

NEW

Water-Proof Optical Connector with MT Ferrule

MF11BMT Series

IP67

12, 24 pos.

Bayonet lock



■ Features

1. Water-proof multi-pos. connector

MT Ferrule into waterproof metal shell.

2. Bayonet lock

Easy and secure installation and removal with Bayonet lock design.

3. Harsh environments

IP67 water-proof compliant.

4. MPO cleaner can be used

Plug and receptacle can be cleaned with MPO cleaner.

5. 5000 mating times

Robust metal shell enables 5000 insertion/extraction.

■ Usage

Broadcasting camera etc.

■ Product Specifications

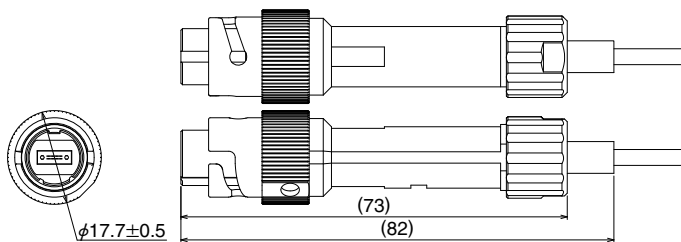
| | | | | |
|---------|-----------------------------|----------------|---------------------------|---------------------------|
| Ratings | Operating temperature range | -20°C to +60°C | Storage temperature range | -40°C to +60°C (packaged) |
|---------|-----------------------------|----------------|---------------------------|---------------------------|

| Item | Testing method | Specifications |
|-----------------------------|---|--|
| Optical performance | | |
| Insertion loss | Wavelength : 850 ± 30nm (LED) | 0.75dB or less (GI) |
| Mechanical characteristic | | |
| Insertion/extraction cycles | 5,000 times | Insertion loss after test : 0.75dB or less (per each connection), No damage, crack or loosened. |
| Vibration resistance | Frequency range : 10 to 55Hz, half amplitude : 0.75mm, acceleration : 98.1m/s ² , bidirection 2 hours each | |
| Shock resistance | Acceleration : 98.1m/s ² , duration : 6ms, half-sin wave in 2 axes, 3 cycles each | |
| Environmental performance | | |
| Temperature/humidity cycles | -10°C to +65°C, humidity : 90% to 96%, 168 hours (12 hours/cycle × 14 cycles) | Insertion loss after test : 0.75dB or less (per each connection), No damage, crack or loosened. |
| Temperature cycles | -40°C to +75°C, 336 hours (8 hours/cycle × 42 cycles) | |
| Heat resistance | +85°C, 240 hours | |
| Cold-resistance | -40°C, 240 hours | |
| Humidity resistance | 75°C, 95% for 168 hours | |
| Salt spray | Concentration : 5%, 240 hours | No corrosion which is effect on the performance. |
| Waterproof | Add 4.9KPa for 1 minute. (IP67) | No leak of bubbles |

■ Materials/ Finish

| Part name | Materials | Finish |
|-----------------------------|-----------------|---------------|
| Plug shell and receptacle | Zinc diecast | Nickel plated |
| Crimp washer Crimp ring | Brass | Nickel plated |
| O-ring, rubber ring, gasket | Silicon rubber | ———— |
| Screw ring | PPS | ———— |
| Spring | Piano wire | Zinc plated |
| Guide pin | Stainless steel | ———— |

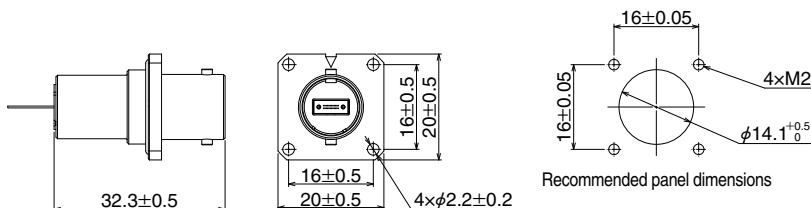
Plug



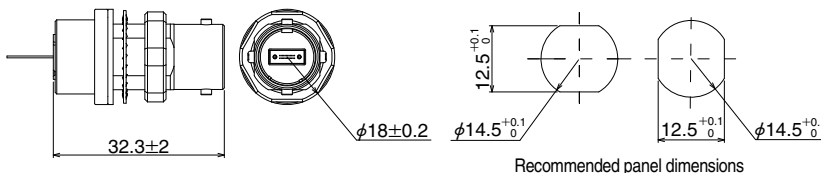
| Part No. | HRS No. | Specification |
|-----------------|---------------|------------------------|
| MF11BMT-WP4CB01 | 709-7003-0 00 | φ4mm cable for 24 pos. |

Receptacle

● M2 screw



● Bulkhead screw type

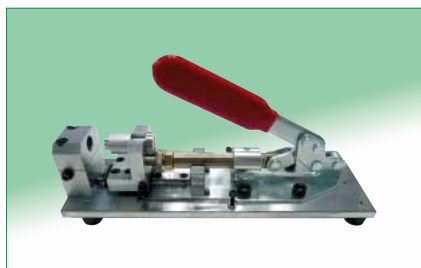


| Part No. | HRS No. | Specification |
|----------------|---------------|---------------------------|
| MF11BMT-WRFB01 | 709-7001-0 00 | Square flange for 24 pos. |
| MF11BMT-WRBB01 | 709-7010-0 00 | Bulk head for 24 pos. |

Tooling

● Retention plate installation tooling

For installing retention plate for the plug or receptacle.



| Part No. | HRS No. |
|-------------------|---------------|
| MF11BMT-W01/CV-MD | 906-6075-0 00 |

● Crimp tool

For crimping the plug retention ring.



| Part No. | HRS No. |
|--------------------|---------------|
| MF11BMT-WP01/CR-MP | 906-6076-0 00 |



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