

BCP-H3B

# 75 ohm BNC Solder Plug

CANARE solder type 75 ohm BNC plug. Straight Type, BCP-H Series.

## — Key Features and Benefits

- The tubular (ferrule) section is silver plated to make soldering easier.
- Cable stripper TS100E can be used. (Excluding BCP-H31F, BCP-H51F)
- Return Loss: 26.4 dB @ 1 GHz

**Note1:** Be sure to use Canare Crimp Tool

Note2: Instruction manual

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For inquiries about this products











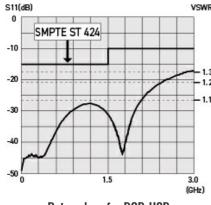


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# **BCP-H Series**

Madal	Suitable Cable		L	Standard
Model	Canare	Others	boots	package
ВСР-НЗВ	L-3C2V, L-3C2VS, 3C-2V, V*-3C L-3CFB, LS-3CFB, V*-3CFB	-	-	
BCP-H31F	L-3CFW, V*-3CFW	-	-	
BCP-H45HW	L-4.5CHWS	1694F	-	20 pcs
BCP-H5B	L-5C2V, L-5C2VS, 5C-2V, V*-5C L-5CFB, LS-5CFB, 5C-FB, S-5C-FB, V*-5CFB	-	-	
BCP-H51F	L-5CFW, V*-5CFW, L-5CFB, LS-5CFB 5C-FB, S-5C-FB, V*-5CFB	-	-	
BCP-H5/1	L-3C2V, L-3C2VS, 3C-2V, V*-3C L-3CFB, LS-3CFB, V*-3CFB L-5C2V, L-5C2VS, 5C-2V, V*-5C L-5CFB, LS-5CFB, 5C-FB, S-5C-FB, V*-5CFB	-	-	

## < Return loss >



**Return loss for BCP-H3B** 

# **Technical Note**

## **Voltage Standing - wave Ratio (VSWR) and Return Loss**

Terminating the receiving end of a limited length coaxial cable using a resistance value not equal to its characteristic impedance creates a reflected wave that returns back down the cable to the sending end. The result is interference developing between the travelling wave and the return wave which results in a standing wave that causes voltage levels to fluctuate. The degree to which terminating resistance matches the characteristic impedance is indicated using the VSWR or voltage standing-wave ratio standard shown in Fig. 1. Going hand in hand with the VSWR ratio is the return loss factor which measures the size of the reflected wave current in relation to the travelling wave current. (See Fig. 2)

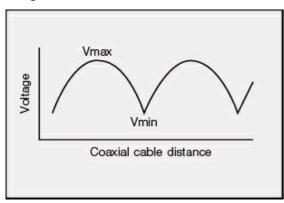


Fig. 1 Voltage Distribution Over Coaxial Cable

at	actor willen measures the size or the reflected t		
	VSWR	Return Loss (dB)	
	2	9.54	
	1.5	13.98	
	1.2	20.83	
	1.1	26.44	
	1.05	32.26	
	1.02	40.09	
	1.01	46.06	

Fig. 2 VSWR to Return Loss Conversion Table

**SAB305** Ver. 1.1

(BCP-H51F)

CANARE ELECTRIC CO., LTD

**1. Scope** This product specification covers the performance of CANARE solder type 75 BNC plug.

2. General specifications

(1) Product name Solder type 75 **BNC** plug

BCP-H51F (2) Model name JIS\*1 C 5412 (3) Applicable standard (4) Nominal impedance 75 unbalanced

(5) Construction As shown in the drawing (BL305).

(6) Weight Approx 24.5g

(7) Designation Stamp model name (BCP-H51F) and brand name (CANARE) on coupling sleeve.

100pcs/package (262 x 163 x 55mm), 20pcs/package (150 x 50 x 44mm) 5C-FB (JCS\*2 381), S-5C-FB (JIS C 3502), (8) Packaging

(9) Applicable cable

L-5CFW, L-5CFB, L-5CFBA, LS-5CFB, L-5CF (CANARE)

\*1Japanese Industrial Standard

\*2The Japanese Electric Wire & Cable Maker's Association Standard

3. Ratings

(1) Operating temperature -20 ~ +90 (2) Operating humidity ~ 90%

4. Characteristics

4.1 Electrical characteristics As shown in Table 1

lable 1			
Items	Specified values	Test methods	
Insulation resistance	1000M or more	Measurement shall be made between the contacts, after an electrification time of 1min with a d.c. voltage of 500V.	
Voltage proof	Without any damage such as electric breakdown etc.	the contacts. Trip current :0.5mA.	
Contact resistance	Between center contacts: 6m or less Between external contacts: 3m or less	Measurement shall be made between the contacts, with engaging a plug and a receptacle. (1kHz:1mA a.c.)	
Voltage standing wave ratio (V.S.W.R)	1.1 or less ( DC ~ 1GHz) 1.2 or less (DC ~ 2GHz)	An applied cable shall be attached to the plug, then it shall be terminated with 75.  The measurement frequency up to 2GHz.	

#### 4.2 Mechanical characteristics As shown in Table 2

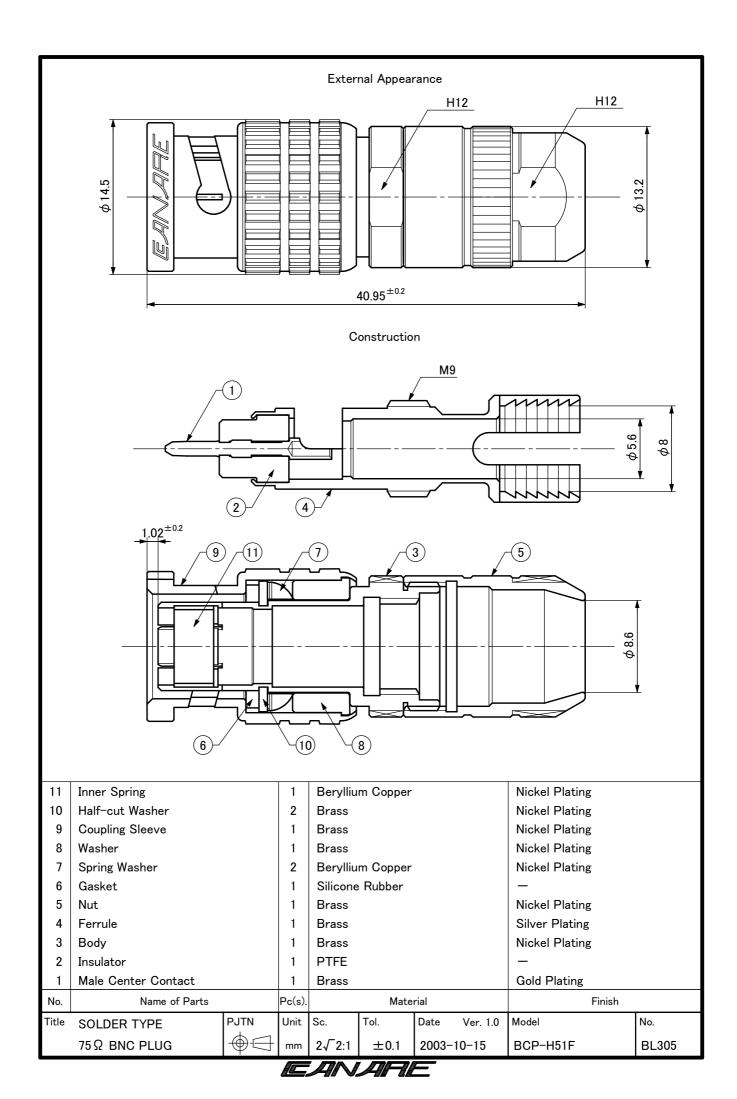
Table 2			
Items	Specified values	Test methods	
Intermatability	To be engaged without any	The plug and an applicable receptacle shall be	
	abnormality.	engaged.	
Fixing force of	No displacement more than 0.5 mm.	Tensile strength of 19.6N shall be applied to the	
contact with lock	·	axial direction.	
mechanism			
Strength of coupling	Coupling sleeve shall not be	The plug and a receptacle shall be engaged,	
mechanism	disconnected or no deformation shall		
	be made.	strength of 2.5N· m shall be applied.	
Cable connecting	245N or more for L-5CFW	An applied cable shall be attached to the plug,	
force	196N or more for 5C-FB	after which tensile strength shall be applied.	
Mechanical operation	Contact resistance: 10m or less	The endurance test consists of repeated	
(repeated)		engagement and separation of connector pairs.	
		The number of operations shall be 5000 cycles.	

## 4.3 Environmental characteristics As shown in Table 3

Table 3

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Items	Specified values	Test methods	
	Contact resistance: 50m or less	The connector shall be subjected continuously to a fine mist of salt solution at a temperature of 35±2 for 48h (Salt solution concentration: 5±1% by weight). Then it shall be subjected to standard atmospheric conditions. After removing	
		the salt deposits by water, the appearance of	
		the connector shall be checked.	

5. Measurement conditions Unless otherwise specified, the standard range of atmospheric conditions for making measurements and tests are as follows: Ambient temperature (15 to 35 ), Relative humidity (25% to 75%), Air pressure (86kPa to 106kPa). If there is any doubt about the results, measurements shall be made within the following limits: Ambient temperature (20±1 ), Relative humidity (63% to 67%), Air pressure (86kPa to 106kPa).



SABE432 Ver. 1.0

(BCP-H45HW)

CANARE ELECTRIC CO., LTD

**1. Scope** This product specification covers the performance of CANARE solder type 75  $\Omega$  BNC plug.

2. General specifications

(1) Product name Solder type 75  $\Omega$  BNC plug

BCP-H45HW JIS\*1 C 5412 (2) Model name (3) Applicable standard 75 Ω unbalanced (4) Nominal impedance

(5) Construction As shown in the drawing (BL432).

(6) Weight Approx 25.0g

Stamp model name (BCP-H45HW) and brand name (CANARE) on coupling sleev (7) Designation

(8) Packaging 100pcs/package (262 x 163 x 55mm), 20pcs/package (150 x 50 x 44mm)

(9) Applicable cable L-4.5CHWS (CANARE),1694F(BELDEN)

\*1 Japanese Industrial Standard

\*2The Japanese Electric Wire & Cable Maker's Association Standard

3. Ratings

(1) Operating temperature  $-20 \,^{\circ}\text{C} \sim +90 \,^{\circ}\text{C}$ 

(2) Operating humidity ~ 90%

4. Characteristics

4.1 Electrical characteristics As shown in Table 1

Table 1

Table 1				
Items	Specified values	Test methods		
Insulation resistance	1000MΩ or more	Measurement shall be made between the		
		contacts, after an electrification time of 1min		
		with a d.c. voltage of 500V.		
Voltage proof	Without any damage such as electric	1500V a.c. shall be applied for 1 min between		
	breakdown etc.	the contacts. Trip current :0.5mA.		
Contact resistance	Between center contacts:	Measurement shall be made between the		
	$6$ m $\Omega$ or less	contacts, with engaging a plug and a receptacle.		
	Between external contacts:	(1kHz:1mA a.c.)		
	$3$ m $\Omega$ or less	,		
Voltage standing	1.1 or less ( DC ~ 1GHz)	An applied cable shall be attached to the plug,		
wave ratio	1.2 or less (DC ~ 2GHz)	then it shall be terminated with 75 $\Omega$ .		
(V.S.W.R)	,	The measurement frequency up to 2GHz.		

#### 4.2 Mechanical characteristics As shown in Table 2

Table 2

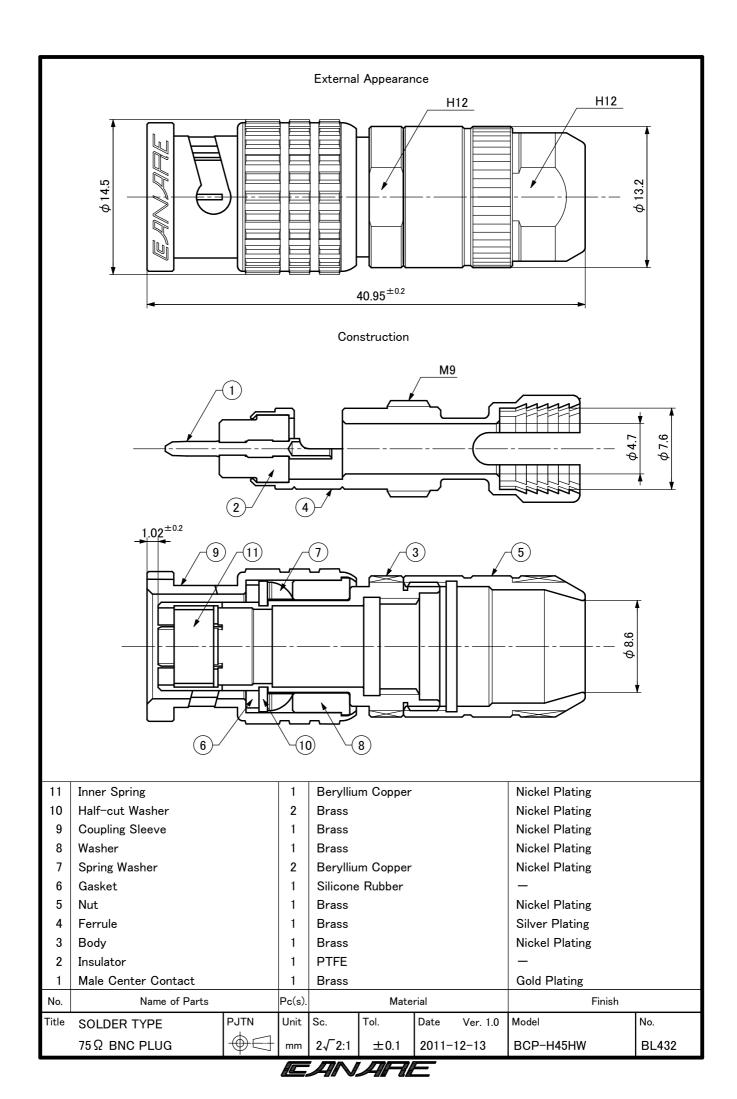
Table 2			
Items	Specified values	Test methods	
Intermatability	To be engaged without any	The plug and an applicable receptacle shall be	
	abnormality.	engaged.	
Fixing force of	No displacement more than 0.5 mm.	Tensile strength of 19.6N shall be applied to the	
contact with lock	·	axial direction.	
mechanism			
Strength of coupling	Coupling sleeve shall not be	The plug and a receptacle shall be engaged,	
mechanism	disconnected or no deformation shall	after which tensile strength of 250N and rotation	
	be made.	strength of 2.5N·m shall be applied.	
Cable connecting	245N or more for L-4.5CHWS	An applied cable shall be attached to the plug,	
force		after which tensile strength shall be applied.	
Mechanical operation	Contact resistance: 10m Ω or less	The endurance test consists of repeated	
(repeated)		engagement and separation of connector pairs.	
		The number of operations shall be 5000 cycles.	

## 4.3 Environmental characteristics As shown in Table 3

Table 3

100.00			
Items	Specified values	Test methods	
Corrosion resistance (Salt mist)	without noticeable rust.	The connector shall be subjected continuously to a fine mist of salt solution at a temperature of 35±2 °C for 48h (Salt solution concentration: 5±1% by weight). Then it shall be subjected to standard atmospheric conditions. After removing the salt deposits by water, the appearance of the connector shall be checked.	

5. Measurement conditions Unless otherwise specified, the standard range of atmospheric conditions for making measurements and tests are as follows: Ambient temperature (15  $^{\circ}$ C to 35  $^{\circ}$ C), Relative humidity (25% to 75%), Air pressure (86kPa to 106kPa). If there is any doubt about the results, measurements shall be made within the following limits: Ambient temperature (20±1 °C), Relative humidity (63% to 67%), Air pressure (86kPa to 106kPa).



SAB306 Ver. 1.0

(BCP-H31F)

CANARE ELECTRIC CO., LTD

1. Scope This product specification covers the performance of CANARE solder type 75 BNC plug.

2. General specifications

(1) Product name Solder type 75 BNC plug

(2) Model name BCP-H31F
(3) Applicable standard JIS\* C 5412
(4) Nominal impedance 75 unbalanced

(5) Construction As shown in the drawing (BL306).

(6) Weight Approx 22.8g

(7) Designation Stamp model name (BCP-H31F) and brand name (CANARE) on coupling sleeve. (8) Packaging 100pcs/package (262 x 163 x 55mm), 20pcs/package (150 x 50 x 44mm)

(9) Applicable cable L-3CFW (CANARE)

\*Japanese Industrial Standard

3. Ratings

(1) Operating temperature -20 ~ +90 (2) Operating humidity ~ 90%

4. Characteristics

4.1 Electrical characteristics As shown in Table 1

Table 1

Tuble 1				
Items	Specified values	Test methods		
Insulation resistance	1000M or more	Measurement shall be made between the		
		contacts, after an electrification time of 1min		
		with a d.c. voltage of 500V.		
Voltage proof	Without any damage such as electric	1500V a.c. shall be applied for 1 min between		
	breakdown etc.	the contacts. Trip current :0.5mA.		
Contact resistance	Between center contacts:	Measurement shall be made between the		
	6m or less	contacts, with engaging a plug and a receptacle.		
	Between external contacts:	(1kHz:1mA a.c.)		
	3m or less	, , , , , , , , , , , , , , , , , , ,		
Voltage standing	1.1 or less ( DC ~ 1GHz)	An applied cable shall be attached to the plug,		
wave ratio	1.2 or less (DC ~ 2GHz)	then it shall be terminated with 75		
(V.S.W.R)	,	The measurement frequency up to 2GHz.		

#### 4.2 Mechanical characteristics As shown in Table 2

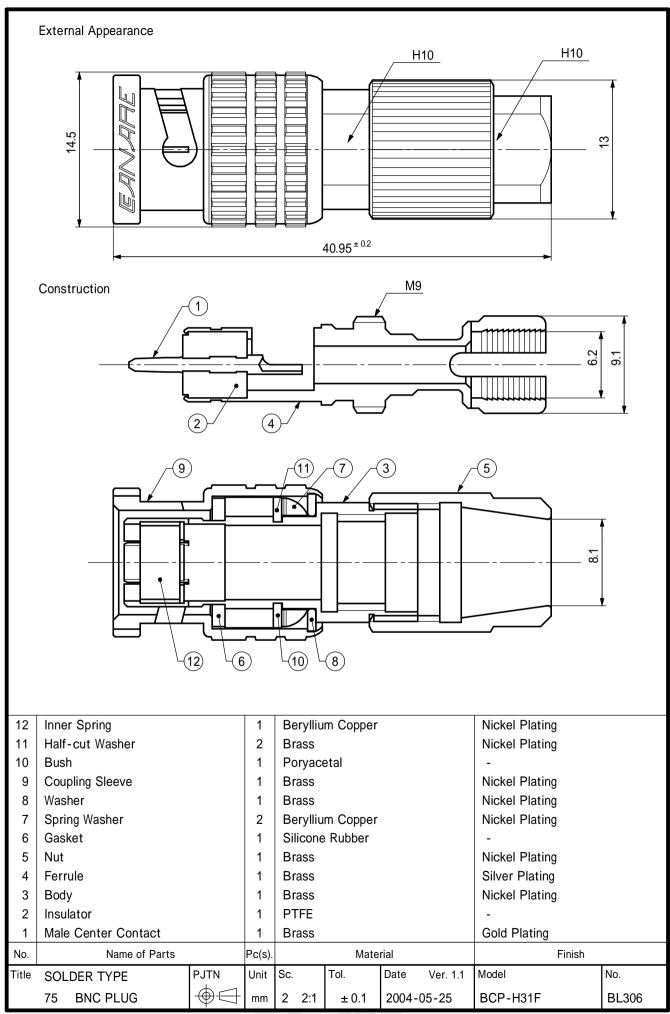
Table 2

Table 2			
Specified values	Test methods		
To be engaged without any	The plug and an applicable receptacle shall be		
abnormality.	engaged.		
No displacement more than 0.5 mm.	Tensile strength of 19.6N shall be applied to the		
·	axial direction.		
Coupling sleeve shall not be	The plug and a receptacle shall be engaged,		
disconnected or no deformation shall	after which tensile strength of 250N and rotation		
be made.	strength of 2.5N· m shall be applied.		
245N or more for L-3CFW	An applied cable shall be attached to the plug,		
	after which tensile strength shall be applied.		
Contact resistance: 10m or less	The endurance test consists of repeated		
	engagement and separation of connector pairs.		
	The number of operations shall be 5000 cycles.		
	Specified values To be engaged without any abnormality. No displacement more than 0.5 mm.  Coupling sleeve shall not be disconnected or no deformation shall be made.  245N or more for L-3CFW		

## 4.3 Environmental characteristics As shown in Table 3

Table 3			
Items	Specified values	Test methods	
Corrosion resistance	Contact resistance: 50m or less	The connector shall be subjected continuously	
(Salt mist)	Appearance: By visual inspection,	to a fine mist of salt solution at a temperature of	
	without noticeable rust.	35±2 for 48h (Salt solution concentration:	
		5±1% by weight). Then it shall be subjected to	
		standard atmospheric conditions. After removing	
		the salt deposits by water, the appearance of	
		the connector shall be checked.	

**5. Measurement conditions** Unless otherwise specified, the standard range of atmospheric conditions for making measurements and tests are as follows: Ambient temperature (15 to 35 ), Relative humidity (25% to 75%), Air pressure (86kPa to 106kPa). If there is any doubt about the results, measurements shall be made within the following limits: Ambient temperature (20±1 ), Relative humidity (63% to 67%), Air pressure (86kPa to 106kPa).



SAB015E Ver. 1.1

(BCP-H5B)

CANARE ELECTRIC CO., LTD

**1. Scope** This product specification covers the performance of CANARE solder type 75  $\Omega$  BNC plug.

2. General specifications

(1) Product name Solder type 75  $\Omega$  BNC plug

(2) Model name BCP-H5B

(3) Applicable standard Japanese Industrial Standards (JIS) C 5412

(4) Nominal impedance 75 Ω unbalanced

(5) Construction As shown in the drawing (BL015A).

(6) Weight Approx 21.6g

(7) Designation Stamp model name (BCP-H5B) and brand name (CANARE) on coupling sleeve.

(8) Packaging 100pcs/package (262 x 163 x 55mm), 20pcs/package (150 x 50 x 44mm)

(9) Applicable cable

5C-2V(JIS C 3501), 5C-FB (JCS\* 381), S-5C-FB (JIS C 3502),
L-5C2VS, L-5C2V, L-5CF, L-5CFB, LS-5CFB, L-5CFBA (CANARE)

\*The Japanese Electric Wire & Cable Maker's Association Standard

3. Ratings

(1) Operating temperature  $-20 \,^{\circ}\text{C} \sim +90 \,^{\circ}\text{C}$ 

(2) Operating humidity  $\sim 90\%$ 

4. Characteristics

4.1 Electrical characteristics As shown in Table 1

Table 1

Table I				
Items	Specified values	Test methods		
Insulation resistance	1000MΩ or more	Measurement shall be made between the		
		contacts, after an electrification time of 1min		
		with a d.c. voltage of 500V.		
Voltage proof	Without any damage such as electric	1500V a.c. shall be applied for 1 min between		
	breakdown etc.	the contacts. Trip current :0.5mA.		
Contact resistance	Between center contacts:	Measurement shall be made between the		
	$6$ m $\Omega$ or less	contacts, with engaging a plug and a receptacle.		
	Between external contacts:	(1kHz:1mA a.c.)		
	$3$ m $\Omega$ or less	,		
Voltage standing	1.1 or less	An applied cable shall be attached to the plug,		
wave ratio		then it shall be terminated with 75 $\Omega$ .		
(V.S.W.R)		The measurement frequency up to 1GHz.		

#### 4.2 Mechanical characteristics As shown in Table 2

Table 2

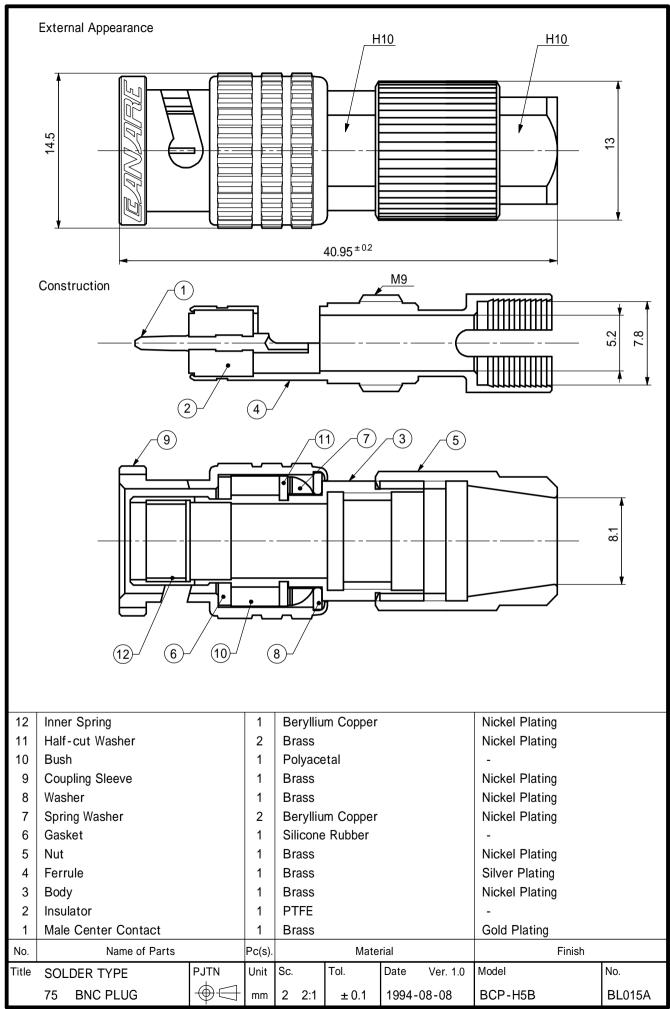
Table 2		
Items	Specified values	Test methods
Intermatability	To be engaged without any	The plug and an applicable receptacle shall be
-	abnormality.	engaged.
	Torque for the bayonet:	
	0.058 <b>~</b> 0.113N⋅m	
Fixing force of	No displacement more than 0.5 mm.	Tensile strength of 19.6N shall be applied to the
contact with lock	·	axial direction.
mechanism		
Strength of coupling	Coupling sleeve shall not be	The plug and a receptacle shall be engaged,
mechanism	disconnected or no deformation shall	after which tensile strength of 250N and rotation
	be made.	strength of 2.5N·m shall be applied.
Cable connecting	245N or more for 5C-2V	An applied cable shall be attached to the plug,
force	196N or more for 5C-FB	after which tensile strength shall be applied.
Mechanical operation	Contact resistance: 10m Ω or less	The endurance test consists of repeated
(repeated)		engagement and separation of connector pairs.
		The number of operations shall be 5000 cycles.

#### 4.3 Environmental characteristics As shown in Table 3

Table 3

Table 3		
Items	Specified values	Test methods
Corrosion resistance (Salt mist)	Appearance: By visual inspection, without noticeable rust.	The connector shall be subjected continuously to a fine mist of salt solution at a temperature of
(Oait mist)	Contact resistance: 50m Ω or less	35±2 °C for 48h (Salt solution concentration:
		5±1% by weight). Then it shall be subjected to standard atmospheric conditions. After removing
		the salt deposits by water, the appearance of
		the connector shall be checked.

**5. Measurement conditions** Unless otherwise specified, the standard range of atmospheric conditions for making measurements and tests are as follows: Ambient temperature (15  $^{\circ}$ C to 35  $^{\circ}$ C), Relative humidity (25% to 75%), Air pressure (86kPa to 106kPa). If there is any doubt about the results, measurements shall be made within the following limits: Ambient temperature (20±1  $^{\circ}$ C), Relative humidity (63% to 67%), Air pressure (86kPa to 106kPa).



EANARE

**SAB0070A** Ver. 1.1

(BCP-H5/1)

CANARE ELECTRIC CO., LTD

1. Scope This product specification covers the performance of CANARE solder type 75 BNC plug.

2. General specifications

(1) Product name Solder type 75 **BNC** plug

(2) Model name BCP-H5/1 JIS\*1 C 5412 Applicable standard Nominal impedance 75 unbalanced

(5) Construction As shown in the drawing (BL070).

Weight Approx 23.9g

Designation Stamp model name (BCP-H5/1) and brand name (CANARE) on coupling sleeve. (8) Packaging

100pcs/package (262 x 163 x 55mm), 20pcs/package (150 x 50 x 44mm) 3C-2V, 5C-2V(JIS C 3501), 5C-FB (JCS\*2 381), S-5C-FB (JIS C 3502), L-3C2VS, L-3C2V, L-3CFB, LS-3CFB, L-5C2VS, L-5C2V, L-5CF, L-5CFB, LS-5CFB, L-5CFBA (CANARE) (9) Applicable cable

Japanese Industrial Standard

\*2The Japanese Electric Wire & Cable Maker's Association Standard

3. Ratings

(1) Operating temperature (2) Operating humidity -20 ~ +90

~ 90%

4. Characteristics

4.1 Electrical characteristics As shown in Table 1

lable 1		
Items	Specified values	Test methods
Insulation resistance	1000M or more	Measurement shall be made between the contacts, after an electrification time of 1min
		with a d.c. voltage of 500V.
Voltage proof		1500V a.c. shall be applied for 1 min between
	breakdown etc.	the contacts. Trip current :0.5mA.
Contact resistance	Between center contacts:	Measurement shall be made between the
	6m or less	contacts, with engaging a plug and a receptacle.
	Between external contacts:	(1kHz:1mA a.c.)
	3m or less	
Voltage standing	1.1 or less	An applied cable shall be attached to the plug,
wave ratio		then it shall be terminated with 75
(V.S.W.R)		The measurement frequency up to 1GHz.

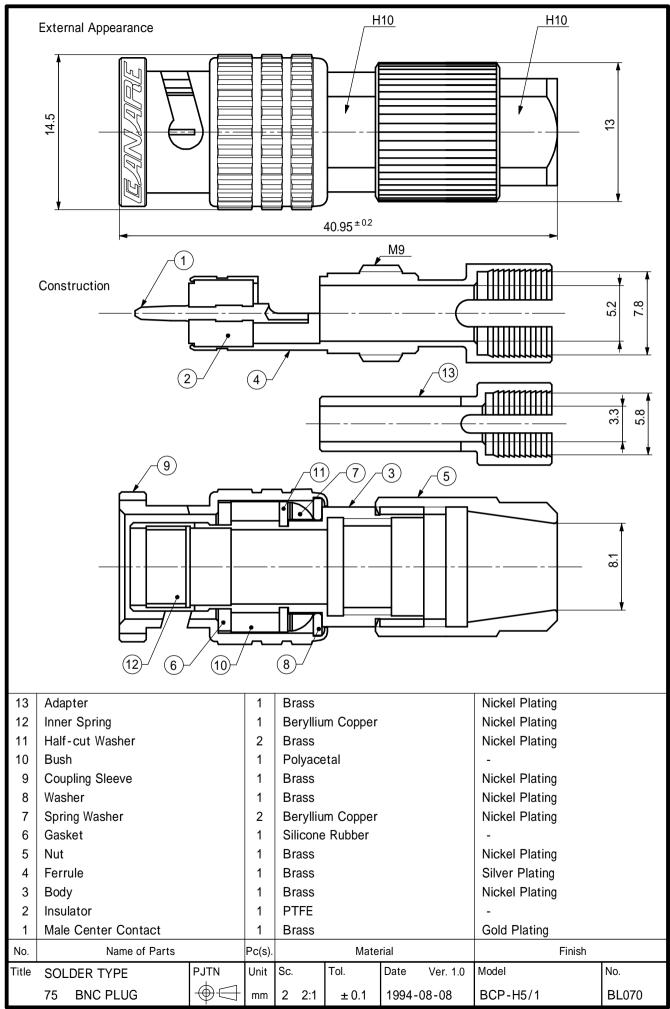
#### 4.2 Mechanical characteristics As shown in Table 2

Table 2			
Items	Specified values	Test methods	
Intermatability	To be engaged without any	The plug and an applicable receptacle shall be	
•	abnormality. T	engaged.	
	No displacement more than 0.5 mm.		
Fixing force of		Tensile strength of 19.6N shall be applied to the	
contact with lock	Coupling sleeve shall not be	axial direction.	
mechanism	disconnected or no deformation shall		
Strength of coupling	be made.	The plug and a receptacle shall be engaged,	
mechanism	196N or more for 3C-2V, 5C-FB	after which tensile strength of 250N and rotation	
	245N or more for 5C-2V	strength of 2.5N· m shall be applied.	
Cable connecting	Contact resistance: 10m or less	An applied cable shall be attached to the plug,	
force		after which tensile strength shall be applied.	
Mechanical operation		The endurance test consists of repeated	
(repeated)		engagement and separation of connector pairs.	
		The number of operations shall be 5000 cycles.	

## 4.3 Environmental characteristics As shown in Table 3

TUDICO		
Items	Specified values	Test methods
Corrosion resistance	Appearance: By visual inspection,	The connector shall be subjected continuously
(Salt mist)	without noticeable rust.	to a fine mist of salt solution at a temperature of
,	Contact resistance: 50m or less	35±2 for 48h (Salt solution concentration:
		5±1% by weight). Then it shall be subjected to
		standard atmospheric conditions. After removing
		the salt deposits by water, the appearance of
		the connector shall be checked.

<sup>5.</sup> Measurement conditions Unless otherwise specified, the standard range of atmospheric conditions for making measurements and tests are as follows: Ambient temperature (15 to 35 ), Relative humidity (25% to 75%), Air pressure (86kPa to 106kPa). If there is any doubt about the results, measurements shall be made within the following limits: Ambient temperature (20±1 ), Relative humidity (63% to 67%), Air pressure (86kPa to 106kPa).



EANARE

SAB014D Ver. 1.1

(BCP-H3B)

CANARE ELECTRIC CO., LTD

**1. Scope** This product specification covers the performance of CANARE solder type 75  $\Omega$  BNC plug.

2. General specifications

(1) Product name Solder type 75  $\Omega$  BNC plug

(2) Model name BCP-H3B
 (3) Applicable standard JIS\* C 5412
 (4) Nominal impedance 75 Ω unbalanced

**(5) Construction** As shown in the drawing (BL014A).

(6) Weight Approx 24.1g

(7) Designation
(8) Packaging
(9) Applicable cable

Stamp model name (BCP-H3B) and brand name (CANARE) on coupling sleeve. 100pcs/package (262 x 163 x 55mm), 20pcs/package (150 x 50 x 44mm) 3C-2V(JIS C 3501), L-3C2VS, L-3CF, L-3CFB, LS-3CFB (CANARE) \*Japanese Industrial Standard\*

3. Ratings

(1) Operating temperature  $-20 \,^{\circ}\text{C} \sim +90 \,^{\circ}\text{C}$ 

(2) Operating humidity  $\sim 90\%$ 

4. Characteristics

4.1 Electrical characteristics As shown in Table 1

#### Table 1

Table 1		
Items	Specified values	Test methods
Insulation resistance	1000M $\Omega$ or more	Measurement shall be made between the
		contacts, after an electrification time of 1min
		with a d.c. voltage of 500V.
Voltage proof	Without any damage such as electric	1500V a.c. shall be applied for 1 min between
	breakdown etc.	the contacts. Trip current :0.5mA.
Contact resistance	Between center contacts:	Measurement shall be made between the
	$6$ m $\Omega$ or less	contacts, with engaging a plug and a receptacle.
	Between external contacts:	(1kHz:1mA a.c.)
	$3$ m $\Omega$ or less	,
Voltage standing	1.1 or less	An applied cable shall be attached to the plug,
wave ratio		then it shall be terminated with 75 $\Omega$ .
(V.S.W.R)		The measurement frequency up to 1GHz.

#### 4.2 Mechanical characteristics As shown in Table 2

#### Table 2

Table 2		
Items	Specified values	Test methods
Intermatability	To be engaged without any	The plug and an applicable receptacle shall be
-	abnormality.	engaged.
	Torque for the bayonet:	
	0.058 <b>~</b> 0.113N⋅m	
Fixing force of	No displacement more than 0.5 mm.	Tensile strength of 19.6N shall be applied to the
contact with lock	·	axial direction.
mechanism		
Strength of coupling	Coupling sleeve shall not be	The plug and a receptacle shall be engaged,
mechanism	disconnected or no deformation shall	after which tensile strength of 250N and rotation
	be made.	strength of 2.5N·m shall be applied.
Cable connecting	196N or more for 3C-2V	An applied cable shall be attached to the plug,
force		after which tensile strength shall be applied.
Mechanical operation	Contact resistance: 10m Ω or less	The endurance test consists of repeated
(repeated)		engagement and separation of connector pairs.
		The number of operations shall be 5000 cycles.

## 4.3 Environmental characteristics As shown in Table 3

Table 3		
Items	Specified values	Test methods
Corrosion resistance	Appearance: By visual inspection,	The connector shall be subjected continuously
(Salt mist)	without noticeable rust.	to a fine mist of salt solution at a temperature of
,	Contact resistance: 50m Ω or less	35±2 °C for 48h (Salt solution concentration:
		5±1% by weight). Then it shall be subjected to
		standard atmospheric conditions. After removing
		the salt deposits by water, the appearance of
		the connector shall be checked.

**5. Measurement conditions** Unless otherwise specified, the standard range of atmospheric conditions for making measurements and tests are as follows: Ambient temperature (15  $^{\circ}$ C to 35  $^{\circ}$ C), Relative humidity (25% to 75%), Air pressure (86kPa to 106kPa). If there is any doubt about the results, measurements shall be made within the following limits: Ambient temperature (20±1  $^{\circ}$ C), Relative humidity (63% to 67%), Air pressure (86kPa to 106kPa).

