

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

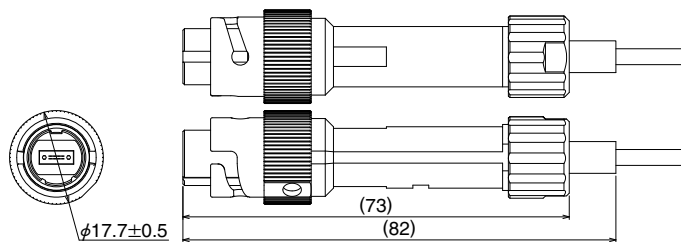
Ratings	Operating temperature range	-20°C to +60°C	Storage temperature range	-40°C to +60°C (packaged)
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Item	Testing method	Specifications
Optical performance		
Insertion loss	Wavelength : 850 ± 30nm (LED)	0.75dB or less (GI)
Mechanical characteristic		
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 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	—————

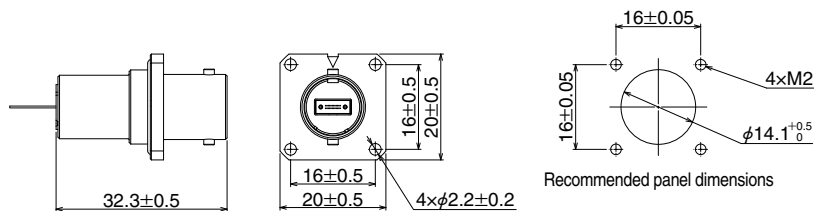
■ Plug



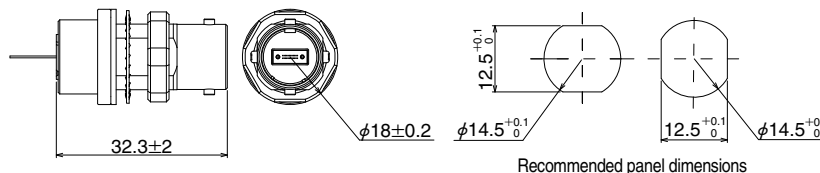
Part No.	HRS No.	Specification
MF11BMT-WP4CB01	709-7003-0 00	$\phi 4$ mm cable for 24 pos.

■ Receptacle

● M2 screw



● Bulkhead screw type

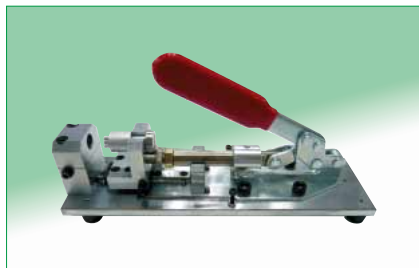


Part No.	HRS No.	Specification
MF11BMT-WRFB01	709-7001-0 00	Square flange for 24 pos.
MF11BMT-WRBB01	709-7010-0 00	Bulk head for 24 pos.

◆ 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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