

RoHS Compliant

COAXIAL CONNECTORS

2008

CAT.NO.COAX-007A-E.FEB.2008



COAXIAL
CONNECTORS

Japan Aviation Electronics Industry, Ltd.

- FREQUENCY RANGE TO 6GHz
- PLUG-IN COUPLING

CF2 Series

Plug-in small size coaxial connectors that feature a floating mechanism best suited to rack and panel mounting. The floating mechanism provides tolerance for location errors at the time of coupling to ensure good signal and mechanical reliability when multiple units are mounted on the same board or panel.

- Rack and panel plug-in coaxial connectors.
- Floating mechanism offsets location error when mated up to $\pm 1\text{mm}$ in the mating direction and $\pm 0.5\text{mm}$ in the radial direction.
- Allowable inclination angle when mating
 - Horizontal : 1.5 degrees
 - Vertical : 1.5 degrees
- A high degree of reliability provides stable electric continuity and high frequency performance.
- Applications : Base Station for Mobile Communications, Wireless Power Amplifier modules



SPECIFICATIONS

Characteristic Impedance	50 Ω
Frequency Range	DC to 6GHz
D. W. Voltage	AC500Vr.m.s. (1minute)
Insulation Resistance	500 megohms min. (DC500V)
Contact Resistance	Center Contacts : 8 milliohms max. Outer Contacts : 8 milliohms max.
V. S. W. R.	1.2 max. (DC to 3GHz)
Applicable Cables	1.5D-V, 1.5D-W, UT141, UT85

MATERIALS/FINISHES

Description	Materials/Finishes
Pin Contacts	Copper Alloy/Gold Plated over Nickel
Socket Contacts	Copper Alloy/Gold Plated over Nickel
Insulator	PTFE
Shell	Copper Alloy/Gold Plated over Nickel Plug · Front Shell, Receptacle · Right-angle Flange : Copper Alloy/Nickel Plated Plug · Outer Shell : Stainless Steel
Sleeve	Copper Alloy/Nickel Plated
Ferrule	Copper Alloy/Nickel Plated
Flat Washer	Copper Alloy/Nickel Plated
Coil Spring	Piano Wire

In addition to independent cable application type, we also harness products which satisfy your specification are available. Refer to pages 109 to 111 for details.

Guide to Operation Manuals

When using any of these products, please confirm the following operation manuals.

- For 1.5D-V and 1.5D-W cables : J AHL-2184-1
- For 0.085 and 0.141 inch Semi-flexible cables : J AHL-2184-2

CF2 Series

TYPES AND COMBINATIONS

Dimensions in millimeters

Receptacle

●Panel Mount · Straight
P/N : 2 Hole Mount · CF2T001D00



●Panel Mount · Right-angle
P/N : 2 Hole Mount · CF2U001D00



Jack

●Panel Mount · Straight
P/N : 2 Hole Mount · CF2H00※D**

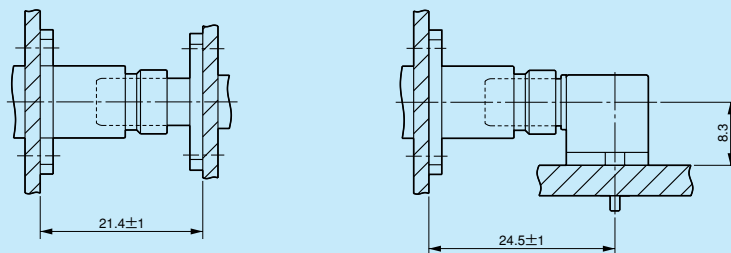


Plug

●Panel Mount · Straight
P/N : 2 Hole Mount · CF2C00※D**



Dimension Between Panels



Adapter



Various adapters are available.
See pages 93 to 107.

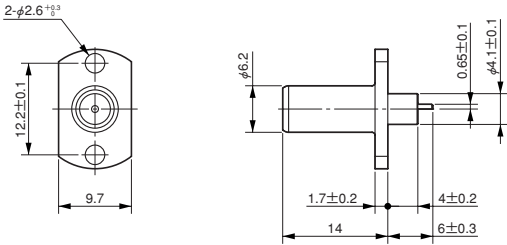
RECEPTACLE

Panel Mount Type

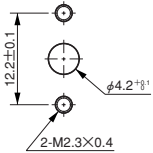
Interchangeable with PLUG (61 Page)

Dimensions in millimeters

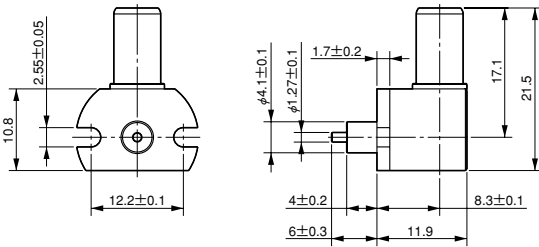
Straight · Two-hole Mount
Part Number : CF2T001D00



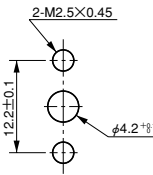
PANEL MOUNTING HOLE PATTERNS (REF.)



Right-angle · Two-hole Mount
Part Number : CF2U001D00



PANEL MOUNTING HOLE PATTERNS (REF.)



CF2 Series

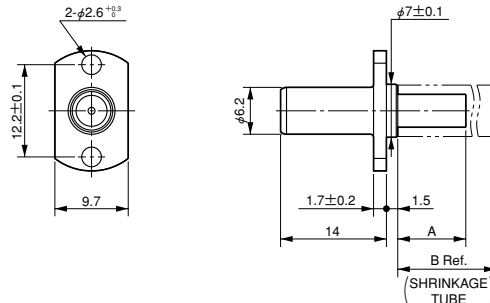
JACK

Panel Mount Type

Interchangeable with PLUG (61 Page)

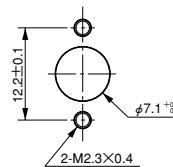
Dimensions in millimeters

Straight · Two-hole Mount



(Note) The picture on the above shows the CF2H001D37.
The shapes of other models vary slightly.

PANEL MOUNTING HOLE PATTERNS (REF.)



Part Number/Dimensions

Cable Type (Equivalent)	Part Number	A	B Ref.
1.5D-2V	CF2H001D37	9	—
1.5D-2W	CF2H002D37	9	20
0.141 inch Semi-flexible	CF2H004DA2	5	15
0.085 inch Semi-flexible	CF2H003DB2	5	13

(Note) Procedure for wire connection...See pages 113 to 120

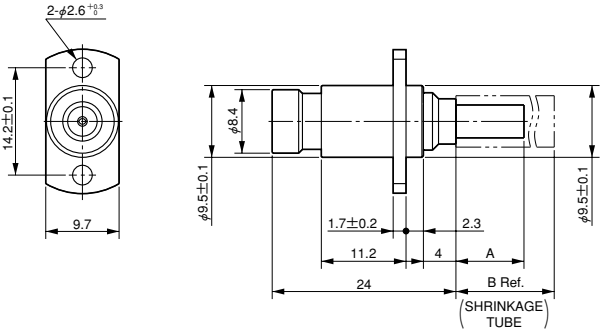
■ PLUG

Panel Mount Type

Interchangeable with RECEPTACLE & JACK (59, 60 Page)

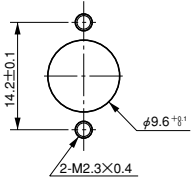
Dimensions in millimeters

■ Straight · Two-hole Mount



(Note) The picture on the above shows the CF2C001D37.
The shapes of other models vary slightly.

PANEL MOUNTING HOLE PATTERNS (REF.)



■ Part Number/Dimensions

Cable Type (Equivalent)	Part Number	A	B Ref.
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(Note) Procedure for wire connection...See pages 113 to 120

Before placing an order

- ①The values specified in this catalogue are only for reference. The products and specifications are subject to change without notice. Contact our sales staff for further information before considering or ordering any of our products. For purchase, a product specification must be agreed upon.
- ②Users are requested to provide protection circuits and redundancy circuits to ensure safety of the equipment, and sufficiently review the suitability of JAE's products to the equipment.
- ③The products presented in this catalogue are designed for the uses recommended below. We strongly suggest you contact our sales staff when considering use of any of the products in any other way than the recommended applications or for a specific use that requires an extremely high reliability.

(1)Applications that require consultation:

- (i)Please contact us if you are considering use involving a quality assurance program that you specify or that is peculiar to the industry, such as:
Automotive electrical components, train control, telecommunications devices (mainline), traffic light control, electric power, combustion control, fire prevention or security systems, disaster prevention equipment, etc.
- (ii)We may separately give you our support with a quality assurance program that you specify, when you think of a use such as:
Aviation or space equipment, submarine repeaters, nuclear power control systems, medical equipment for life support, etc.

(2)Recommended applications include:

Computers, office appliances, telecommunications devices (terminals, mobile units), measuring equipment, audiovisual equipment, home electric appliances, factory automation equipment, etc.

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