

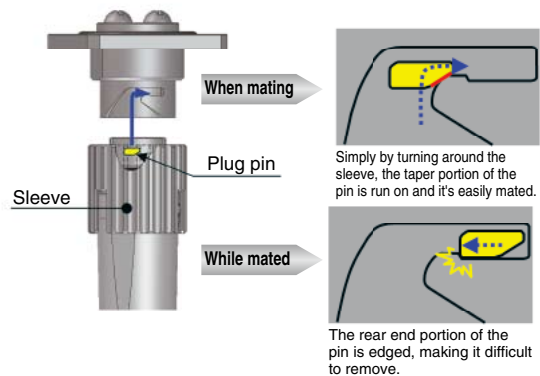
Subminiature, Waterproof Duplex Fiber Optic Connectors

MF10B Series

Waterproof 2pos. Bayonet lock



Highly reliable bayonet lock.



■ Features

1. Micro miniature structure

This micro miniature twin-core waterproof connector consists of a $\phi 1.25\text{mm}$ MU ferrule encased in an internal housing and shell.

2. Integrated structure with excellent vibration and shock resistance

The bayonet lock assures connectors are easily and firmly mated. In addition, mating design resists disengagement, resulting in excellent resistance to vibration and shock, conforming to JIS E 4031 type 5 (vibration) and JIS E 4032 type 2 (shock) for railcar parts.

3. Excellent compatibility with high-intensity, high flexible cables.

For the plug side, a high-intensity optical fiber cable is available for military spec (external cable diameter $\phi 5$ or $\phi 6.5$ mm is the standard specification.)

This cable is light, flexible and suitable for long distance link-ups in outdoor events.

Because of light weight and flexibility, the cable is suitable for long distance extension cable for live broadcast at outdoor events.

* For other cables, please consult factory.

4. Structure with a cleanable ferrule end face

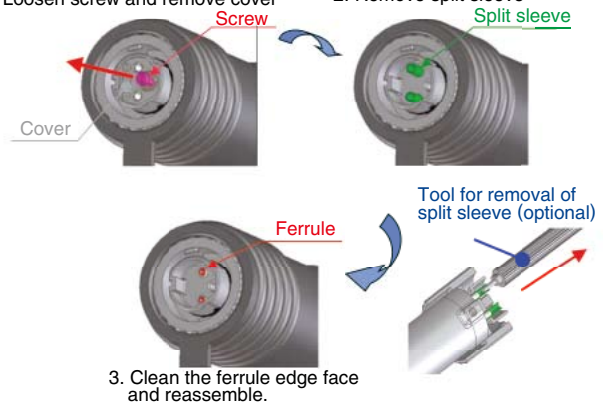
When cleaning the plug ferrule, remove the sleeve from the front to expose the ferrule edge face and thus facilitate cleaning.

5. Varied panel mounting options

Square flange mounting with 4 screws in 4 positions and internal attachment via hexagon nuts are possible. The square flange type with 4 screws can be used for pitches between between 18 and 20mm.

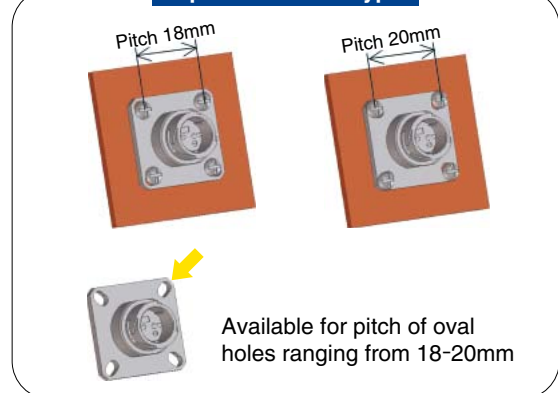
Ferrule with easy-clean structure

1. Loosen screw and remove cover
2. Remove split sleeve

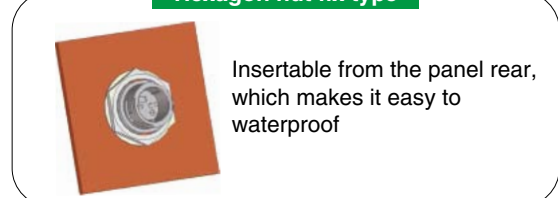


Varied panel attachment method

4-point screw fix type



Hexagon nut fix type



■ Specifications

| Ratings | | Operating Temperature Range | | -40°C to +85°C | Storage Temperature Range | | -25°C to +75°C (at packing) |
|-------------------------------|--|-----------------------------|---|----------------|--|--|--------------------------------|
| Item | | Test Method | | | Requirements | | |
| Optical characteristics | Insertion loss | SM | Wavelength 1310±30nm(LD) | | 1.0 dB MAX. (Typical 0.2 dB) | | |
| | | MM(GI) | Wavelength 1310±30nm(LED) | | 0.5 dB MAX. (Typical 0.1 dB) (Note) | | |
| | Return loss | SM | Wavelength 1310±30nm(LD) | | 40 dB min. | | |
| | | MM(GI) | | | 22 dB min. | | |
| Mechanical characteristics | Durability (mating/un-mating) | | 5,000 times | | 1) Insertion loss fluctuation after test:0.3dB max. 2) No visible damage or components dislocation. | | |
| | Tensile strength(axial) | | A tensile force to cable axially for at 200N(Cable Dia: φ6.5mm), 100N(Cable Dia: φ5mm), 400N(Cable with tension member) | | Insertion loss range:≤0.3dB No Looseness, breakage, cracks | | |
| | Flex Resistant | | 10,000 times at 90 degree, right and left direction. | | | | |
| | Vibration | | 2 hours of the right and left, 4 hours of the vertical direction at an amplitude of 2.3mm and an acceleration 14.8G. | | | | |
| | Shock | | 4 times and 2 directions with the acceleration 88m/s ² and length of effectiveness 0.025s. | | | | |
| Environmental characteristics | Humidity (Temperature/humidity-cycles) | | -10°C to +65°C, humidity: 90% to 96%, 240hours. (24H/cycle×10cycle) | | 1) Insertion loss fluctuation after test:0.3dB max. 2) No visible damage or components dislocation. | | |
| | Temperature cycle | | -40°C to +75°C, 42 cycles | | | | |
| | Dry heat | | 240 hours at +85°C | | | | |
| | Cold | | 240 hours at -40°C | | | | |
| | Salt mist | | Salt mist :5% and temperature 35°C for 1000hours. With the connector hood installed. | | No corrosion. | | |
| | Water resistance(mating) | | Put the product under water for 1min.With air pressure 4.9kPa. | | No air leakage. | | |

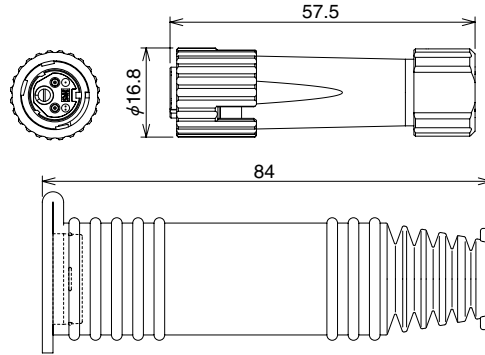
Note: Measured with a 1.5 dB Mode scrambler.

■ Material and Finish

| Part | Material | Finish | Remarks |
|--------------|------------------|---------------------------------------|---------|
| Housing | Zinc die-casting | Nickel plated / Chrome plated (Black) | —— |
| Stopper | Synthetic resin | —— | UL94V-0 |
| Rubber hood | Synthetic rubber | —— | —— |
| Spring | Piano wire | Zinc plated | —— |
| Split sleeve | Zirconia | —— | —— |

■ Plug

● Cable without tension member (Cable dia: 5mm, 6.5mm)



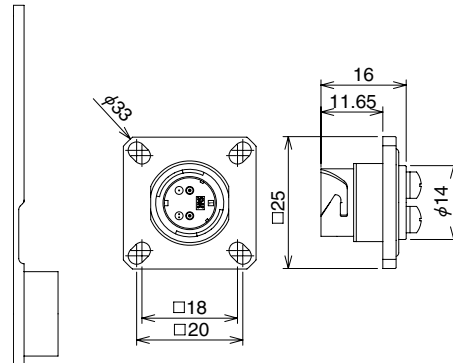
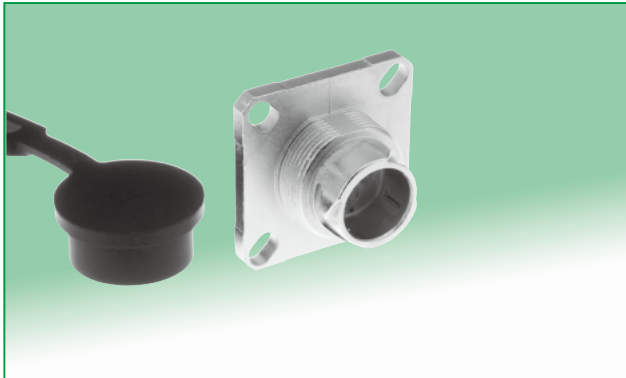
| Part Number | CL No. | Plating |
|----------------------|---------------|---------------|
| MF10B-WP5C01-0200 | 709-1020-8-00 | Nickel |
| MF10B-WP5CH01-0200 | 709-1015-8-00 | Chrome(black) |
| MF10B-WP6.5C01-0200 | 709-1004-1-00 | Nickel |
| MF10B-WP6.5CH01-0200 | 709-1007-0-00 | Chrome(black) |

● Cable with tension member (Cable dia: 7 mm)

| Part Number | CL No. | Plating |
|---------------------|---------------|---------------|
| MF10B-WPS7C01-0200 | 709-1018-6-00 | Nickel |
| MF10B-WPS7CH01-0200 | 709-1024-9-00 | Chrome(black) |

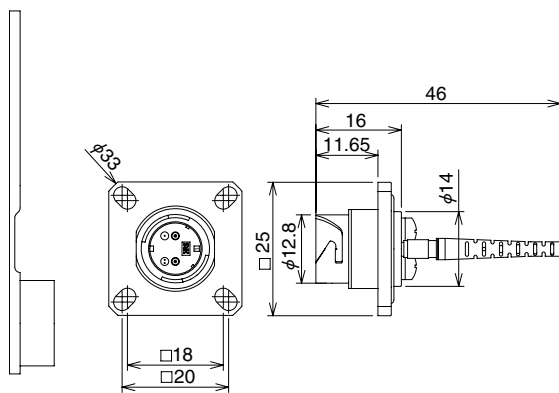
■ Receptacle

● φ0.9 fiber, M3 screw attachment type



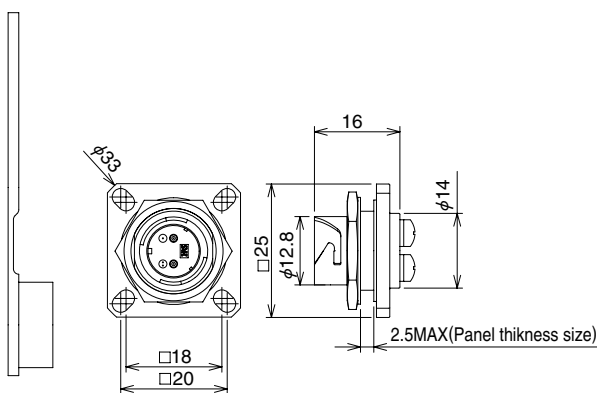
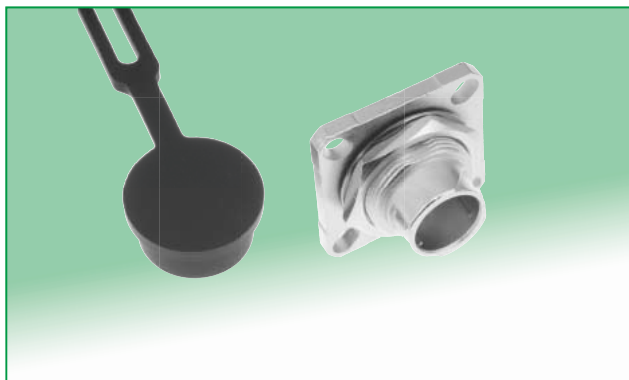
| Part Number | CL No. | Plating |
|-------------------|---------------|---------------|
| MF10B-WRF01-0200 | 709-1005-4-00 | Nickel |
| MF10B-WRFH01-0200 | 709-1008-2-00 | Chrome(black) |

● $\phi 2$ code, M3 screw attachment type



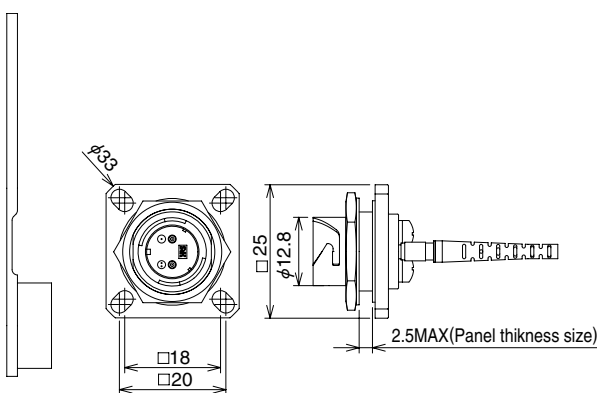
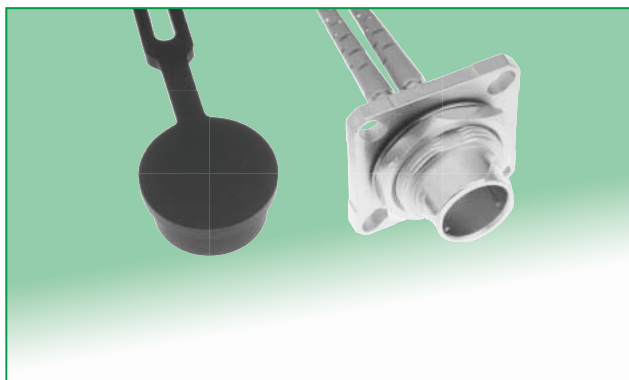
| Part Number | CL No. | Plating |
|--------------------|---------------|---------------|
| MF10B-WRFC01-0200 | 709-1014-5-00 | Nickel |
| MF10B-WRFCH01-0200 | 709-1032-7-00 | Chrome(black) |

● $\phi 0.9$ fiber, hexagon nut attachment type



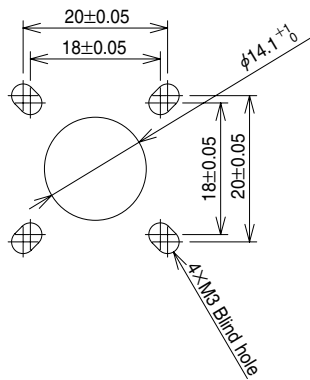
| Part Number | CL No. | Plating |
|-------------------|---------------|---------------|
| MF10B-WRB01-0200 | 709-1010-4-00 | Nickel |
| MF10B-WRBH01-0200 | 709-1025-1-00 | Chrome(black) |

● $\phi 2$ code, hexagon nut attachment type

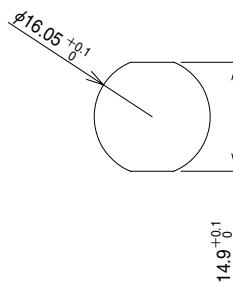


| Part Number | CL No. | Plating |
|--------------------|---------------|---------------|
| MF10B-WRBC01-0200 | 709-1013-2-00 | Nickel |
| MF10B-WRBCH01-0200 | 709-1033-0-00 | Chrome(black) |

■ Recommended panel cutouts



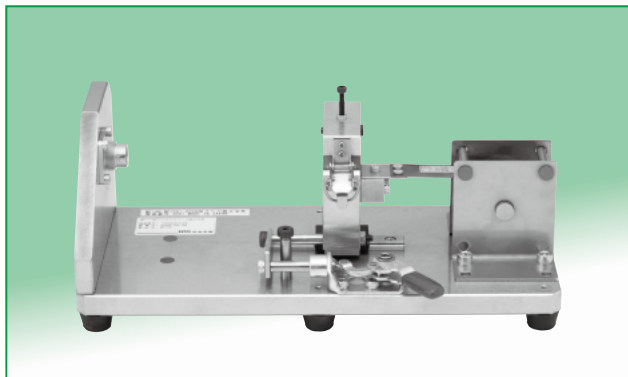
M3 screw attachment type



Hexagon nut attachment type

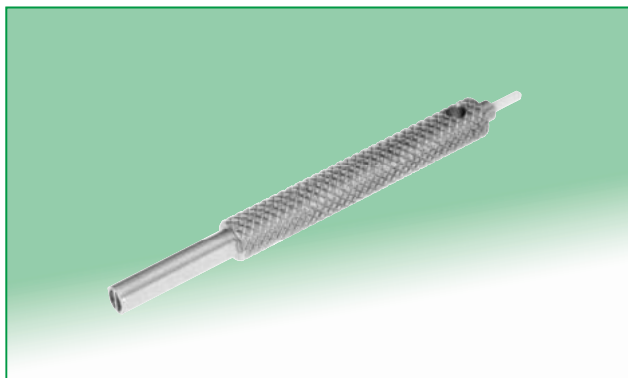
■ Tools

● Plug assembly tool



| Part Number | CL No. |
|------------------------|---------------|
| MF10B-WP7C01-0200/CVMD | 902-6063-0-00 |

● Split sleeve removal tool



| Part Number | CL No. |
|-------------|---------------|
| MF10B-T1 | 709-1034-2-00 |

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