



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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**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

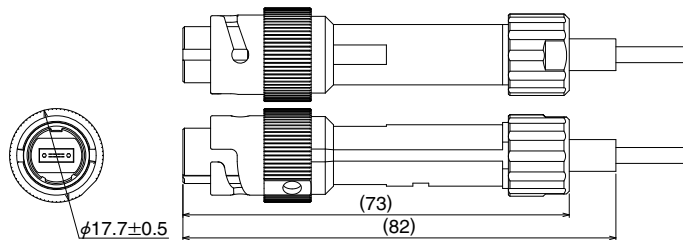
Ratings	Operating temperature range	-20°C to +60°C	Storage temperature range	-40°C to +60°C (packaged)
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Item	Testing method	Specifications
Optical performance		
Insertion loss	Wavelength : 850 ± 30nm (LED)	0.75dB or less (GI)
Mechanical characteristic		
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 <sup>2</sup> , bidirection 2 hours each	
Shock resistance	Acceleration : 98.1m/s <sup>2</sup> , 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	————

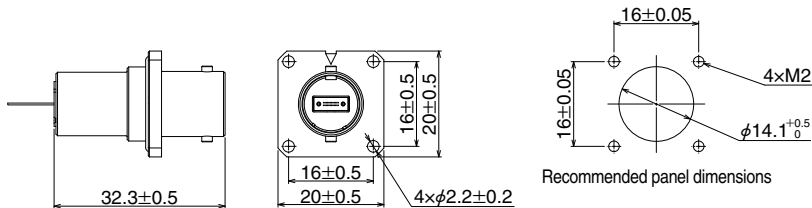
**Plug**



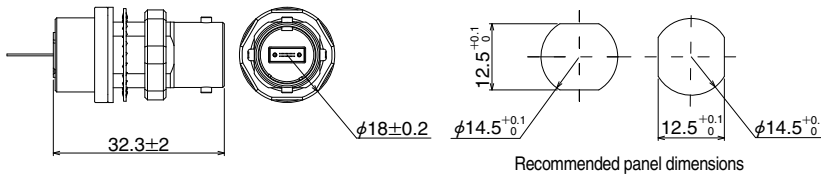
Part No.	HRS No.	Specification
MF11BMT-WP4CB01	709-7003-0 00	φ4mm cable for 24 pos.

**Receptacle**

● M2 screw



● Bulkhead screw type

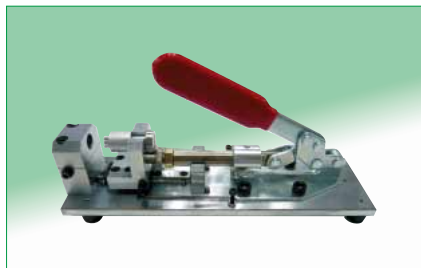


Part No.	HRS No.	Specification
MF11BMT-WRFB01	709-7001-0 00	Square flange for 24 pos.
MF11BMT-WRBB01	709-7010-0 00	Bulk head for 24 pos.

**Tooling**

● Retention plate installation tooling

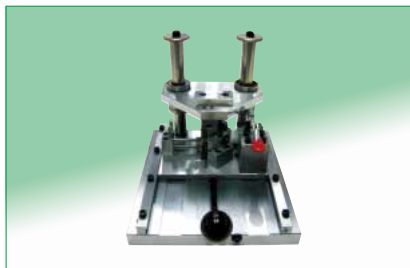
For installing retention plate for the plug or receptacle.



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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