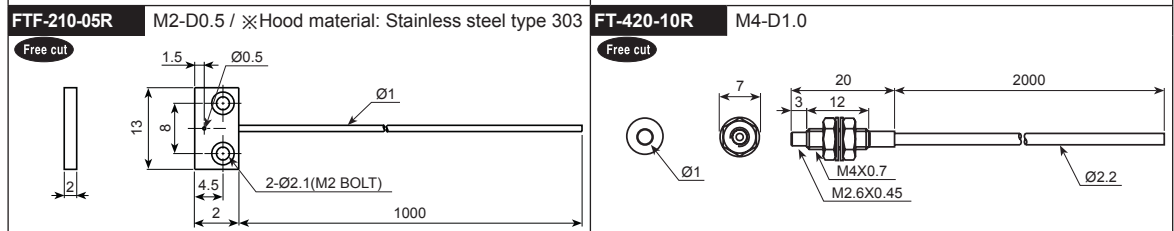
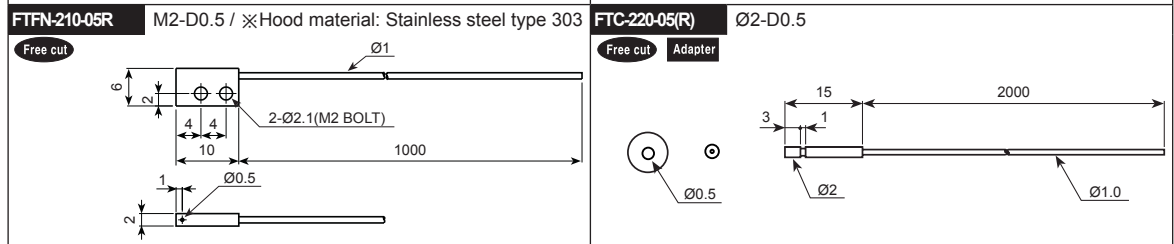
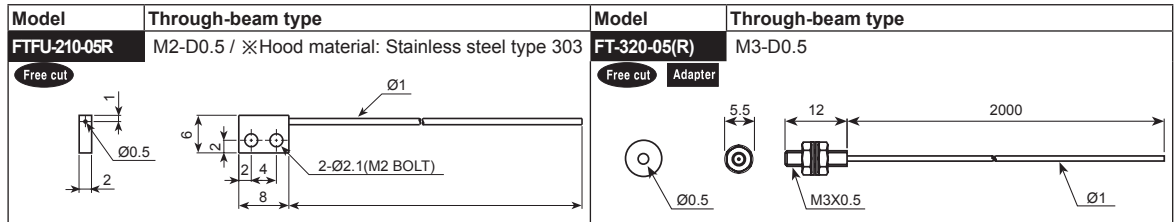
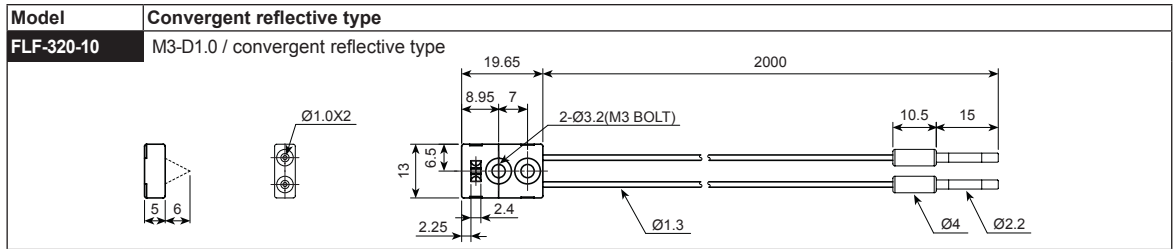
(R) Graphic/ Logic Panels

(S) Field Network Devices

(T) Software

# Fiber Optic Cable

## Dimensions



## ■ Dimensions

| Model                | Through-beam type                                  | Model              | Through-beam type                                |
|----------------------|--|--------------------|--|
| <b>FTC-1520-05</b>   | Ø1.5-D0.5  | <b>FTP-320-10</b>  | D1.0 / Plastic                                   |
| Free cut Adapter     |  | Free cut           |  |
| <b>FTCS-220-05</b>   | Ø2-D0.5 / Stainless steel Ø1.0×15mm                | <b>FTS-420-10</b>  | M4-D1.0 / Stainless steel Ø1.5×90mm              |
| Free cut Adapter     |  | Free cut           |  |
| <b>FTS-320-05</b>    | M3-D0.5 / Stainless steel Ø1.0×90mm                | <b>FTS2-420-10</b> | M4-D1.0 / Stainless steel Ø1.5×45mm              |
| Free cut Adapter     |  | Free cut           |  |
| <b>FTS1-320-05</b>   | M3-D0.5 / Stainless steel Ø1.0×35mm                | <b>FT-420-10H</b>  | M4-D1.0 / Heat-resistant 105°C                   |
| Free cut Adapter     |  | Free cut           |  |
| <b>FTS2-320-05</b>   | M3-D0.5 / Stainless steel Ø1.0×45mm                | <b>FT-420-15H1</b> | M4-D1.5 / Heat-resistant 150°C                   |
| Free cut Adapter     |  | Free cut           |  |
| <b>FT-420-10</b>     | M4-D1.0  | <b>GT-420-13H2</b> | M4-D1.3 / Heat-resistant Max. 250°C / Glass      |
| Free cut             |  | Free cut           |  |
| <b>FTC-320-10</b>    | Ø3-D1.0  | <b>FTR-410-10R</b> | M4-D1.0 ※Hood material: Stainless steel type 303 |
| Free cut             |  | Free cut           |  |
| <b>FTCSN-2520-05</b> | Ø2.47-D0.5 / Stainless steel Ø0.8×15mm / Side view |                    |  |
|                      |  |                    |  |

- (A) Photoelectric Sensors
- (B) Fiber Optic Sensors
- (C) Door/Area Sensors
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- (E) Pressure Sensors
- (F) Rotary Encoders
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- (H) Temperature Controllers
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- (L) Panel Meters
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- (N) Display Units
- (O) Sensor Controllers
- (P) Switching Mode Power Supplies
- (Q) Stepper Motors & Drivers & Controllers
- (R) Graphic/ Logic Panels
- (S) Field Network Devices
- (T) Software



# Fiber Optic Cable

## ■ Lens Unit For Long Distance Detection (sold separately)

### ◎ Model : FTL-M26



### ◎ Mounting of lens

Mount the lens unit on the 3mm projecting point of the front hood.

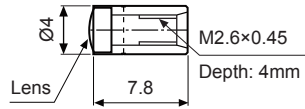
### ◎ Ambient temperature range of lens unit

It should be used within -40 to 100°C. (not over 100°C.)

### ◎ Applicable fiber optic cable and max. mounting distance

- FT-420-10 : 2500mm
- FT-420-10H : 1500mm

### ◎ Dimensions

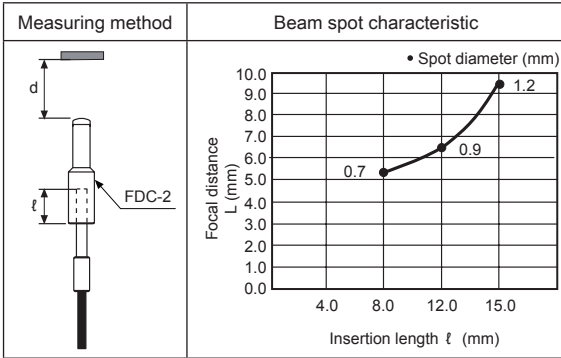


## ■ Micro Spot Fiber Optic Cable And Lens Unit (Sold Separately)

### ◎ Model

- Fiber optic cable: FDC-320-F
- Micro spot lens: FDC-2

### ◎ Feature data

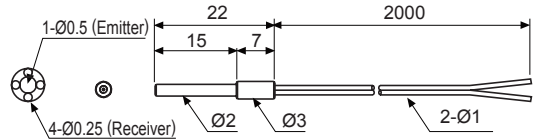


### ◎ Ambient temperature range of lens unit

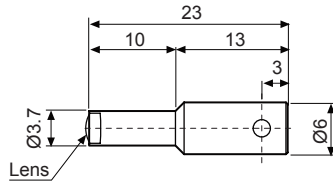
It should be used within -40 to 100°C. (not over 100°C.)

### ◎ Dimensions

#### • FDC-320-F



#### • FDC-2



## ■ Protection Tube For Fiber Optic Cable (Sold Separately)

### ◎ Application

: Protect cable from impact or cutting (unit:mm)

| Model   | Appearance and Dimension | L    |
|---------|--------------------------|------|
| FTH-305 |                          | 500  |
| FTH-310 |                          | 1000 |
| FTH-405 |                          | 500  |
| FTH-410 |                          | 1000 |
| FDH-605 |                          | 500  |
| FDH-610 |                          | 1000 |

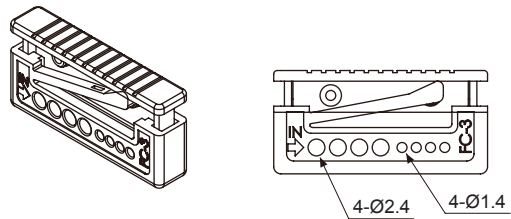
※Additional 8mm is for tube coupling.

## ■ Accessory

### ◎ Fiber cutter

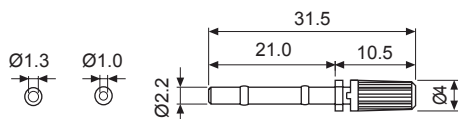
Applications: Cutting fiber optic cable, free cut type

#### • FC-3



### ◎ Adapter

Adapter: Adapter marked fiber optic cable should be used with adapter (unit: mm)



※The inside diameter Ø1.0 (Standard and black)

※The inside diameter Ø1.3 (Only applied to the receiver of FD-320-F1 and dark gray.)