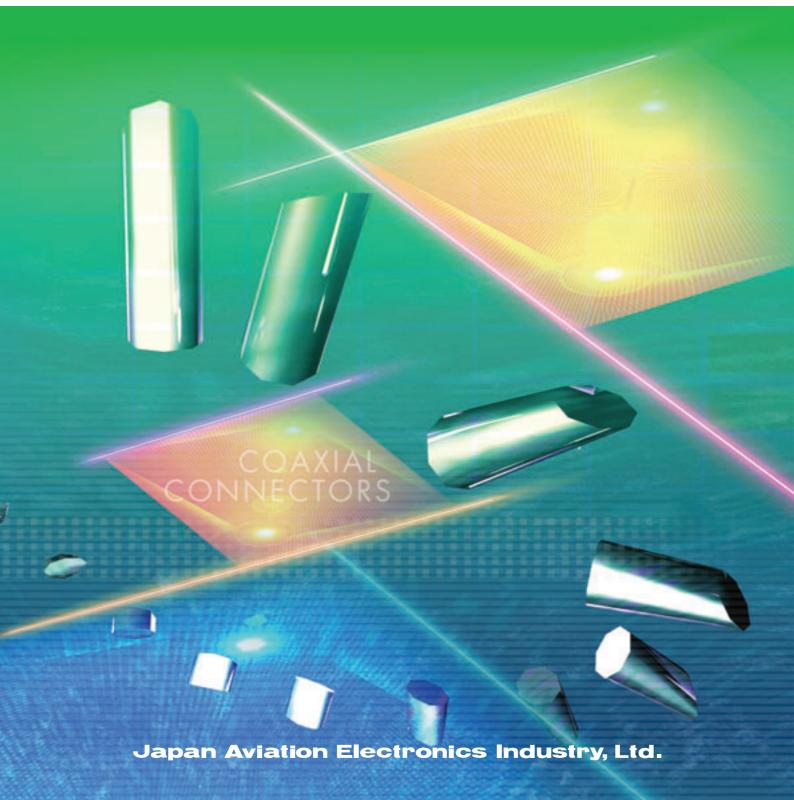


**RoHS Compliant** 

# **COAXIAL CONNECTORS**

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

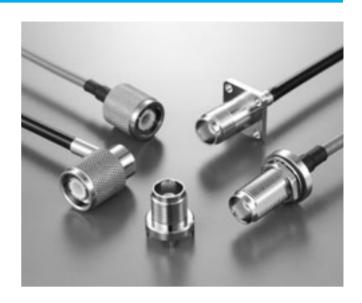


- **FREQUENCY RANGE TO 3GHz**
- **THREADED COUPLING (7/16-28UNEF)**

## TNC Series

TNC series middle size coaxial connectors conform to the general purpose standards (IEC60169-17), designed with threaded coupling. Applicable frequencies: from DC up to 3GHz. High performance with a VSWR (voltage standing wave ratio) of 1.2 or less.

- A wide variety of products enable various mounting styles.
- Environmental middle size connectors with rugged vibration proof construction.
- A high degree of reliability provides stable electric continuity and high frequency performance.
- Applications: Base Station for Mobile Communications,
   Communications Equipment, Measuring Instruments



#### **SPECIFICATIONS**

Characteristic Impedance	50 Ω
Frequency Range	DC to 3GHz
D. W. Voltage	AC500Vr.m.s. (1minute)
Insulation Resistance	500 megohms min. (DC500V)
Contact Resistance	Center Contacts: 10 milliohms max. Outer Contacts: 10 milliohms max.
V. S. W. R.	1.2 max. (DC to 3GHz)
Applicable Cables	1.5D-V, 1.5D-W, 2.5D-V, UT85

#### **MATERIALS/FINISHES**

Description	Materials/Finishes	
Contacts	Copper Alloy/Gold Plated over Nickel	
Insulator	PTFE	
Shell	Copper Alloy/Nickel Plated	
Hexagon Nut	Copper Alloy/Nickel Plated	
Toothed Lock Washer	Stainless Steel	
O-ring	NBR and Silicon Rubber (Black)	
C-ring	Copper Alloy/Nickel Plated	
Sleeve	Copper Alloy/Nickel Plated TNCA003DB2: Copper Alloy/ Gold Plated over Nickel	
Gasket	Silicon Rubber (Brick Red)	
Ferrule	Copper Alloy/Nickel Plated	

Products applicable up to abuout 3 GHz are available. For detail, please consult us.

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

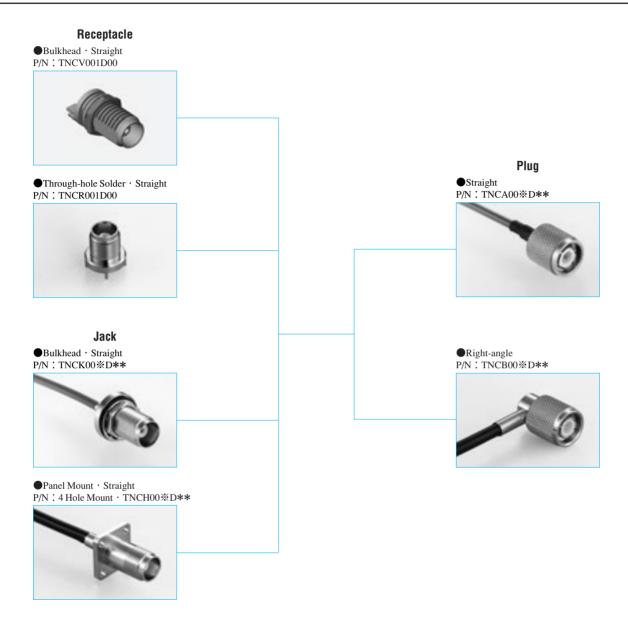
When using any of these products, please confirm the following operation manuals.

• For 1.5D-V and 1.5D-W cables : JAHL-2050-1 • For 2.5D-V cables : JAHL-2050-2

· For 0.085 inch

Semi-flexible cables : JAHL-2050-3

### TYPES AND COMBINATIONS



Dust Cap (For Receptacle & Jack)



See page 41

#### **Adapter**



Various adapters are available. See pages 93 to 107.

## RECEPTACLE

## **Bulkhead Type · Through-hole Solder Type**

#### Intermatable with PLUG (40 Page)

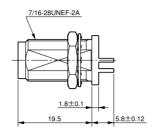
Dimensions in millimeters

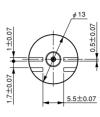
■Bulkhead · Straight

Part Number: TNCV001D00

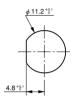








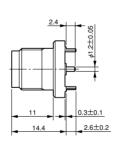
PANEL MOUNTING HOLE PATTERNS (REF.)
(PANEL THICKNESS: 1 to 4mm)

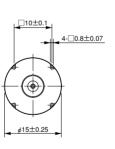


■Through-hole Solder · Straight Part Number : TNCR001D00

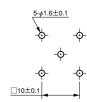








PC BOARD LAYOUT • MOUNTING SIDE (REF.)



## **JACK**

## **Bulkhead Type**

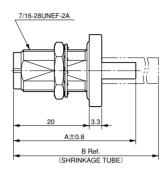
#### Intermatable with PLUG (40 Page)

Dimensions in millimeters

#### **■**Straight

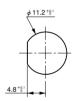






 $(Note) \begin{tabular}{ll} The picture on the above shows the TNCK001D37. \\ The shapes of other models vary slightly. \\ \end{tabular}$ 

PANEL MOUNTING HOLE PATTERNS (REF.)
(PANEL THICKNESS: 2 to 5mm)



#### ■Part Number/Dimensions

Cable Type (Equivalent)	Part Number	A	B Ref.
1.5D-2V	TNCK001D37	9	
1.5D-2W	TNCK004D37	9	19.9
2.5D-V	TNCK002D13	10	_

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

## **JACK**

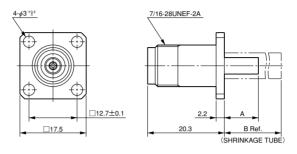
## **Panel Mount Type**

#### Intermatable with PLUG (40 Page)

Dimensions in millimeters

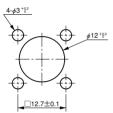
#### ■Straight · Four-hole Mount





 $\begin{array}{c} \hbox{(Note) The picture on the above shows the TNCH001D37.} \\ \hbox{The shapes of other models vary slightly.} \end{array}$ 

#### PANEL MOUNTING HOLE PATTERNS (REF.)



#### **■**Part Number/Dimensions

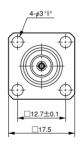
Cable Type (Equivalent)	Part Number	A	B Ref.
1.5D-2V	TNCH001D37	9	
1.5D-2W	TNCH005D37	9	20
2.5D-2V	TNCH002D13	10	_

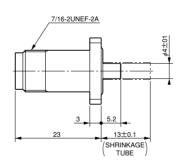
(Note) Procedure for wire connection…See pages 113 to 120

#### ■Straight · Four-hole Mount Waterproof

Part Number: TNCH003DB2



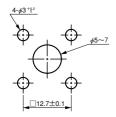




Applicable Cables: 0.085inch Semi-flexible Cable Equivalent

(Note) Procedure for wire connection  $\cdots$  See pages 113 to 120

#### PANEL MOUNTING HOLE PATTERNS (REF.)



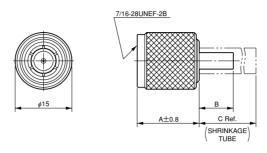
#### **PLUG**

#### Intermatable with RECEPTACLE (37 Page) & JACK (38, 39 Page)

Dimensions in millimeters

#### **■**Straight





(Note) The picture on the above shows the TNCA001D37. The shapes of other models vary slightly.

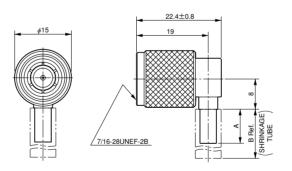
#### ■Part Number/Dimensions

Cable Type (Equivalent)	Part Number	A ±0.8	В	C Ref.
1.5D-2V	TNCA001D37	16.4	9	
1.5D-2W	TNCA005D37	16.4	9	20
2.5D-2V	TNCA002D13	16	10	_
0.085 inch Semi-flexible	TNCA003DB2	17.6	5	13

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

#### **■**Right-angle





 $(Note)\ The\ picture\ on\ the\ above\ shows\ the\ TNCB001D37.\ The\ shapes\ of\ other\ models\ vary\ slightly.$ 

#### **■**Part Number/Dimensions

Cable Type (Equivalent)	Part Number	A	B Ref.	
1.5D-2V	TNCB001D37	9	_	
1.5D-2W	TNCB003D37	9	20	
2.5D-2V	TNCB002D13	10	_	

(Note) Procedure for wire connection  $\cdots$  See pages 113 to 120

## **■DUST CAP** (For Receptacle & Jack)

Dimensions in millimeters

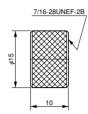
#### **■**Without Chain





Material : Copper Alloy



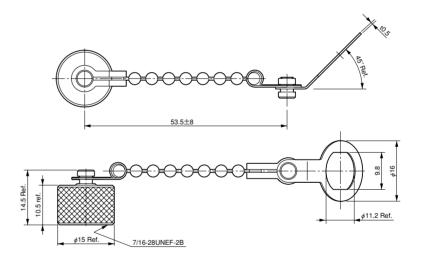


#### With Chain

Part Number: TNC0D00003-R



• Material: Copper Alloy



#### 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:

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