

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%, 48 hours	No corrosion which is effect on the performance.
Waterproof	Place the product under 1M of water for 30 min (IP67)	No water leaks into the connector.

■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	—————



The characteristics and the specifications contained herein are for reference purpose. Please refer to the latest customer drawings prior to use. The contents of this catalog are current as of date of 02/2020. Contents are subject to change without notice for the purpose of improvements.