

## Electrical Characteristics:

### **ABC-1451**

Impedance: 50 ohms

### **ABC-1471**

Impedance: 75 ohms

Frequency Range: 1GHz

VSWR: up to 1.2

Contact resistance < 0.1 mOhm

## Dimensions :

Cable hole without sleeve: 10.5mm

Cable hole with sleeve: 06.5/08.5mm

Biggest OD: 14.5mm

Total Length: 42.0mm

## The corresponding of the cable size:

Center conductor <01.5mm

Insulation OD >03.0mm

Woven shield OD>07.5mm

Outer plastic sheath OD <10.5mm

## Packing:

Vacuum Bag(2Pcs/1Set)

## Recommend soldering temperature:

Temperature Soldering Iron, please keep 350 °C within 20 second

Temperature Soldering Iron, please keep 400 °C within 15 second

Temperature Soldering Iron, please keep 450 °C within 10 second

Product production process comply with RoHS

## **Provide much selection of the cable type**

In order to achieve the best transmission effect (VSWR approaches 1) in RF fields, we will concentrate the specifications for the correspondence between connectors and cables.

For example, the Japan specification (4C, 5C) or US specification (RG-59, RG-6U) and other specification and impedance, You must choose the same specification and impedance for the connectors and cables.

The definition of the specifications is to maintain a regular percentage of the section conductor and insulation diameter ratio connection after assembly.

In case of the unclear specification of the cable, it will cause there no corresponding connector.

Under these circumstances, ABC-14 will be proposed a solution on it.

In a specified size range for the cables, it will allow cables to maintain a regular percentage of the section conductor and insulation diameter ratio after complete assembly and also achieve the best transmission effect.

## **It's allow to connect conductor by solder or crimp**

The method of main contact pin to suit several secondary contact pin; Not only to extend the compatibility, also increase the suitable ability of cable and connectors.

Secondary contact pin's cross cutting and shrink design. Which is able to choose the solder or crimp method to connect the contact cable conductor with contact pin of the connector.

## **The conduct material is made by high pure copper (beryllium copper) and plated without nickel base.**

## **Focus provide the client who has requirement of Hi-End by highest quality design and material.**





asco BNC Plug ABC-1451

## Description

### Mechanical structure:

Main contact pin uses the barb hook into the insulation while assemble.

Secondary contact pin fixed with main contact pin while assemble cables by crimp method.

The body and the insulation will used the barb hook to assemble tighten, and fix middle piece shell with punch riveting.

The front shell rivet on the body by spring and washer and it can spin independently

The end part and middle part of the shell locked by screwing, and fix with the cable and the sleeve stable by a screw.

### Note:

The second contact pin (ID 1.3/0.9/0.5 MM 2 pcs each) and screw (3/4MM 2 pcs each) which is for locking cable all including in the pack

### Assemble:

1. Peel cable

1.1. the cable OD < 7.5mm:

Step01

Place shell's back part<301> in the cable, and removed the



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sleeve<311/312> depends on the actual cable OD size.

Step02

Peel the shields about 6.0 mm.

Step03

Move out the cable braid and dielectric(X-2)mm, X is the cable OD which shrink gap into the cable central conductor.

include the braids.

Step04

To comb the braids by radial direction, and spread it out with core in vertical direction. And the spread out Round diameter is about 12.0mm.

Move out the aluminum foil and dielectric along the braids spread area.

Step05

Make sure the cable core is exposed 3.0mm than braids spread area.

1.2.the cable OD >7.5mm but <10.5mm:

Step01

Peel the shields about 20.0 mm

Step02

Move out the cable braid and dielectric(X-2)mm, X is the cable OD which include the braids.

Step03

Place shell's back part<301> in the cable, and removed the sleeve<311/312> depends on the actual cable OD size.

Step04

To comb the braids by radial direction, and spread it out with core in vertical direction. And the spread out Round diameter is about 12.0mm.

Move out the aluminum foil and dielectric along the braids spread area

Step05

Make sure the cable core is exposed 3.0mm than braids spread area.

2.2.To polish the chamfer of the cable core surface by chipping or milling

2.2.1.Crimp(no solder)

Clamp the second contact pin by tools, and push the second contact pin

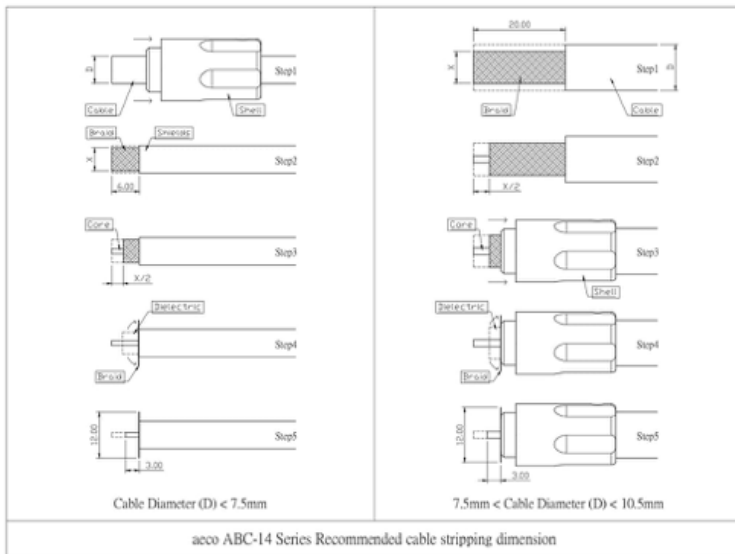
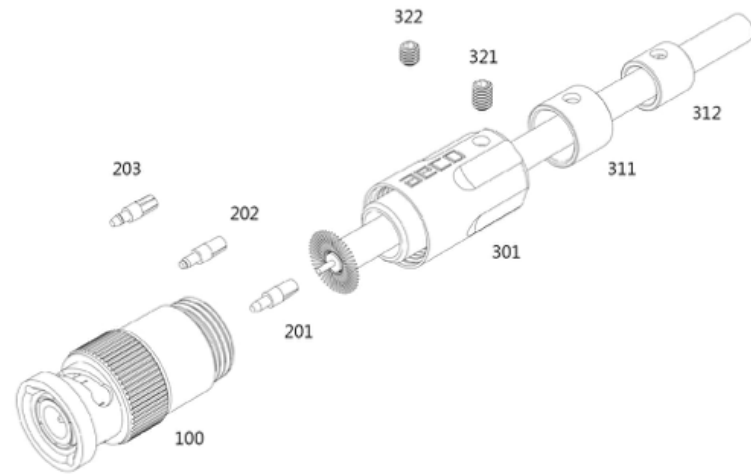
2.2.2.Solder

Clamp the second contact pin by tools, and solder the second contact pin with the cable core.

3.Place the second contact pin and cable sets in the main contact pin shrink of the shells middle part.<100>

4.Make sure the braids is completely spread out and be radial, to lock the back part of shell <301> into the middle part of the shell.

5.To fixed the cable from shell's back part with screw<321/322>



### Material:

- Contact Pin: beryllium Copper (#C17300 / copper contain 97% at least)
- Body: Brass Zinc alloy (#C3604)
- Spring: Steel
- Washer: Steel
- Shell: Brass Zinc alloy(#C3604)
- Screw: Stainless Steel(#SUS304)

### 2.Contac pin

2.1.To choose suitable ID size based on the second contact pin <201/202/203> of the pack included.

Second contact pin<201> ID will be 1.3mm after shrink.

Second contact pin<202> ID will be 0.9mm after shrink.

Second contact pin<203> ID will be 0.5mm after shrink.

### Finish:

- Contact Pin: 10u" gold plating (no nickel base)
- Body: 10u" gold plating (no nickel base)
- Spring: Nickel plating
- Washer: Nickel plating
- Shell: Satin nickel plating + topcoat
- Screw: Nature