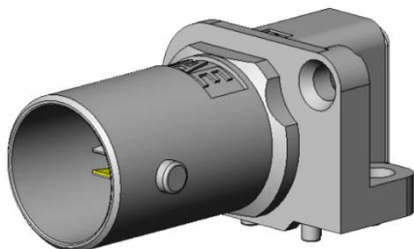


CONNECTOR  
MB-0329-3  
December 2018

# 12G-SDI BNC Connector

**RoHS Compliant**



**Right Angle DIP Type**

**Part Number: BNC0S111C00**



**Straight DIP Type**

**Part Number: BNC0T101C00**

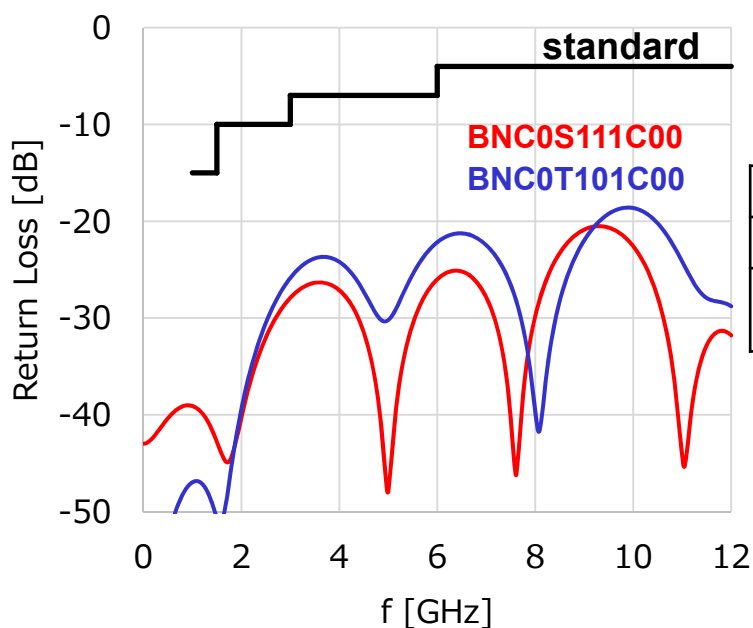
This BNC type connector is for 12G-SDI 75 [ $\Omega$ ] which is standardized by SMPTE/ITU (SMPTE-STD-2081-1, 2082-1) for 4K / 8K broadcast connection.

## Applicable Market

Connections between 4K / 8K broadcasting equipment and other various devices

## Features

■ Compact, light weight and superior impedance matching



|                | BNC0S111C00 | BNC0T101C00 |
|----------------|-------------|-------------|
| Weight         | 6.5g        | 5.6g        |
| Mounting Pitch | 16mm        | 16mm        |

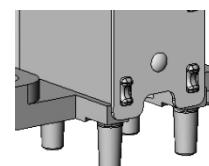
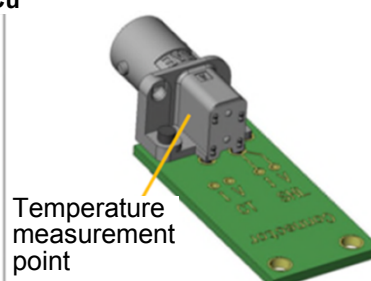
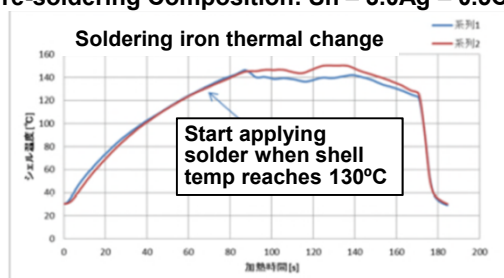
## ■ Superior Mountability

- Miniaturized shell allows for reduced soldering time for mounting (e.g., pre-heating time)
- Insulator has adopted heat-resistant resin with concern of thermal deformation during mounting.
- Improved mountability with pre-soldering on shell terminal (4 areas)
- Pre-mounting to PCB with a standard screw (M2.6) allows for improved soldering work.

Through-hole is utilized to solder mount the center and four external conductor terminals of the connector.  
Soldering conditions below are for general process reference.

|                            |                                                                                         |
|----------------------------|-----------------------------------------------------------------------------------------|
| Soldering Iron             | External: 300W, iron 19mm dia.<br>Center: 80W, iron 8.3mm diameter nichrome heater type |
| Heating Time               | 180 to 210 seconds in total<br>(center and external combined)                           |
| Board Thickness            | t1.6                                                                                    |
| Soldering Iron Temperature | Start of heating: 340°C                                                                 |
| Pre-heating                | None                                                                                    |

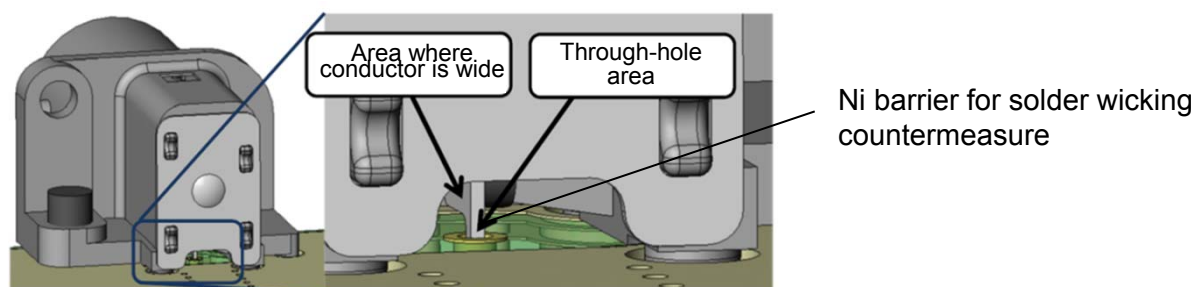
Pre-soldering Composition: Sn – 3.0Ag – 0.5Cu



Pre-soldering on shell terminal (4 areas)

## ■ Soldering Inspection

- Lower plate cut-out: for convenient post-mounting inspection



## ■ Durability: 5,000 mating cycles guaranteed

## ■ Common PCB foot print recommended for both Straight and Angle connectors.

### General Specifications

|                             |                                               |
|-----------------------------|-----------------------------------------------|
| Rated Voltage (AC)          | 250 Vr.m.s                                    |
| Rated Current (DC)          | 1 A                                           |
| Operating Temperature Range | -40°C ~ +85°C                                 |
| Storage Condition           | -20°C ~ +50°C, relative humidity: 90% RH max. |

## Materials and Finishes

**Right Angle DIP Type BNC0S111C00**

| Components | Material and Finish                                                             |
|------------|---------------------------------------------------------------------------------|
| Insulator  | Heat-resistant resin                                                            |
| Shell      | Zinc alloy / Ni plating<br>Shell terminal (4 terminals) / pre-soldering applied |
| Plate      | SUS                                                                             |
| Contact    | Copper alloy / Au plating over Ni                                               |

**Straight DIP Type BNC0T101C00**

| Components | Material and Finish                                                             |
|------------|---------------------------------------------------------------------------------|
| Insulator  | Heat-resistant resin                                                            |
| Shell      | Zinc alloy / Ni plating<br>Shell terminal (4 terminals) / pre-soldering applied |
| Contact    | Copper alloy / Au plating over Ni                                               |

## Ordering Information

## PCB Angle DIP Type: BNC0S111C00

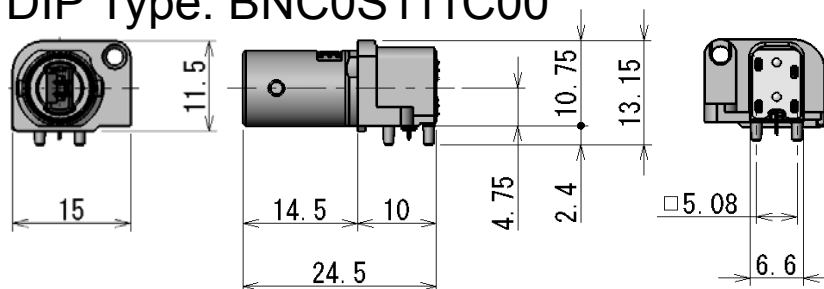
| <b>BNC0</b> | <b>S</b>                                  | <b>1</b>                            | <b>XX</b>                                                                                                                     | <b>C 00</b>                                                                                   |
|-------------|-------------------------------------------|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| Series      | Connector Type<br>S: PCB angle mount type | Number of Contacts<br>1: 1 position | Development Code<br>11:<br>•with plate<br>•Shell terminal area:<br>pre-soldering<br>•Applicable board thickness:<br>t1.6 [mm] | Connection Number<br><br>Impedance Characteristic<br>C: 75 [ $\Omega$ ]<br>D: 50 [ $\Omega$ ] |

## PCB Straight DIP Type: BNC0T101C00

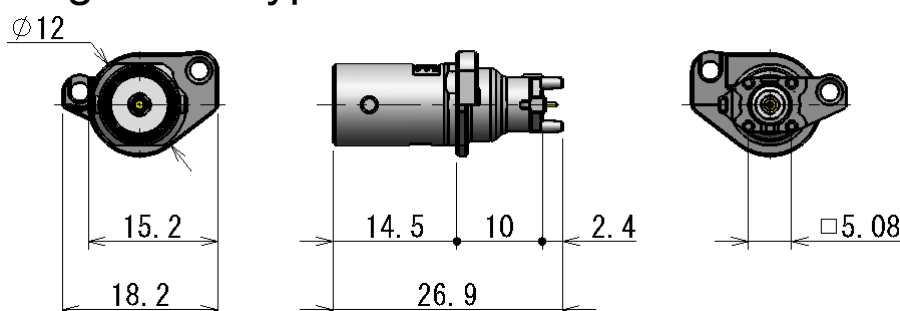
| <b>BNC0</b> | <b>T</b>                                     | <b>1</b>                            | <b>XX</b>                                                                                                      | <b>C 00</b>                                                                                   |
|-------------|----------------------------------------------|-------------------------------------|----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| Series      | Connector Type<br>T: PCB straight mount type | Number of Contacts<br>1: 1 position | Development Code<br>01:<br>•Shell terminal area:<br>pre-soldering<br>•Applicable board thickness:<br>t1.6 [mm] | Connection Number<br><br>Impedance Characteristic<br>C: 75 [ $\Omega$ ]<br>D: 50 [ $\Omega$ ] |

## Outer Dimensions

## PCB Angle DIP Type: BNC0S111C00



## PCB Straight DIP Type: BNC0T101C00



## Technical Documents

| Part Number | Drawing Number | Specifications | Handling Instructions      |
|-------------|----------------|----------------|----------------------------|
| BNC0S111C00 | SJ118563       | JACS-20209     | JABL-20209<br>JABL-20209-1 |
| BNC0T101C00 | SJ119849       | JACS-20222     | JABL-20222<br>JABL-20222-1 |

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2. Users 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.

3. The products presented in this brochure 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:

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(2) Recommended applications include:

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