



Small Waterproof Optical Multi Pin Push-Pull Connector

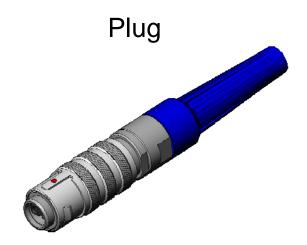
CONNECTOR MB-0131-3 July 2006

FO-MC Series

RoHS Compliant

Receptacle





Outline

The FO-MC Series connector is a small waterproof optical multi contact connector with IP68 water resistance and push–pull lock mechanism. With superior environment resistance and user friendly design, FO-MC is suitable for medical equipment, communication devices, security cameras and in other outdoor optical transmission system related usage.

Features

- ■Water resistant: IP68 waterproof performance (when mated)
- ■Two optical contacts in 11mm dia. plug
- ■Easy, one hand operation of mating/ unmating with push-pull lock
- ■Click sound assures completion of mating procedure.
- ■Color variation of plug boot visually prevents mis-mating

General Specifications

- ■No. of contacts: Two optical contacts
- ■Insertion loss: 0.5dBmax. (when master connector is mated: single point of contact)
- ■Return loss: 40dB min. (SMF), 25dB min. (MMF)
- ■Operating temperature: -40 Deg. C to +85 Deg. C
- ■Waterproof performance: IP68(when mated)
- ■Durability: 500 mating cycle

Materials and Finishes

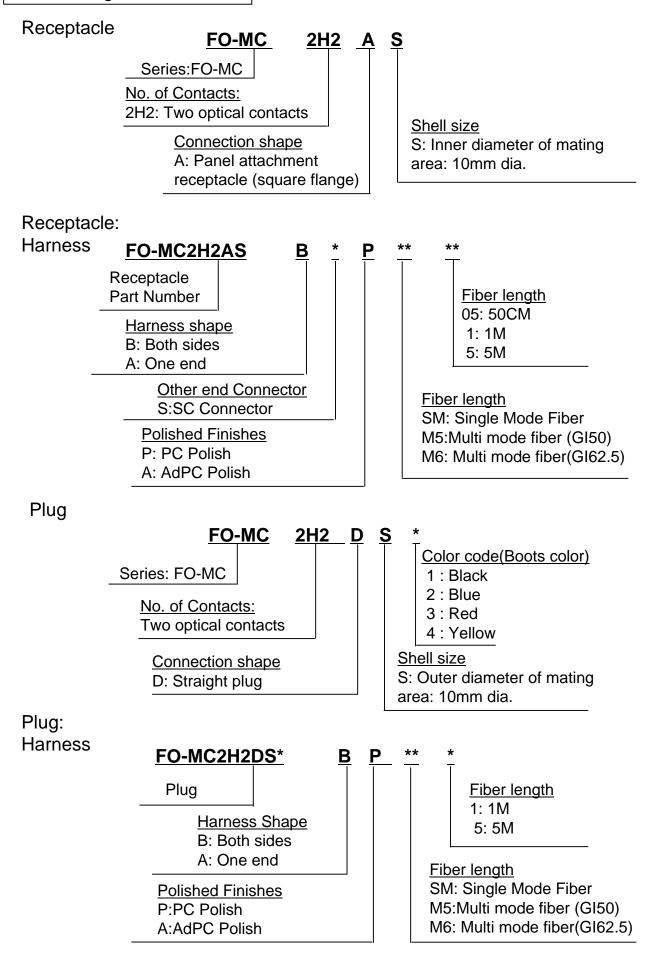
Receptacle

Components	Materials and Finishes		
Shell	Copper Alloy/ Cr plating		
Insulator	Glass filled PBT		
Ferrule	Ceramic, Stainless steel		
Stopper	Stainless		
O Ring (outer side)	Nitrile rubber		
O Ring (inner side)	Nitrile rubber		
Dust Cap	Dust Cap EPDM rubber		

Plug

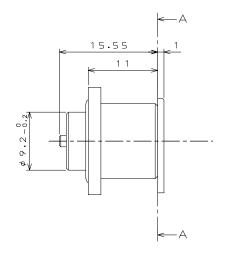
Components	Materials and Finishes	
Barrel	Zinc Alloy/ Ni plating	
Front Insulator	Glass filled PBT	
Rear Insulator	Glass filled PBT	
Coupling Nut	Copper Alloy/ Cr plating	
Lock Spring	Copper Alloy/ Ni plating	
Bushing	EPDM rubber	
Grand Nut	Copper Alloy/ Cr plating	
Cable Clamp	Copper Alloy/ Ni plating	
Boot	Polyester elastomer	
Ferrule	Ceramic, Stainless steel	
Split Sleeve	Ceramic	
Spring	Copper/ Zinc plating	
Collar	Copper alloy	
Stop Ring	Copper alloy/ Ni plating	
Ring	Aluminum alloy	
Dust Cap	EPDM rubber	

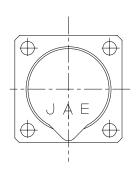
Ordering Information

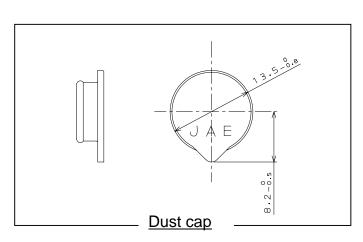


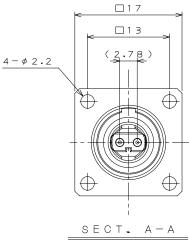
Receptacle

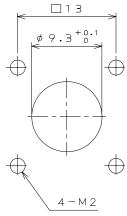
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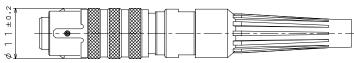


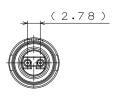


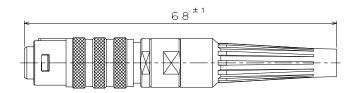
Dimension of Panel Cutout (for reference)

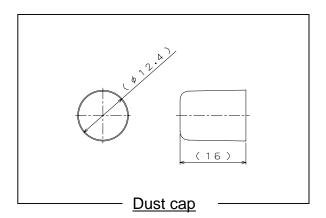
Plug

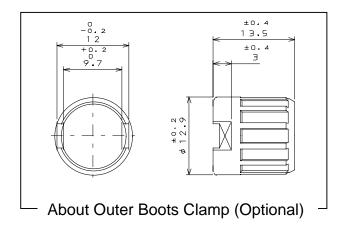
<Part Number: FO-MC2H2DS*>

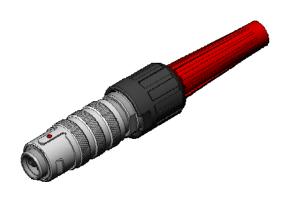












Outer boots clamp when attached

<Application>

Outer boots clamp can be used as reinforcement to prevent lifting and loosening of boot from extreme bending of cable.

Available with and without outer boots clamp, depending on usage and application.

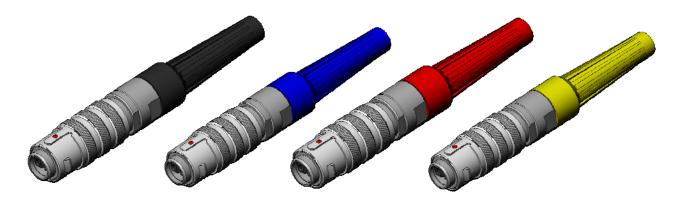
<<Caution>>

Outer boots clamp cannot be removed after assembly.

Color Code

Plug: Boots

Black, Blue, Red, Yellow (4 colors)



Technical References

- *Please contact us concerning products other than the following.
- *Please consult us concerning length and fiber type of cable assembly products.

	Part Number	SJ Drawing	JACS
Receptacle	FO-MC2H2AS	SJ103039	JACS-70026
Plug	FO-MC2H2DS*	SJ103040	JACS-70026

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Notice: Products shown in this leaflet are made for the applications listed below. However, if the above-mentioned products are to be used in aerospace devices, marine cable-connection devices, atomic power control systems, medical equipment for life-support systems, or any other specific application requiring extremely high reliability, please contact JAE for further information.

Recommended applications: Computers, Office machines, Measuring devices,

Telecommunication devices (Terminals, Mobile devices), AV devices, Household applications, FA devices, etc.