

75 ohm BNC Receptacles

True 75 ohm impedance.

— Key Features and Benefits

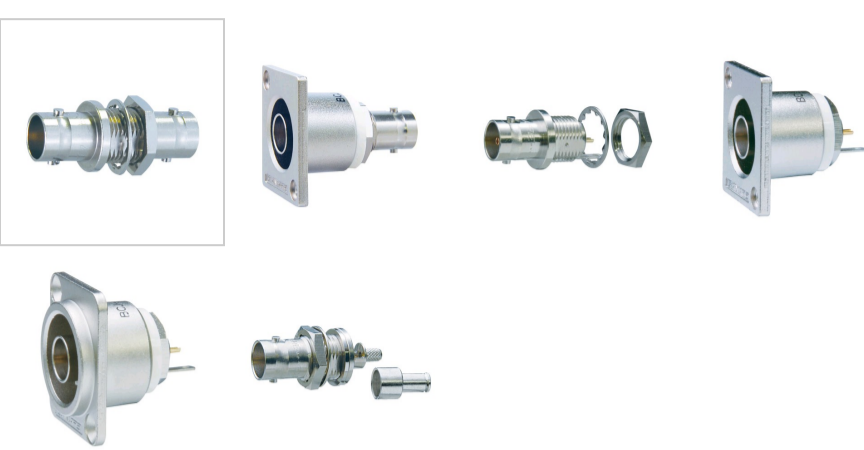
- Gold plated beryllium copper center contact.
- Flush-mount receptacle prevents damage on the jack.



For inquiries about this products



BCJ-JRK



Tech Data

Downloads

// Jack to Jack 12G SDI

Model	Description	Flange	Standard package
BCJ-JRK	Standoff	-	20 pcs
BCJ-JRUK	Flush-mount	ITT XLR-F77	
BCJ-JRUDK		Neutrik D	
BCJ-JRUBK		Neutrik D (Black)	

— Key Features and Benefits

- Redesigned for 12G-SDI to minimize return loss.
- Return Loss: 26.4 dB @ 12 GHz, 15 dB @ 12 GHz

// Jack to Jack

Model	Description	Flange	Standard package
BCJ-JRUD	Flush-mount	Neutrik D	20 pcs

— Key Features and Benefits

- Return Loss: 26.4 dB @ 2 GHz

// Jack to Solder

Model	Description	Flange	Standard package
BCJ-R	Rear-mount	-	20 pcs
BCJ-R/1	Rear-mount, w/Ground Lug	-	
BCJ-RU	Flush-mount	ITT XLR-F77	
BCJ-RUD		Neutrik D	
BCJ-RUDB		Neutrik D (Black)	

— Key Features and Benefits

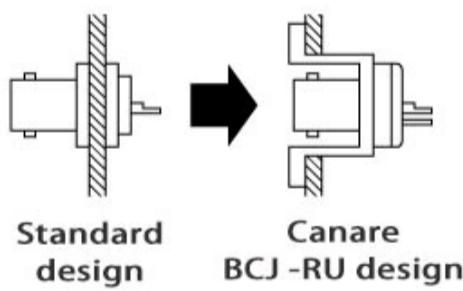
- Panel Jack covers the rear wiring part with metal crimp sleeve.
- Return Loss: 26.4 dB @ 2 GHz

// Panel Jack (Jack to Solder and Crimp)

Model	Description	Flange	Suitable Cable	Die Set	Standard package
BCJ-FC1	Front-mount, 1/2"	-	1.5C-2V	TCD-1DB	20 pcs
BCJ-FC1-7/16	Front-mount, 7/16	-			
BCJ-RUC1	Flush-mount	ITT XLR-F77			

— Key Features and Benefits

- Panel Jack covers the rear wiring part with metal crimp sleeve.
- Space-saving design
- Ideal for internal rack wiring.
- Return Loss: 26.4 dB @ 1 GHz



Note! Be sure to use Canare Crimp Tool

< Panel Hole Dimensions >

BCJ-RUC1, BCJ-RU, BCJ-JRUK		BCJ-RUD, BCJ-RUDB, BCJ-JRUD(K), BCJ-JRUBK	
BCJ-R	*BCJ-R/1, *BCJ-JRK	BCJ-FC1	*BCJ-FC1-7/16

* marked models accept insulation bushing IU-7/16, and the panel hole for IU-7/16 should be adopted in this case.

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)

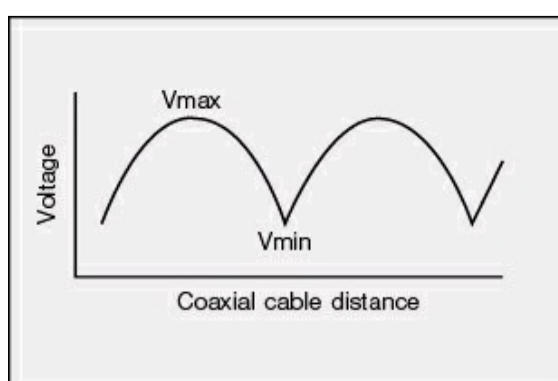


Fig. 1 Voltage Distribution Over Coaxial Cable

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

PRODUCT SPECIFICATIONS

(BCJ-JRK)

SAB498

Ver. 1.0

CANARE ELECTRIC CO., LTD

1. **Scope** This product specification covers the performance of CANARE 75 Ω BNC receptacle.

2. General Specifications

- (1) **Product name** 75 Ω BNC receptacle
 (2) **Model name** BCJ-JRK
 (3) **Applicable standard** IEC*¹ 61169-8, JIS*² C 5412
 (4) **Nominal impedance** 75 Ω unbalanced
 (5) **Construction** As shown in the drawing (BL498).
 (6) **Weight** Approx 11g (including mounting nut and locked washer)
 (7) **Designation** Stamp model name (BCJ-JRK) and brand name (CANARE) on the body.
 (8) **Packaging** 20pcs/package (150 x 50 x 44mm), 100pcs/package (220 x 158 x 50mm)

*¹International Electrotechnical Commission*²Japanese Industrial Standard

3. Rating

- (1) **Operating temperature** -40 $^{\circ}\text{C}$ ~ +85 $^{\circ}\text{C}$
 (2) **Operating humidity** ~ 90%

4. Characteristics

4.1 Electrical characteristics As shown in Table 1

Table 1

Items	Specified values	Test methods
Insulation resistance	1000M Ω 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.	1500V a.c. shall be applied for 1 min between the contacts. Trip current :0.5mA.
Contact resistance	Between center contacts: 6m Ω or less Between external contacts: 3m Ω or less	Measurement shall be made between the contacts, with engaging a plug and a receptacle. (1kHz:1mA a.c.)
Return loss	26dB or more(0 ~ 3GHz) 20dB or more(0 ~ 6GHz) 15dB or more(0 ~ 12GHz)	Terminated with 75 Ω . The measurement frequency up to 12GHz.

4.2 Mechanical characteristics As shown in Table 2

Table 2

Items	Specified values	Test methods
Intermatability	To be engaged without any abnormality	The receptacle and applicable plug shall be engaged.
Female contact retention force	1.5 ~ 3.9N	Following JIS C 5412 pin gauge (Fig.) shall be inserted the female contact and measurement shall be made.
Fixing force of contact with lock mechanism	No displacement more than 0.5 mm.	Tensile strength of 19.6N shall be applied to the axial direction.
Strength of coupling mechanism	Body shall not be disconnected or no deformation shall be made.	The plug and a receptacle shall be engaged, after which tensile strength of 250N and rotation strength of 2.5N·m shall be applied.
Attachment strength	There shall be no break or damage on each part of connector.	The receptacle shall be attached on the chassis and tensile strength of 200N shall be applied to the axial direction.
Mechanical operation (repeated)	Contact resistance: 10m Ω or less	The endurance test consists of 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

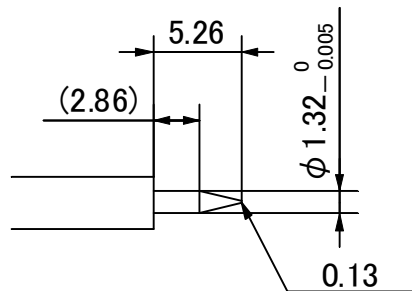
Items	Specified values	Test methods
Corrosion resistance (Salt mist)	Contact resistance: 50m Ω or less Appearance: By visual inspection, without noticeable rust.	The connector shall be subjected continuously to a fine mist of salt solution at a temperature of 35 ± 2 °C for 48h (Salt solution concentration: $5\pm 1\%$ 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

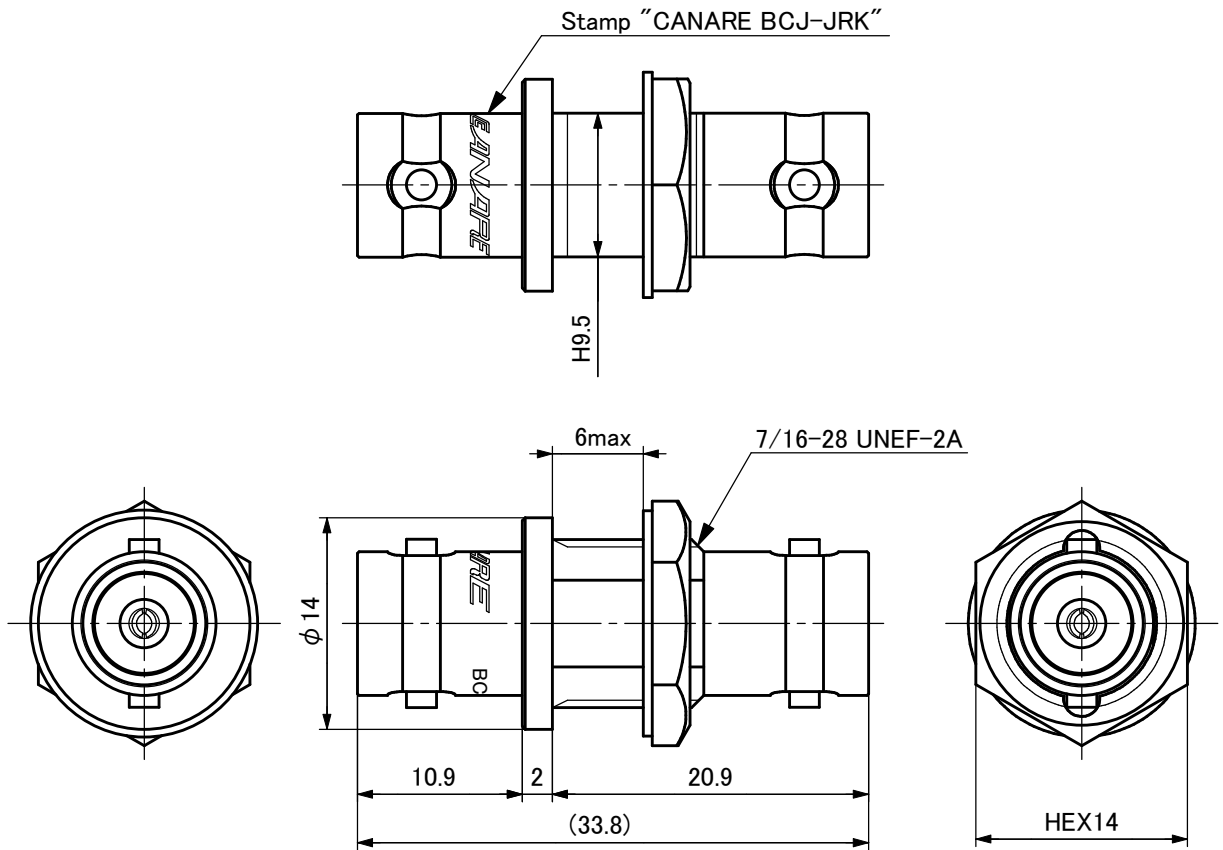
Unless otherwise specified, the standard range of atmospheric conditions for making measurements and tests are as follows: Ambient temperature (15 °C to 35 °C), Relative humidity (25% to 75%), Air pressure (86kPa to 106kPa). If there is any doubt about the results, measurements shall be made within the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

Fig.

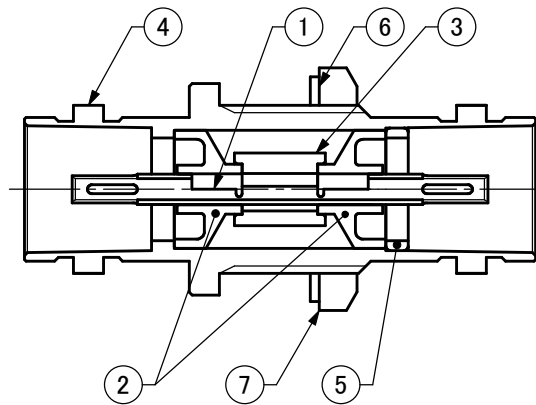
Unit: mm



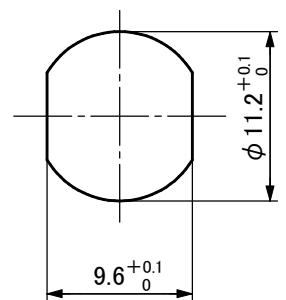
External Appearance



Construction



Mounting Hole



7	Mounting Nut	1	Brass(t2.5)	Nickel Plating					
6	Locked Washer	1	Phosphor Bronze(t0.6)	Nickel Plating					
5	Body 2	1	Brass	Nickel Plating					
4	Body	1	Brass	Nickel Plating					
3	Insulator 2	1	PBT	—					
2	Insulator	2	COC(Gray)	—					
1	Female Center Contact	1	Beryllium Copper	Gold Plating					
No.	Name of Parts	Pc(s).	Material	Finish					
Title	75 Ω BNC RECEPTACLE	PJTN 	Unit mm	Sc. 2:1	Tol. ±0.1	Date 2017-05-02	Ver. 1.0	Model BCJ-JRK	No. BL498

PRODUCT SPECIFICATIONS

(BCJ-JRUK)

SAB500

Ver. 1.0

CANARE ELECTRIC CO., LTD

1. **Scope** This product specification covers the performance of CANARE 75 Ω BNC receptacle.

2. General Specifications

- (1) **Product name** 75 Ω BNC recessed bulkhead receptacle
 (2) **Model name** BCJ-JRUK
 (3) **Applicable standard** IEC*¹ 61169-8, JIS*² C 5412
 (4) **Nominal impedance** 75 Ω unbalanced
 (5) **Construction** As shown in the drawing (BL500).
 (6) **Weight** Approx 18g
 (7) **Designation** Stamp model name (BCJ-JRUK) and brand name (CANARE) on flange.
 (8) **Packaging** 20pcs/package (158 x 132 x 40mm))

*¹International Electrotechnical Commission*²Japanese Industrial Standard

3. Rating

- (1) **Operating temperature** -20 °C ~ +85 °C
 (2) **Operating humidity** ~ 90%

4. Characteristics

4.1 Electrical characteristics As shown in 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 breakdown etc.	1500V a.c. shall be applied for 1 min between the contacts. Trip current :0.5mA.
Contact resistance	Between center contacts: 6mΩ or less Between external contacts: 3mΩ 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)	26dB or more(0 ~ 3GHz) 20dB or more(0 ~ 6GHz) 15dB or more(0 ~ 12GHz)	Terminated with 75 Ω. 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 abnormality	The receptacle and applicable plug shall be engaged.
Female contact retention force	1.5 ~ 3.9N	Following JIS C 5412 pin gauge (Fig.) shall be inserted the female contact and measurement shall be made.
Fixing force of contact with lock mechanism	No displacement more than 0.5 mm.	Tensile strength of 19.6N shall be applied to the axial direction.
Strength of coupling mechanism	Body shall not be disconnected or no deformation shall be made.	The plug and a receptacle shall be engaged, after which tensile strength of 250N and rotation strength of 2.5N·m shall be applied.
Attachment strength	There shall be no break or damage on each part of connector.	The receptacle shall be attached on the chassis and tensile strength of 200N shall be applied to the axial direction.
Mechanical operation (repeated)	Contact resistance: 10m Ω or less	The endurance test consists of 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

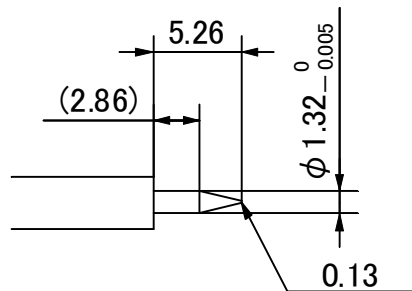
Items	Specified values	Test methods
Corrosion resistance (Salt mist)	Contact resistance: 50m Ω or less Appearance: By visual inspection, without noticeable rust.	The connector shall be subjected continuously to a fine mist of salt solution at a temperature of 35 ± 2 °C for 48h (Salt solution concentration: $5\pm 1\%$ 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

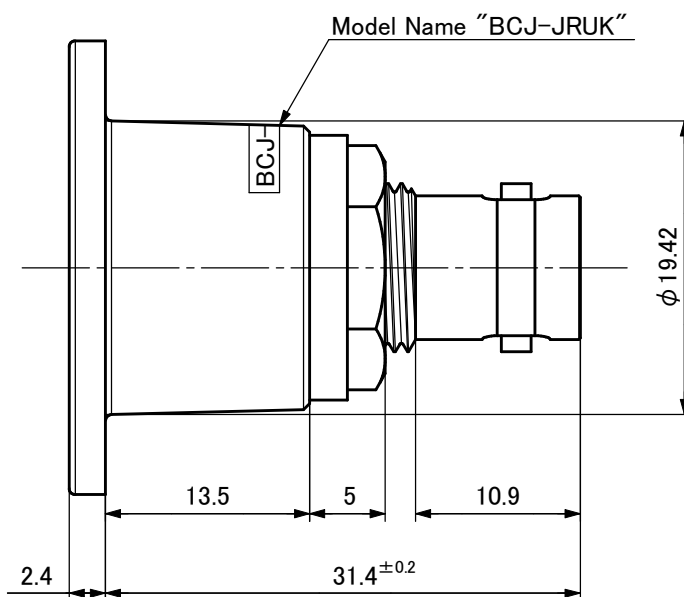
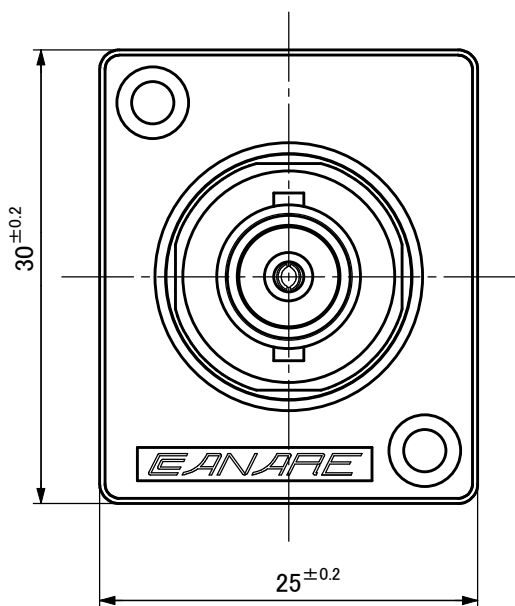
Unless otherwise specified, the standard range of atmospheric conditions for making measurements and tests are as follows: Ambient temperature (15 °C to 35 °C), Relative humidity (25% to 75%), Air pressure (86kPa to 106kPa). If there is any doubt about the results, measurements shall be made within the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

Fig.

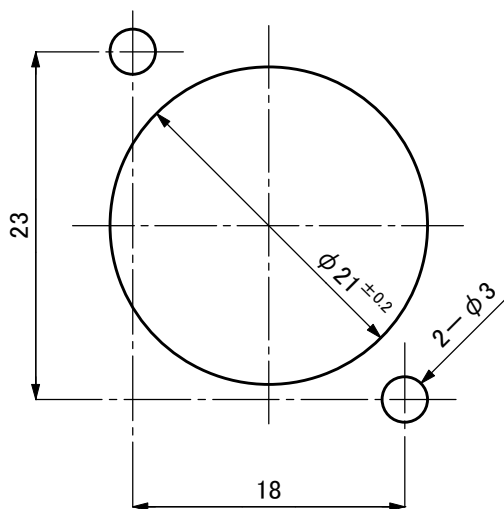
Unit: mm



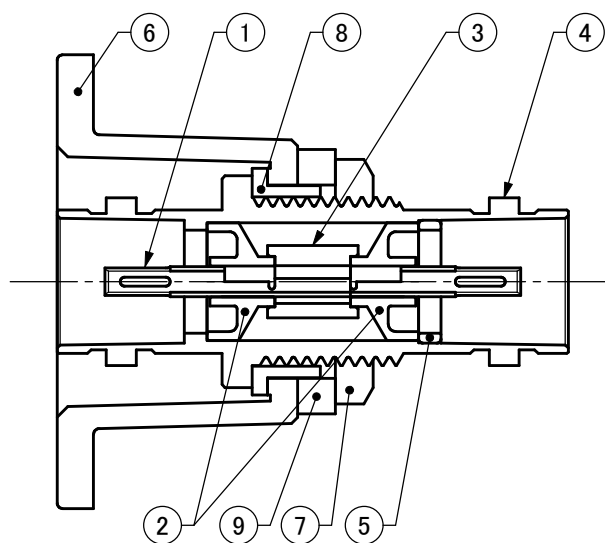
External Appearance



Mounting Hole



Construction



9	Insulation Washer	1	ABS(White)	—					
8	Insulation Bushing	1	ABS(White)	—					
7	Mounting Nut	1	Brass	Nickel Plating					
6	Flange	1	Aluminium Alloy Die Casting	Nickel Plating					
5	Body 2	1	Brass	Nickel Plating					
4	Body	1	Brass	Nickel Plating					
3	Insulator 2	1	PBT	—					
2	Insulator	2	COC(Gray)	—					
1	Female Center Contact	1	Beryllium Copper	Gold Plating					
No.	Name of Parts	Pc(s).	Material	Finish					
Title	75 Ω BNC RECESSED BULKHEAD RECEPTACLE	PJTN	Unit mm	Sc. 2:1	Tol. ± 0.1	Date 2017-05-02	Ver. 1.0	Model BCJ-JRUK	No. BL500

PRODUCT SPECIFICATIONS

(BCJ-JRUDK)

SAB507

Ver. 1.0

CANARE ELECTRIC CO., LTD

1. **Scope** This product specification covers the performance of CANARE 75 Ω BNC receptacle.

2. General Specifications

- (1) **Product name** 75 Ω BNC recessed bulkhead receptacle
 (2) **Model name** BCJ-JRUDK
 (3) **Applicable standard** IEC*¹ 61169-8, JIS*² C 5412
 (4) **Nominal impedance** 75 Ω unbalanced
 (5) **Construction** As shown in the drawing (BL507).
 (6) **Weight** Approx 19g
 (7) **Designation** Stamp model name (BCJ-JRUDK) and brand name (CANARE) on flange.
 (8) **Packaging** 20pcs/package (158 x 132 x 40mm)

*¹International Electrotechnical Commission*²Japanese Industrial Standard

3. Rating

(1) **Operating temperature** -20 °C ~ +85 °C(2) **Operating humidity** ~ 90%

4. Characteristics

4.1 **Electrical characteristics** As shown in **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 breakdown etc.	1500V a.c. shall be applied for 1 min between the contacts. Trip current :0.5mA.
Contact resistance	Between center contacts: 6mΩ or less Between external contacts: 3mΩ 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)	26dB or more(0 ~ 3GHz) 20dB or more(0 ~ 6GHz) 15dB or more(0 ~ 12GHz)	Terminated with 75 Ω. The measurement frequency up to 12GHz.

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

Table 2

Items	Specified values	Test methods
Intermatability	To be engaged without any abnormality	The receptacle and applicable plug shall be engaged.
Female contact retention force	1.5 ~ 3.9N	Following JIS C 5412 pin gauge (Fig.1) shall be inserted the female contact and measurement shall be made.
Fixing force of contact with lock mechanism	No displacement more than 0.5 mm.	Tensile strength of 19.6N shall be applied to the axial direction.
Strength of coupling mechanism	Body shall not be disconnected or no deformation shall be made.	The plug and a receptacle shall be engaged, after which tensile strength of 250N and rotation strength of 2.5N·m shall be applied.
Attachment strength	There shall be no break or damage on each part of connector.	The receptacle shall be attached on the chassis and tensile strength of 200N shall be applied to the axial direction.
Mechanical operation (repeated)	Contact resistance: 10m Ω or less	The endurance test consists of 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

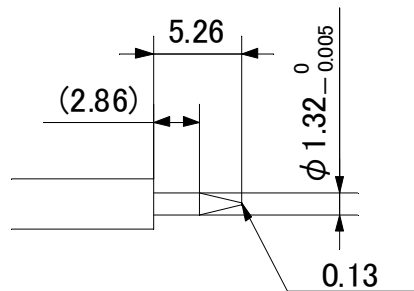
Items	Specified values	Test methods
Corrosion resistance (Salt mist)	Contact resistance: 50m Ω or less Appearance: By visual inspection, without noticeable rust.	The connector shall be subjected continuously to a fine mist of salt solution at a temperature of 35±2 °C for 48h (Salt solution concentration: 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 °C to 35 °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).

Fig.1

Unit: mm



6. Loading procedure: The connectors shall be loaded as follows. Refer to the drawing (BL507) for the panel hole dimensions.

6.1 To load connectors with screws and nuts in a through hole panel, use M3 size screws and nuts.

See **Fig. 2** for FRONT-loading connector and **Fig. 3** for REAR-loading connector.

6.2 To load connectors without using nuts, panel need to have holes for screws with M3 size thread.

Chamfer the front part of holes for proper fitting of screws. Important to consider a space for a portion of incomplete thread on screws. See **Fig. 4**

Fig. 2

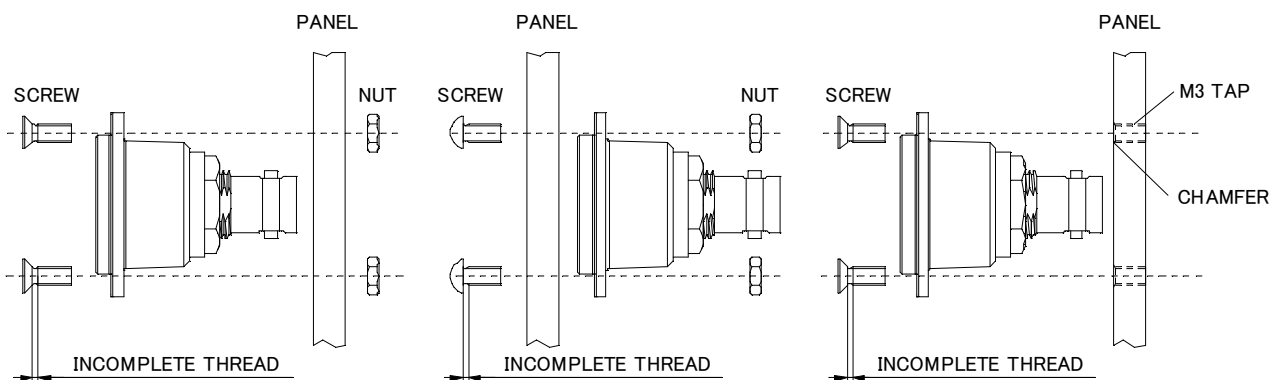
(FRONT-loading connector)

Fig. 3

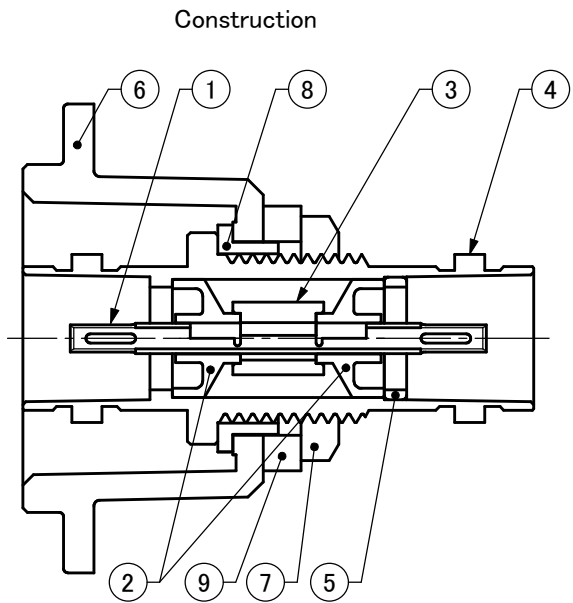
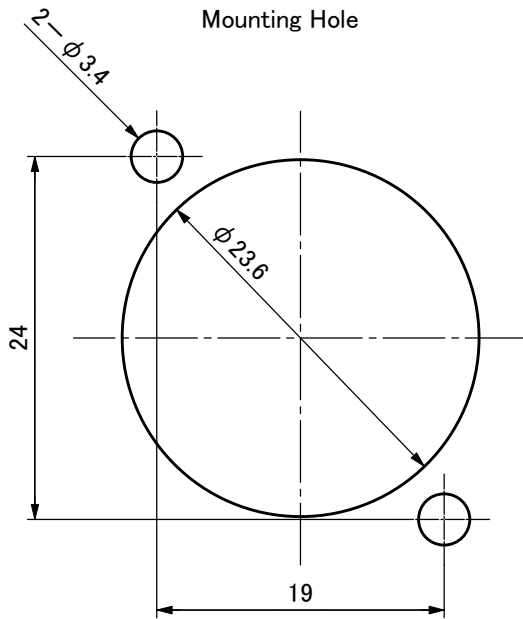
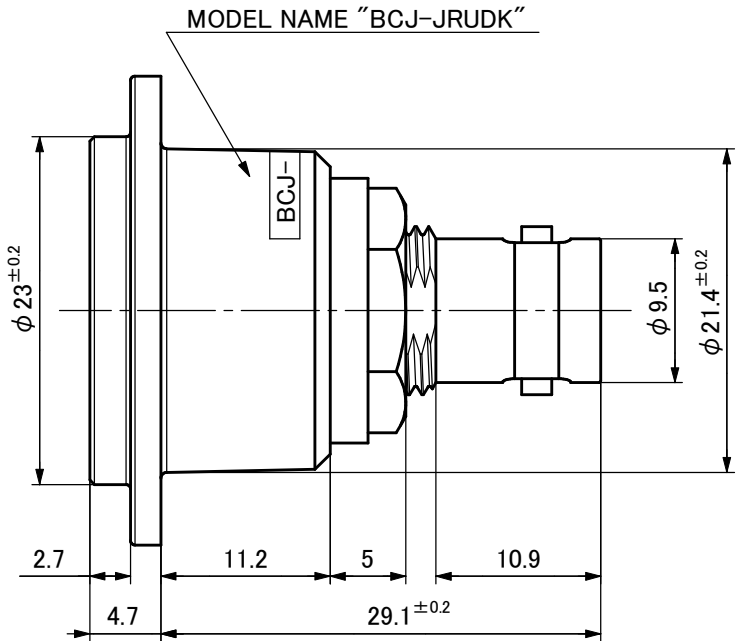
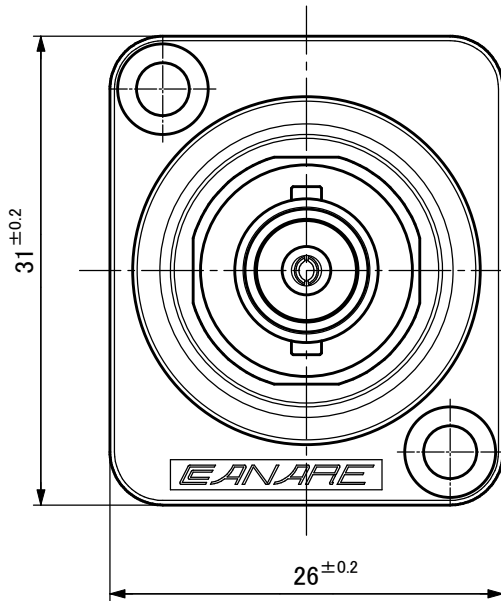
(REAR-loading connector)

Fig. 4

(To load connectors without using nuts)



External Appearance



9	Insulation Washer	1	ABS(White)	—					
8	Insulation Bushing	1	ABS(White)	—					
7	Mouting Nut	1	Brass	Nickel Plating					
6	Flange	1	Aluminium Alloy Die Casting	Nickel Plating					
5	Body 2	1	Brass	Nickel Plating					
4	Body	1	Brass	Nickel Plating					
3	Insulator 2	1	PBT	—					
2	Insulator	2	COC(Gray)	—					
1	Female Center Contact	1	Beryllium Copper	Gold Plating					
No.	Name of Parts	Pc(s).	Material	Finish					
Title	75 Ω BNC RECESSED	PJTN	Unit	Sc.	Tol.	Date	Ver. 1.0	Model	No.
	BULKHEAD RECEPTACLE		mm	2:1	± 0.1	2017-05-02		BCJ-JRUDK	BL507

PRODUCT SPECIFICATIONS

(BCJ-JRUDBK)

SAB508

Ver. 1.0

CANARE ELECTRIC CO., LTD

1. **Scope** This product specification covers the performance of CANARE 75 Ω BNC receptacle.

2. General Specifications

- (1) **Product name** 75 Ω BNC recessed bulkhead receptacle
 (2) **Model name** BCJ-JRUDK
 (3) **Applicable standard** IEC*¹ 61169-8, JIS*² C 5412
 (4) **Nominal impedance** 75 Ω unbalanced
 (5) **Construction** As shown in the drawing (BL508).
 (6) **Weight** Approx 19g
 (7) **Designation** Stamp model name (BCJ-JRUDBK) and brand name (CANARE) on flange.
 (8) **Packaging** 20pcs/package (158 x 132 x 40mm)
 *¹International Electrotechnical Commission
 *²Japanese Industrial Standard

3. Rating

- (1) **Operating temperature** -20 $^{\circ}\text{C}$ ~ +85 $^{\circ}\text{C}$
 (2) **Operating humidity** ~ 90%

4. Characteristics

4.1 Electrical characteristics As shown in Table 1

Table 1

Items	Specified values	Test methods
Insulation resistance	1000M Ω 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.	1500V a.c. shall be applied for 1 min between the contacts. Trip current :0.5mA.
Contact resistance	Between center contacts: 6m Ω or less Between external contacts: 3m Ω 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)	26dB or more(0 ~ 3GHz) 20dB or more(0 ~ 6GHz) 15dB or more(0 ~ 12GHz)	Terminated with 75 Ω . The measurement frequency up to 12GHz.

4.2 Mechanical characteristics As shown in Table 2

Table 2

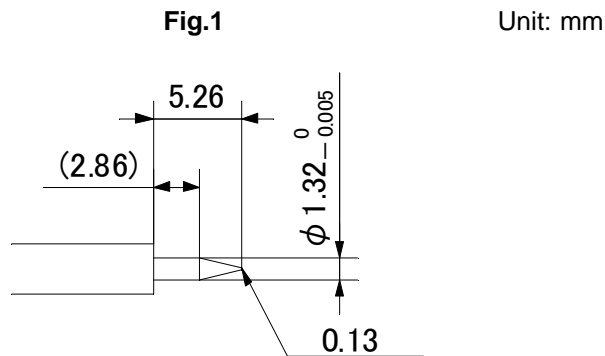
Items	Specified values	Test methods
Intermatability	To be engaged without any abnormality	The receptacle and applicable plug shall be engaged.
Female contact retention force	1.5 ~ 3.9N	Following JIS C 5412 pin gauge (Fig.1) shall be inserted the female contact and measurement shall be made.
Fixing force of contact with lock mechanism	No displacement more than 0.5 mm.	Tensile strength of 19.6N shall be applied to the axial direction.
Strength of coupling mechanism	Body shall not be disconnected or no deformation shall be made.	The plug and a receptacle shall be engaged, after which tensile strength of 250N and rotation strength of 2.5N·m shall be applied.
Attachment strength	There shall be no break or damage on each part of connector.	The receptacle shall be attached on the chassis and tensile strength of 200N shall be applied to the axial direction.
Mechanical operation (repeated)	Contact resistance: 10m Ω or less	The endurance test consists of repeated engagement and separation of connector pairs. The number of operations shall be 5000 cycles.

4.3 Environmental characteristics As shown in Table 3

Items	Specified values	Test methods
Corrosion resistance (Salt mist)	Contact resistance: 50m Ω or less Appearance: By visual inspection, 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 °C to 35 °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).



6. Loading procedure: The connectors shall be loaded as follows. Refer to the drawing (BL508) for the panel hole dimensions.

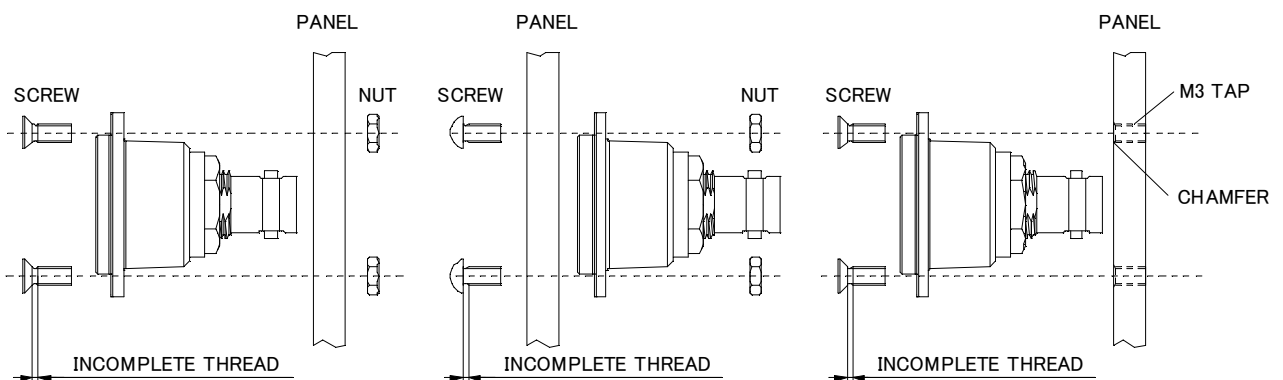
6.1 To load connectors with screws and nuts in a through hole panel, use M3 size screws and nuts.

See **Fig. 2** for FRONT-loading connector and **Fig. 3** for REAR-loading connector.

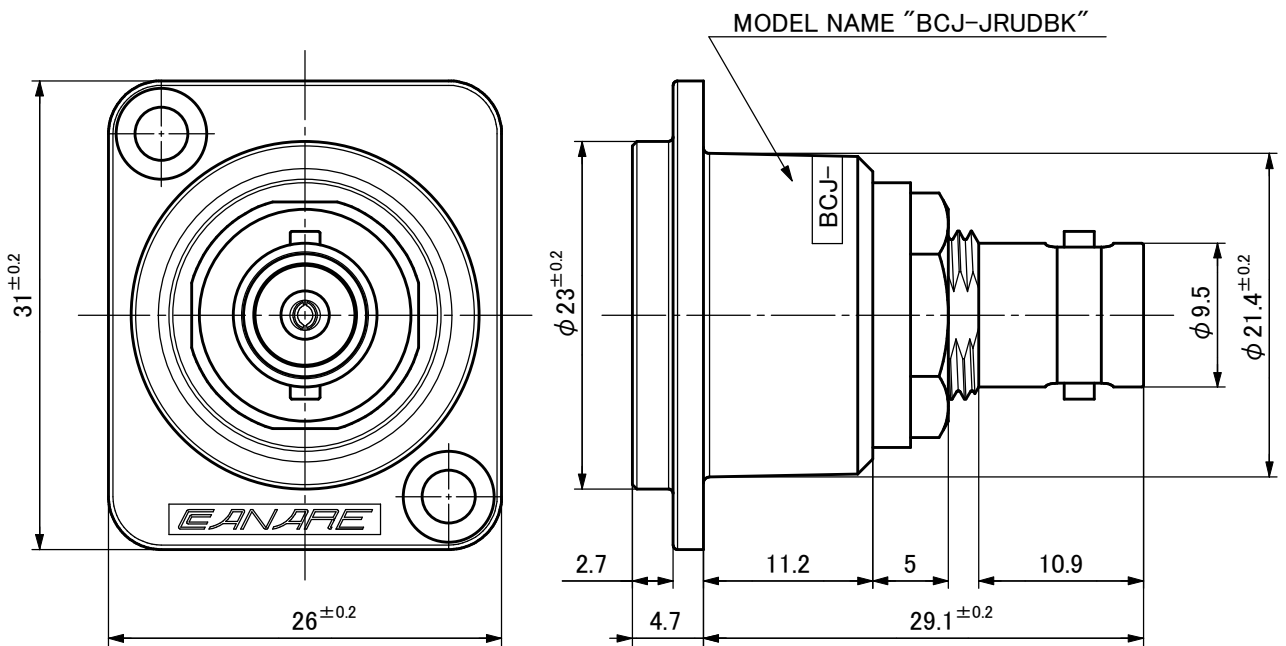
6.2 To load connectors without using nuts, panel need to have holes for screws with M3 size thread.

Chamfer the front part of holes for proper fitting of screws. Important to consider a space for a portion of incomplete thread on screws. See **Fig. 4**

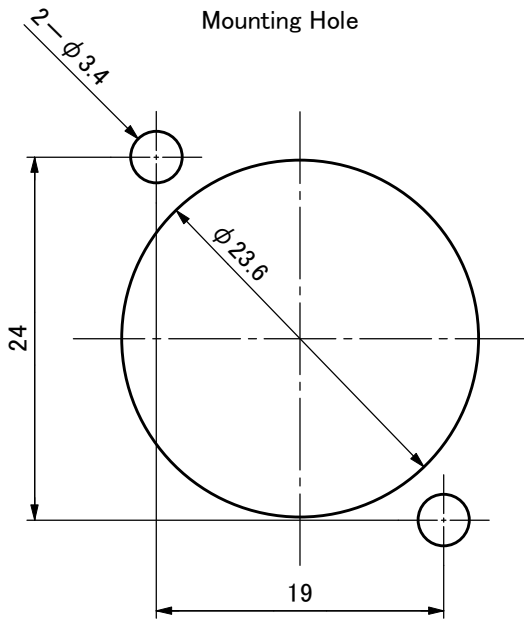
Fig. 2
(FRONT-loading connector)
Fig. 3
(REAR-loading connector)
Fig. 4
(To load connectors without using nuts)



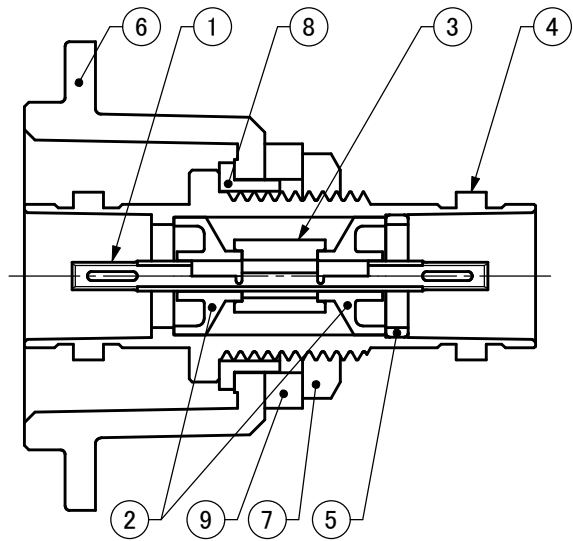
External Appearance



Mounting Hole



Construction



9	Insulation Washer	1	ABS(White)	—
8	Insulation Bushing	1	ABS(White)	—
7	Mouting Nut	1	Brass	Nickel Plating
6	Flange	1	Aluminium Alloy Die Casting	Black Chrome Plating
5	Body 2	1	Brass	Nickel Plating
4	Body	1	Brass	Nickel Plating
3	Insulator 2	1	PBT	—
2	Insulator	2	COC(Gray)	—
1	Female Center Contact	1	Beryllium Copper	Gold Plating
No.	Name of Parts	Pc(s).	Material	Finish
Title	75 Ω BNC RECESSED BULKHEAD RECEPTACLE	PJTN	Unit Sc. Tol. Date Ver. 1.0	Model No.
			mm 2:1 ±0.1 2017-05-02	BCJ-JRUBBK BL508

PRODUCT SPECIFICATIONS

(BCJ-JRUD)

SAB322

Ver. 1.1

CANARE ELECTRIC CO., LTD

BNC receptacle.

1. Scope This product specification covers the performance of CANARE 75**2. General Specifications**

- (1) **Product name** 75 BNC recessed bulkhead receptacle
 (2) **Model name** BCJ-JRUD
 (3) **Applicable standard** JIS* C 5412
 (4) **Nominal impedance** 75 unbalanced
 (5) **Construction** As shown in the drawing (BL322).
 (6) **Weight** Approx 19.6g
 (7) **Designation** Stamp model name (BCJ-JRUD) and brand name (CANARE) on flange.
 (8) **Packaging** 20pcs/package (158 x 132 x 40mm)
 *Japanese Industrial Standard

3. Rating

- (1) **Operating temperature** -20 ~ +85
 (2) **Operating humidity** ~ 90%

4. Characteristics**4.1 Electrical characteristics** As shown in **Table 1****Table 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.	1500V a.c. shall be applied for 1 min between 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	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 abnormality	The receptacle and applicable plug shall be engaged.
Female contact retention force	1.5 ~ 3.9N	Following JIS C 5412 pin gauge (Fig.1) shall be inserted the female contact and measurement shall be made.
Fixing force of contact with lock mechanism	No displacement more than 0.5 mm.	Tensile strength of 19.6N shall be applied to the axial direction.
Strength of coupling mechanism	Body shall not be disconnected or no deformation shall be made.	The plug and a receptacle shall be engaged, after which tensile strength of 250N and rotation strength of 2.5N·m shall be applied.
Attachment strength	There shall be no break or damage on each part of connector.	The receptacle shall be attached on the chassis and tensile strength of 200N shall be applied to the axial direction.
Mechanical operation (repeated)	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.

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

Table 3

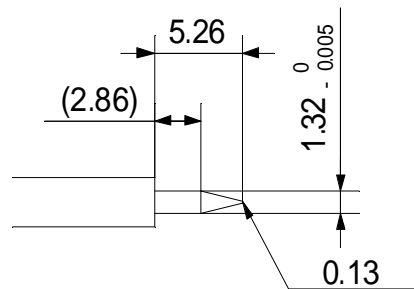
Items	Specified values	Test methods
Corrosion resistance (Salt mist)	Contact resistance: 50m or less Appearance: By visual inspection, without noticeable rust.	The connector shall be subjected continuously to a fine mist of salt solution at a temperature of 35 ± 2 for 48h (Salt solution concentration: $5 \pm 1\%$ 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).

Fig.1

Unit: mm



6. Loading procedure: The connectors shall be loaded as follows. Refer to the drawing (BL322) for the panel hole dimensions.

6.1 To load connectors with screws and nuts in a through hole panel, use M3 size screws and nuts.

See **Fig. 2** for FRONT-loading connector and **Fig. 3** for REAR-loading connector.

6.2 To load connectors without using nuts, panel need to have holes for screws with M3 size thread.

Chamfer the front part of holes for proper fitting of screws. Important to consider a space for a portion of incomplete thread on screws. See **Fig. 4**

Fig. 2

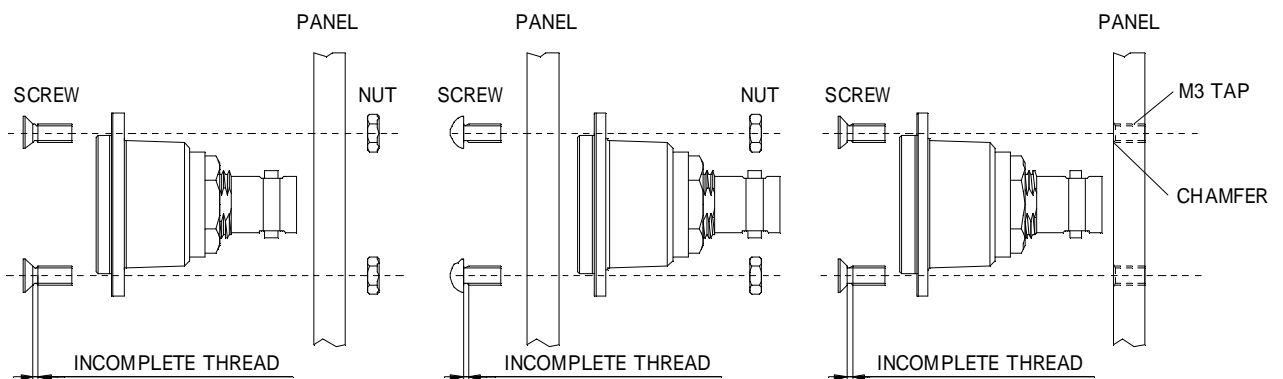
(FRONT-loading connector)

Fig. 3

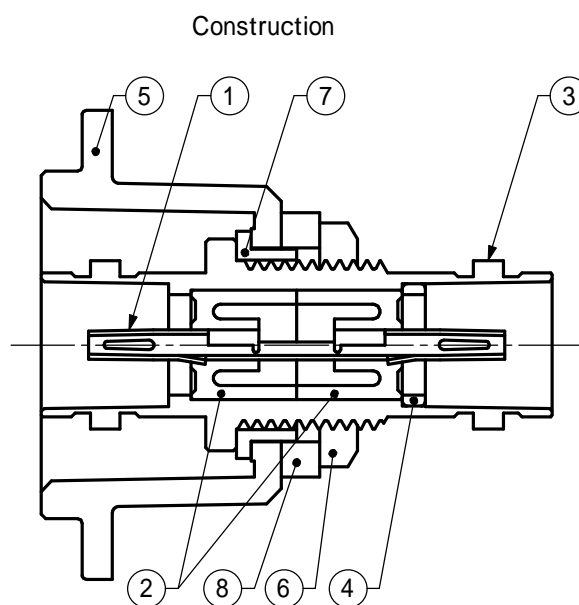
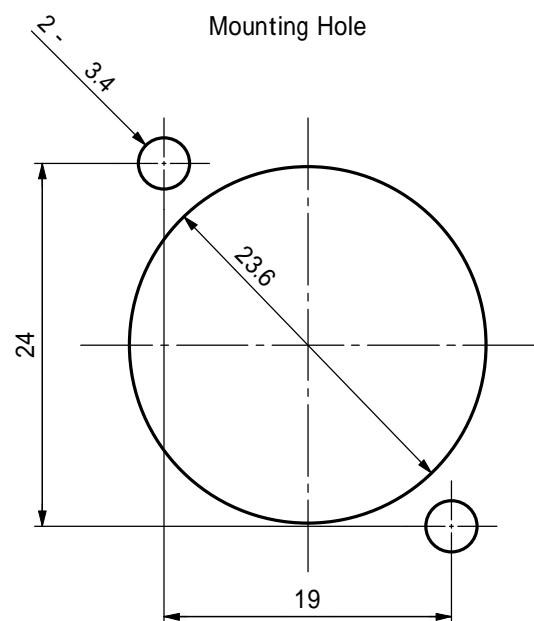
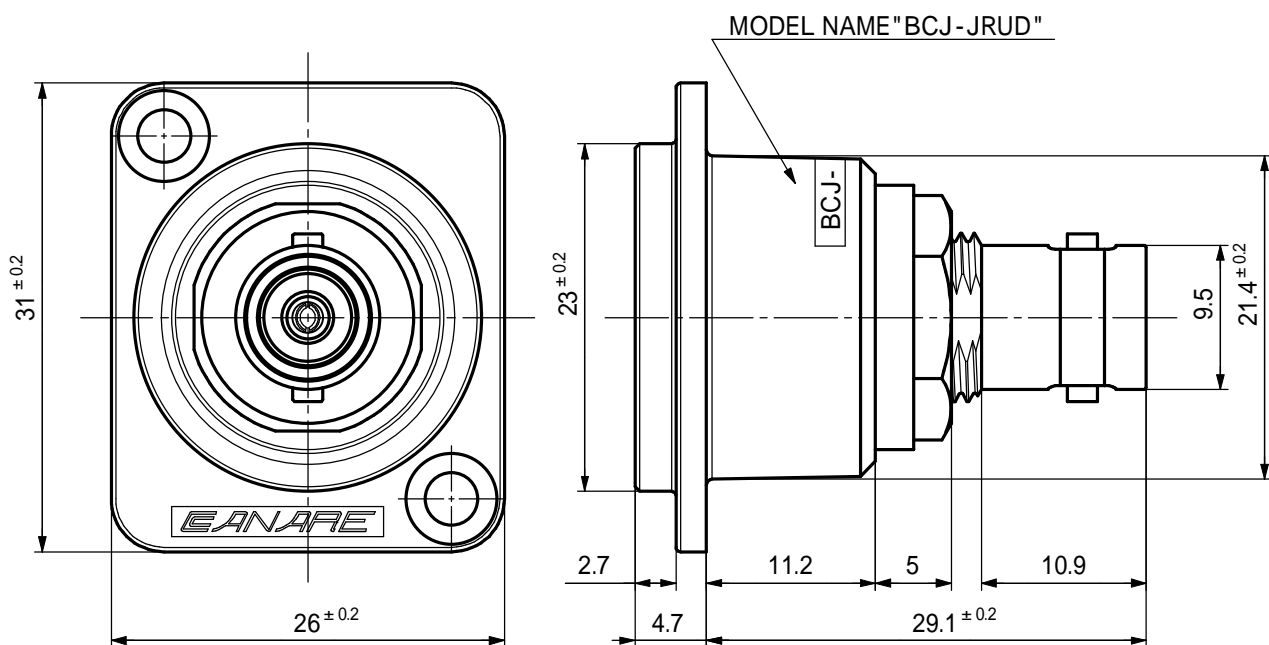
(REAR-loading connector)

Fig. 4

(To load connectors without using nuts)



External Appearance



8	Insulation Washer	1	ABS(White)	-					
7	Insulation Bushing	1	ABS(White)	-					
6	Mouting Nut	1	Brass	Nickel Plating					
5	Flange	1	Aluminium Alloy Die Casting	Nickel Plating					
4	Body2	1	Brass	Nickel Plating					
3	Body	1	Brass	Nickel Plating					
2	Insulator	1	Amorphous Polyolefin	-					
1	Female Center Contact	1	Beryllium Copper	Gold Plating					
No.	Name of Parts	Pc(s).	Material	Finish					
Title	75 BNC RECESSED BULKHEAD RECEPTACLE	PJTN	Unit mm	Sc. 2:1	Tol. ± 0.1	Date 2004-09-15	Ver. 1.0	Model BCJ-JRUD	No. BL322

PRODUCT SPECIFICATIONS

(BCJ-JRUDB)

SAB323

Ver. 1.1

CANARE ELECTRIC CO., LTD

BNC receptacle.

1. Scope This product specification covers the performance of CANARE 75**2. General Specifications**

- (1) **Product name** 75 BNC recessed bulkhead receptacle
 (2) **Model name** BCJ-JRUDB
 (3) **Applicable standard** JIS* C 5412
 (4) **Nominal impedance** 75 unbalanced
 (5) **Construction** As shown in the drawing (BL323).
 (6) **Weight** Approx 19.6g
 (7) **Designation** Stamp model name (BCJ-JRUDB) and brand name (CANARE) on flange.
 (8) **Packaging** 20pcs/package (158 x 132 x 40mm)
 *Japanese Industrial Standard

3. Rating

- (1) **Operating temperature** -20 ~ +85
 (2) **Operating humidity** ~ 90%

4. Characteristics**4.1 Electrical characteristics** As shown in **Table 1****Table 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.	1500V a.c. shall be applied for 1 min between 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	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 abnormality	The receptacle and applicable plug shall be engaged.
Female contact retention force	1.5 ~ 3.9N	Following JIS C 5412 pin gauge (Fig.1) shall be inserted the female contact and measurement shall be made.
Fixing force of contact with lock mechanism	No displacement more than 0.5 mm.	Tensile strength of 19.6N shall be applied to the axial direction.
Strength of coupling mechanism	Body shall not be disconnected or no deformation shall be made.	The plug and a receptacle shall be engaged, after which tensile strength of 250N and rotation strength of 2.5N·m shall be applied.
Attachment strength	There shall be no break or damage on each part of connector.	The receptacle shall be attached on the chassis and tensile strength of 200N shall be applied to the axial direction.
Mechanical operation (repeated)	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.

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

Table 3

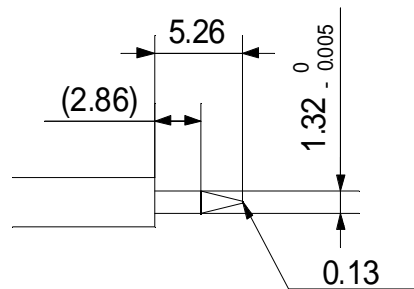
Items	Specified values	Test methods
Corrosion resistance (Salt mist)	Contact resistance: 50m or less Appearance: By visual inspection, without noticeable rust.	The connector shall be subjected continuously to a fine mist of salt solution at a temperature of 35 ± 2 for 48h (Salt solution concentration: $5 \pm 1\%$ 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).

Fig.1

Unit: mm



6. Loading procedure: The connectors shall be loaded as follows. Refer to the drawing (BL322) for the panel hole dimensions.

6.1 To load connectors with screws and nuts in a through hole panel, use M3 size screws and nuts. See **Fig. 2** for FRONT-loading connector and **Fig. 3** for REAR-loading connector.

6.2 To load connectors without using nuts, panel need to have holes for screws with M3 size thread. Chamfer the front part of holes for proper fitting of screws. Important to consider a space for a portion of incomplete thread on screws. See **Fig. 4**

Fig. 2

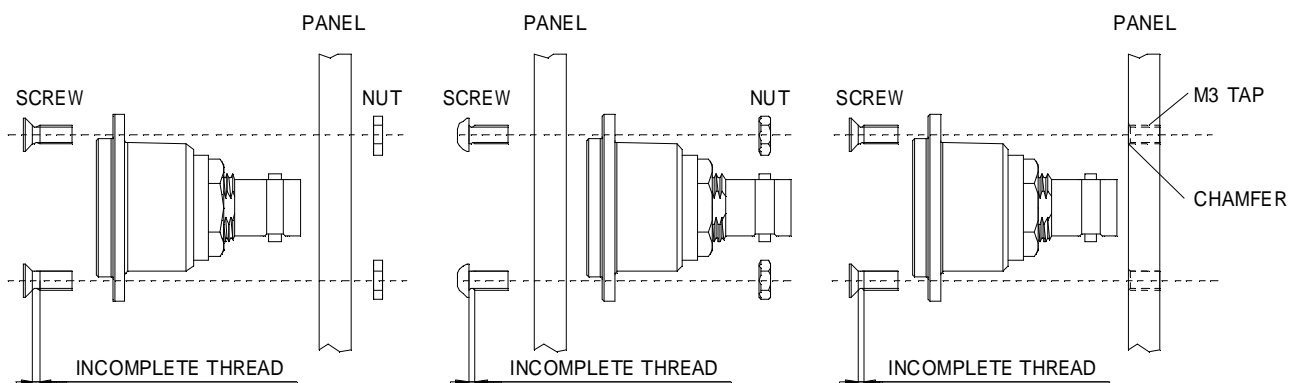
(FRONT-loading connector)

Fig. 3

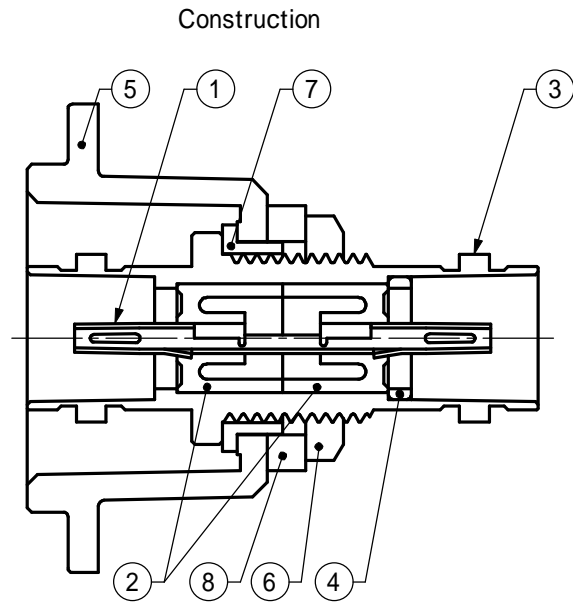
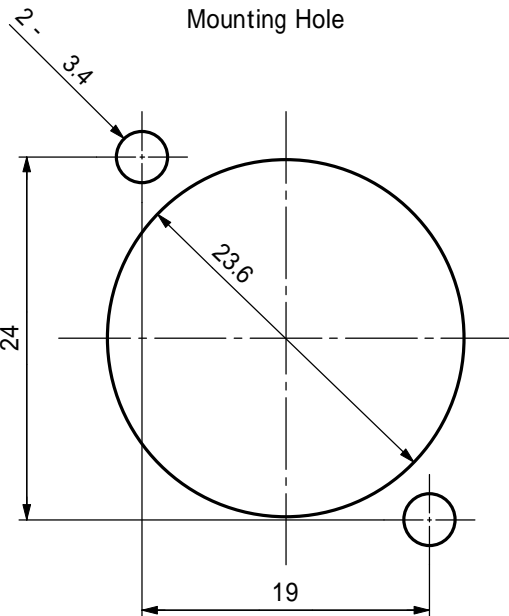
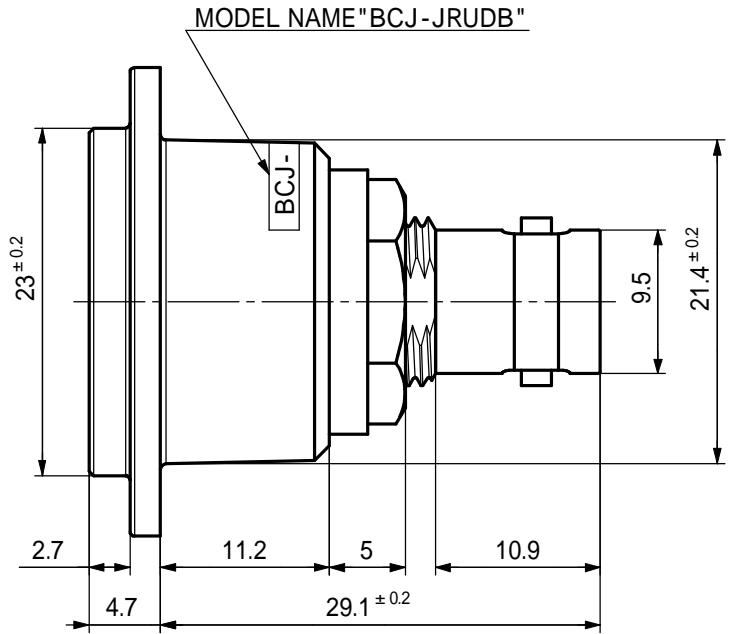
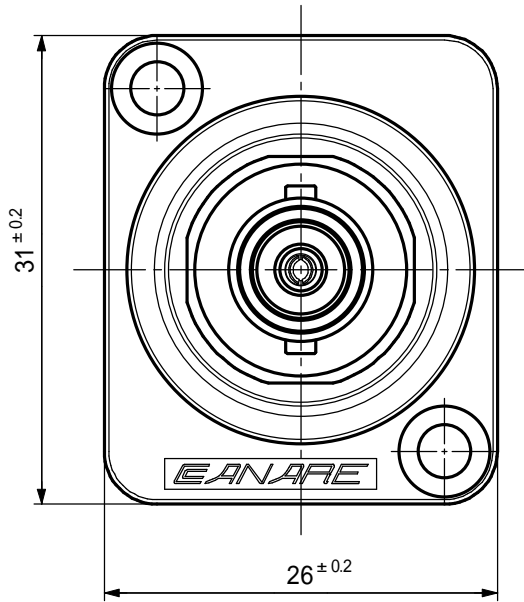
(REAR-loading connector)

Fig. 4

(To load connectors without using nuts)



External Appearance



8	Insulation Washer	1	ABS(White)	-
7	Insulation Bushing	1	ABS(White)	-
6	Mouting Nut	1	Brass	Nickel Plating
5	Flange	1	Aluminium Alloy Die Casting	Black Chrome Plating
4	Body2	1	Brass	Nickel Plating
3	Body	1	Brass	Nickel Plating
2	Insulator	1	Amorphous Polyolefin	-
1	Female Center Contact	1	Beryllium Copper	Gold Plating

No.	Name of Parts	Pc(s).	Material				Finish		
Title	75 BNC RECESSED BULKHEAD RECEPTACLE	PJTN	Unit	Sc.	Tol.	Date	Ver. 1.0	Model	No.
			mm	2:1	± 0.1	2004-09-15		BCJ-JRUBD	BL323

PRODUCT SPECIFICATIONS

(BCJ-R)

SAB001B

Ver. 1.2

CANARE ELECTRIC CO., LTD

1. **Scope** This product specification covers the performance of CANARE 75 BNC receptacle.

2. General Specifications

- (1) **Product name** 75 BNC receptacle
 (2) **Model name** BCJ-R
 (3) **Applicable standard** JIS* C 5412
 (4) **Nominal impedance** 75 unbalanced
 (5) **Construction** As shown in the drawing (BL001A).
 (6) **Weight** Approx 6.5g (including mounting nut and locked washer)
 (7) **Designation** Stamp model name (BCJ-R) and brand name (CANARE) on the body.
 (8) **Packaging** 20pcs/package (150 x 50 x 44mm), 100pcs/package (220 x158 x 50mm)
 *Japanese Industrial Standard

3. Rating

- (1) **Operating temperature** -40 ~ +120
 (2) **Operating humidity** ~ 90%

4. Characteristics**4.1 Electrical characteristics** As shown in **Table 1****Table 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.	1500V a.c. shall be applied for 1 min between the contacts. Trip current :0.5mA.
Contact resistance	Between external contacts: 3m or less Between center contacts: 6m 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	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 abnormality	The receptacle and applicable plug shall be engaged.
Female contact retention force	1.5 ~ 3.9N	Following JIS C 5412 pin gauge (Fig.) shall be inserted the female contact and measurement shall be made.
Fixing force of contact with lock mechanism	No displacement more than 0.5 mm.	Tensile strength of 19.6N shall be applied to the axial direction.
Strength of coupling mechanism	Body shall not be disconnected or no deformation shall be made.	The plug and a receptacle shall be engaged, after which tensile strength of 245N and rotation strength of 2.45N·m shall be applied.
Mechanical operation (repeated)	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.

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

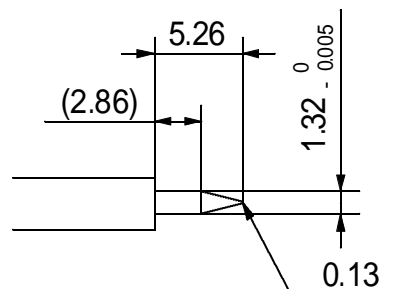
Items	Specified values	Test methods
Corrosion resistance (Salt mist)	Contact resistance: 50m or less	The connector shall be subjected continuously to a fine mist of salt solution at a temperature of 35 ± 2 for 48h (Salt solution concentration: $5\pm 1\%$ by weight). Then it shall be subjected to standard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

5. Measurement conditions

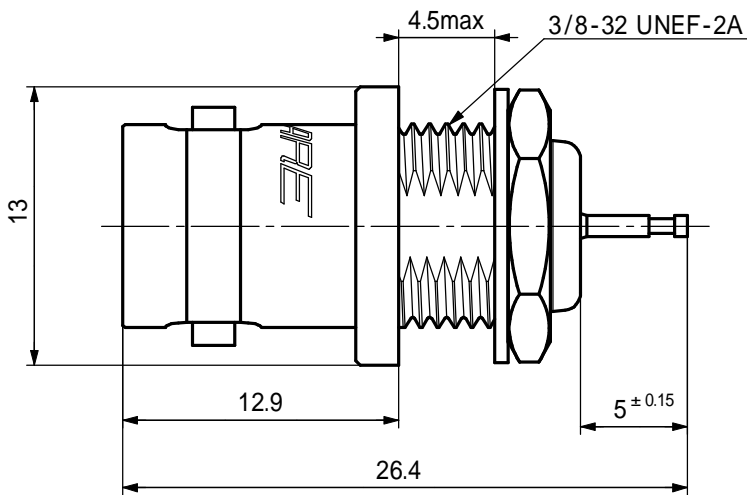
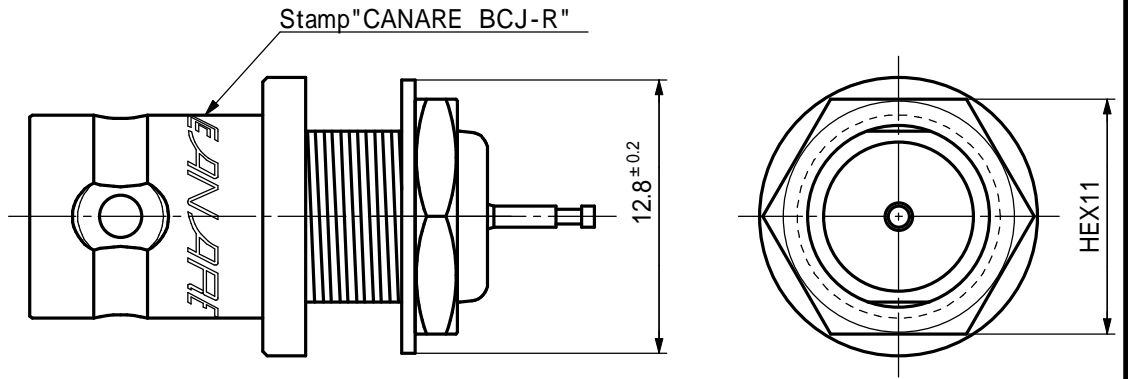
Unless otherwise specified, the standard range of atmospheric conditions for making measurements and tests are as follows: Ambient temperature (15 to 35), Relative humidity (25% to 75%), Air pressure (86kPa to 106kPa). If there is any doubt about the results, measurements shall be made within the following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

Fig.

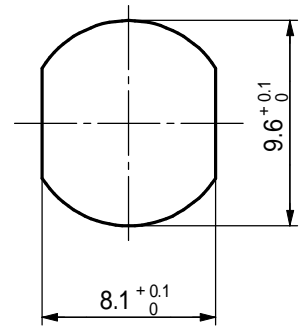
Unit: mm



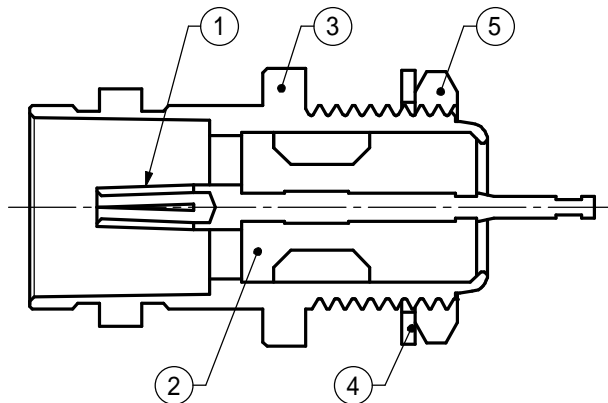
External Appearance



Mounting Hole



Construction



5	Mounting Nut	1	Steel(t2)	Nickel Plating
4	Locked Washer	1	Steel(t0.6)	Chromating
3	Body	1	Brass	Nickel Plating
2	Insulator	1	PTFE	-
1	Female Center Contact	1	Beryllium Copper	Gold Plating
No.	Name of Parts	Pc(s).	Material	Finish
Title	75 BNC RECEPTACLE	PJTN	Unit Sc. Tol. Date Ver. 1.1	Model No.
			mm 2 2:1 ± 0.1 2009-05-12	BCJ-R BL001A

PRODUCT SPECIFICATIONS

(BCJ-R/1)

SAB010C

Ver. 2.1

CANARE ELECTRIC CO., LTD

1. **Scope** This product specification covers the performance of CANARE 75 BNC receptacle.

2. General Specifications

- (1) **Product name** 75 BNC receptacle
 (2) **Model name** BCJ-R/1
 (3) **Applicable standard** JIS* C 5412
 (4) **Nominal impedance** 75 unbalanced
 (5) **Construction** As shown in the drawing (BL010C).
 (6) **Weight** Approx 9.6g (including mounting nut and locked washer)
 (7) **Designation** Stamp model name (BCJ-R/1) and brand name (CANARE) on the body.
 (8) **Packaging** 20pcs/package (150 x 50 x 44mm), 100pcs/package (220 x158 x 50mm)
 *Japanese Industrial Standard

3. Rating

- (1) **Operating temperature** -40 ~ +120
 (2) **Operating humidity** ~ 90%

4. Characteristics**4.1 Electrical characteristics** As shown in **Table 1****Table 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.	1500V a.c. shall be applied for 1 min between 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	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 abnormality	The receptacle and applicable plug shall be engaged.
Female contact retention force	1.5 ~ 3.9N	Following JIS C 5412 pin gauge (Fig.) shall be inserted the female contact and measurement shall be made.
Fixing force of contact with lock mechanism	No displacement more than 0.5 mm.	Tensile strength of 19.6N shall be applied to the axial direction.
Strength of coupling mechanism	Body shall not be disconnected or no deformation shall be made.	The plug and a receptacle shall be engaged, after which tensile strength of 250N and rotation strength of 2.5N·m shall be applied.
Attachment strength	There shall be no break or damage on each part of connector.	The receptacle shall be attached on the chassis and tensile strength of 200N shall be applied to the axial direction.
Mechanical operation (repeated)	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.

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

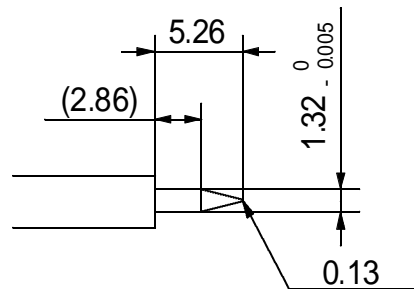
Items	Specified values	Test methods
Corrosion resistance (Salt mist)	Contact resistance: 50mΩ or less Appearance: By visual inspection, without noticeable rust.	The connector shall be subjected continuously to a fine mist of salt solution at a temperature of 35 ± 2 °C for 48h (Salt solution concentration: $5\pm 1\%$ 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

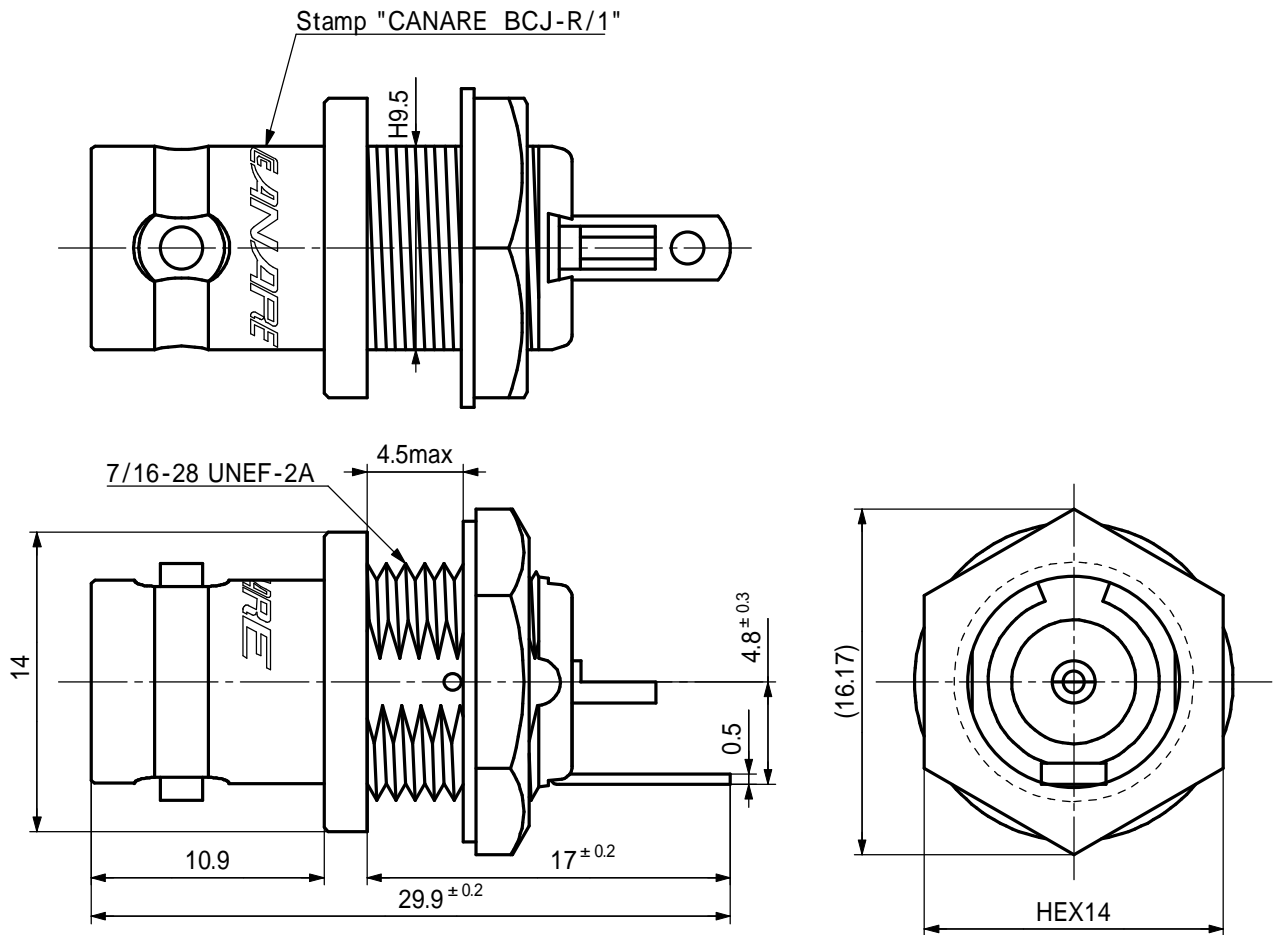
Unless otherwise specified, the standard range of atmospheric conditions for making measurements and tests are as follows: Ambient temperature (15 °C to 35 °C), Relative humidity (25% to 75%), Air pressure (86kPa to 106kPa). If there is any doubt about the results, measurements shall be made within the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

Fig.

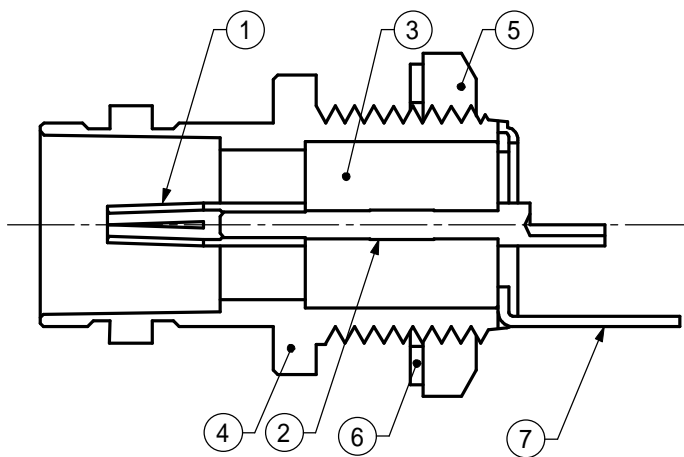
Unit: mm



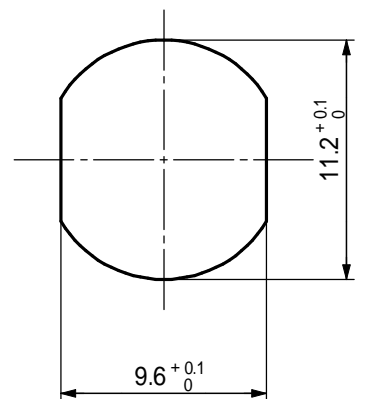
External Appearance



Construction



Mounting Hole



7	Ground Lug	1	Brass	Sn-Cu Plating
6	Locked Washer	1	Phosphor Bronze(t0.6)	Nickel Plating
5	Mounting Nut	1	Brass(t2.5)	Nickel Plating
4	Body	1	Brass	Nickel Plating
3	Insulator	1	PTFE	-
2	Center Contact	1	Brass	Gold Plating
1	Female Center Contact	1	Beryllium Copper	Gold Plating
No.	Name of Parts	Pc(s).	Material	Finish
Title	75 BNC RECEPTACLE	PJTN	Unit Sc. Tol. Date Ver. 2.1	Model No.
			mm 2 2:1 ±0.1 2005-10-07	BCJ-R/1 BL010C

PRODUCT SPECIFICATIONS

(BCJ-RU)

SAB002D

Ver. 2.2

CANARE ELECTRIC CO., LTD

1. **Scope** This product specification covers the performance of CANARE 75 BNC receptacle.

2. General Specifications

- (1) **Product name** 75 BNC recessed bulkhead receptacle
 (2) **Model name** BCJ-RU
 (3) **Applicable standard** JIS* C 5412
 (4) **Nominal impedance** 75 unbalanced
 (5) **Construction** As shown in the drawing (BL002C).
 (6) **Weight** Approx 16.5g
 (7) **Designation** Stamp model name (BCJ-RU) and brand name (CANARE) on flange.
 (8) **Packaging** 20pcs/package (158 x 132 x 40mm)
 *Japanese Industrial Standard

3. Rating

- (1) **Operating temperature** -20 ~ +85
 (2) **Operating humidity** ~ 90%

4. Characteristics**4.1 Electrical characteristics** As shown in **Table 1****Table 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.	1500V a.c. shall be applied for 1 min between 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	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 abnormality	The receptacle and applicable plug shall be engaged.
Female contact retention force	1.5 ~ 3.9N	Following JIS C 5412 pin gauge (Fig.) shall be inserted the female contact and measurement shall be made.
Fixing force of contact with lock mechanism	No displacement more than 0.5 mm.	Tensile strength of 19.6N shall be applied to the axial direction.
Strength of coupling mechanism	Body shall not be disconnected or no deformation shall be made.	The plug and a receptacle shall be engaged, after which tensile strength of 250N and rotation strength of 2.5N·m shall be applied.
Attachment strength	There shall be no break or damage on each part of connector.	The receptacle shall be attached on the chassis and tensile strength of 196N shall be applied to the axial direction.
Mechanical operation (repeated)	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.

4.3 Environmental characteristics As shown in Table 3

Table 3

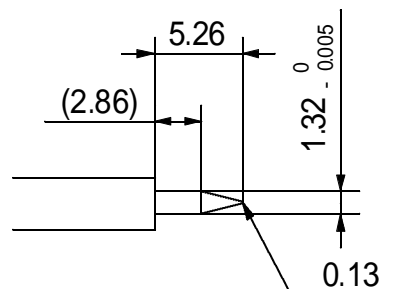
Items	Specified values	Test methods
Corrosion resistance (Salt mist)	Contact resistance: 50m or less Appearance: By visual inspection, without noticeable rust.	The connector shall be subjected continuously to a fine mist of salt solution at a temperature of 35 ± 2 for 48h (Salt solution concentration: $5\pm 1\%$ 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

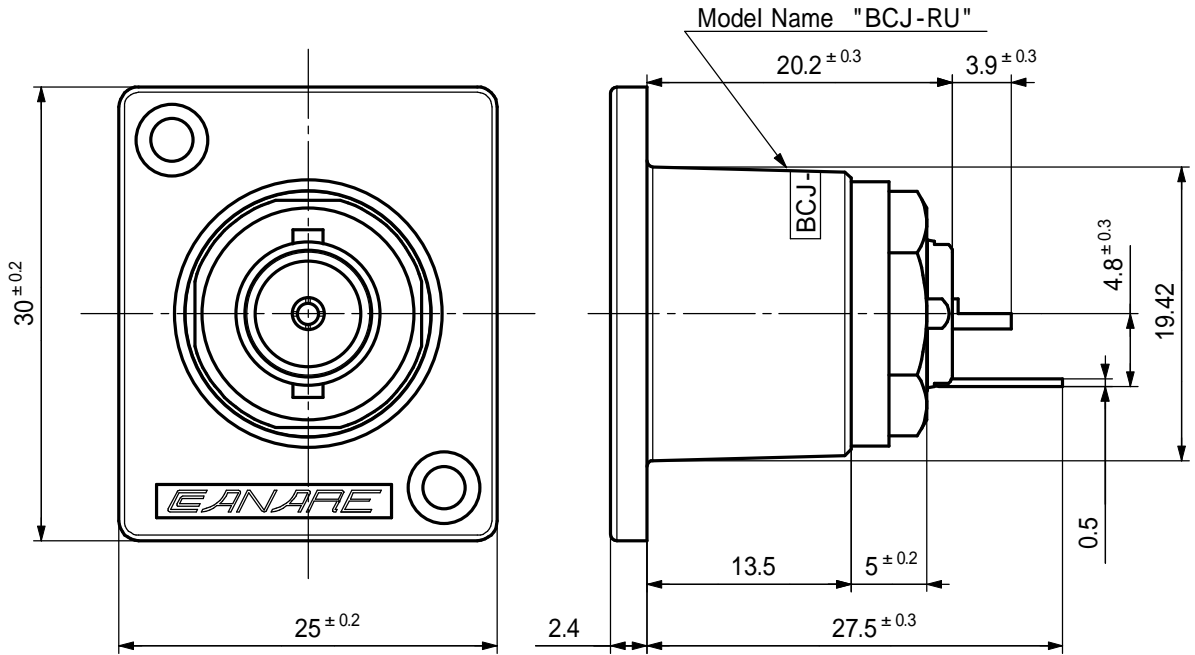
Unless otherwise specified, the standard range of atmospheric conditions for making measurements and tests are as follows: Ambient temperature (15 to 35), Relative humidity (25% to 75%), Air pressure (86kPa to 106kPa). If there is any doubt about the results, measurements shall be made within the following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

Fig.

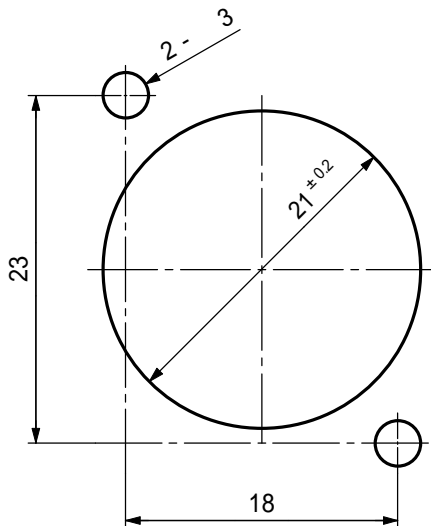
Unit: mm



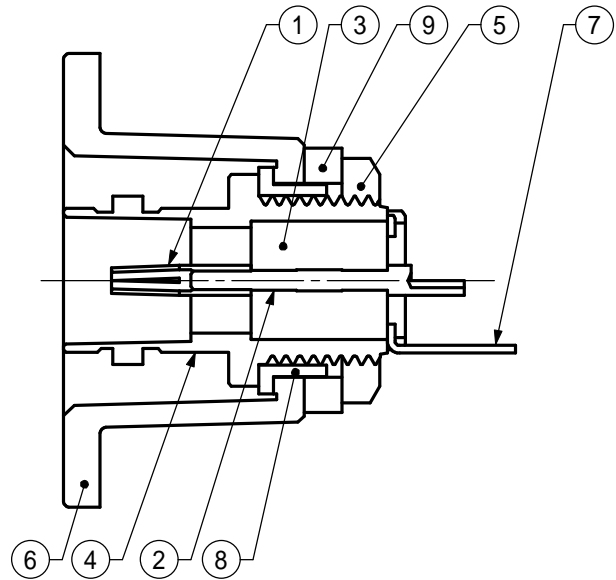
External Appearance



Mounting Hole



Construction



9	Insulation Washer	1	ABS(White)	-
8	Insulation Bushing	1	ABS(White)	-
7	Ground Lug	1	Brass	Sn-Cu Plating
6	Flange	1	Aluminium Alloy Die Casting	Nickel Plating
5	Mouting Nut	1	Brass	Nickel Plating
4	Body	1	Brass	Nickel Plating
3	Insulator	1	PTFE	-
2	Center Contact	1	Brass	Gold Plating
1	Female Center Contact	1	Beryllium Copper	Gold Plating
No.	Name of Parts	Pc(s).	Material	Finish
Title	75 BNC RECESSED BULKHEAD RECEPTACLE	PJTN	Unit Sc. Tol. Date Ver. 2.2	Model No.
			mm 2:1 ± 0.1 2005-10-07	BCJ-RU BL002C

PRODUCT SPECIFICATIONS

(BCJ-RUD)

SAB324

Ver. 1.1

CANARE ELECTRIC CO., LTD

BNC receptacle.

1. Scope This product specification covers the performance of CANARE 75**2. General Specifications**

- (1) **Product name** 75 BNC recessed bulkhead receptacle
 (2) **Model name** BCJ-RUD
 (3) **Applicable standard** JIS* C 5412
 (4) **Nominal impedance** 75 unbalanced
 (5) **Construction** As shown in the drawing (BL324).
 (6) **Weight** Approx 17.6g
 (7) **Designation** Stamp model name (BCJ-RUD) and brand name (CANARE) on flange.
 (8) **Packaging** 20pcs/package (158 x 132 x 40mm)
 *Japanese Industrial Standard

3. Rating

- (1) **Operating temperature** -20 ~ +85
 (2) **Operating humidity** ~ 90%

4. Characteristics**4.1 Electrical characteristics** As shown in **Table 1****Table 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.	1500V a.c. shall be applied for 1 min between 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	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 abnormality	The receptacle and applicable plug shall be engaged.
Female contact retention force	1.5 ~ 3.9N	Following JIS C 5412 pin gauge (Fig.1) shall be inserted the female contact and measurement shall be made.
Fixing force of contact with lock mechanism	No displacement more than 0.5 mm.	Tensile strength of 19.6N shall be applied to the axial direction.
Strength of coupling mechanism	Body shall not be disconnected or no deformation shall be made.	The plug and a receptacle shall be engaged, after which tensile strength of 250N and rotation strength of 2.5N·m shall be applied.
Attachment strength	There shall be no break or damage on each part of connector.	The receptacle shall be attached on the chassis and tensile strength of 200N shall be applied to the axial direction.
Mechanical operation (repeated)	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.

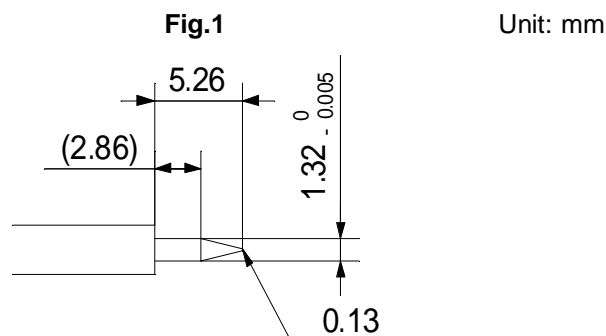
4.3 Environmental characteristics As shown in **Table 3**

Table 3

Items	Specified values	Test methods
Corrosion resistance (Salt mist)	Contact resistance: 50m or less Appearance: By visual inspection, without noticeable rust.	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).



6. Loading procedure: The connectors shall be loaded as follows. Refer to the drawing (BL322) for the panel hole dimensions.

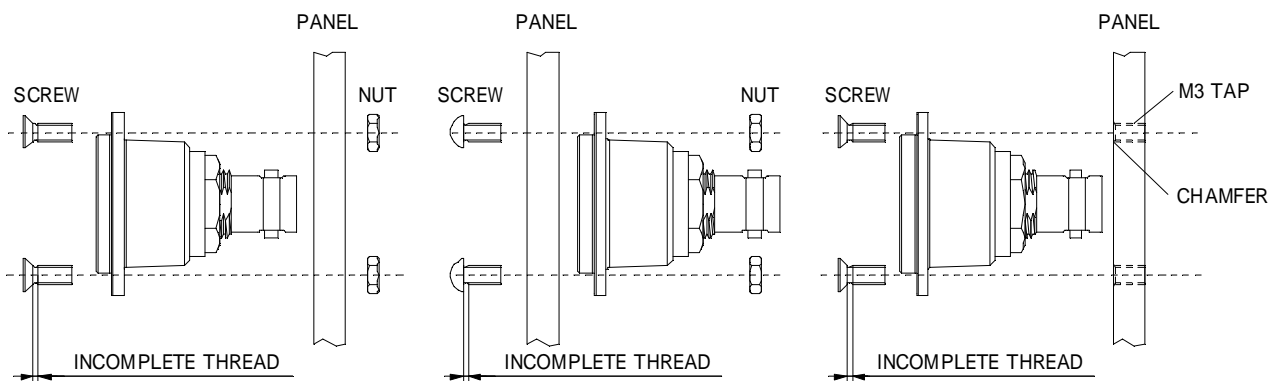
6.1 To load connectors with screws and nuts in a through hole panel, use M3 size screws and nuts.

See **Fig. 2** for FRONT-loading connector and **Fig. 3** for REAR-loading connector.

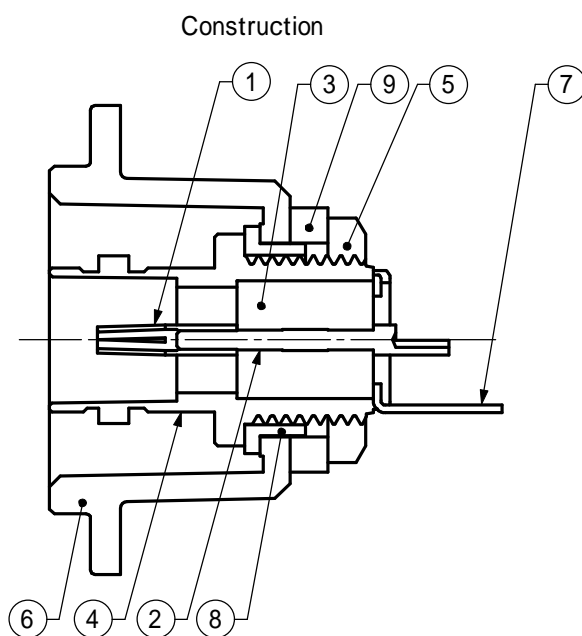
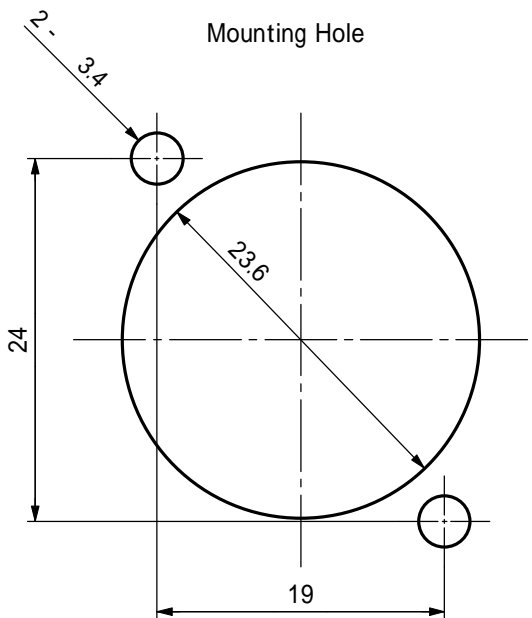
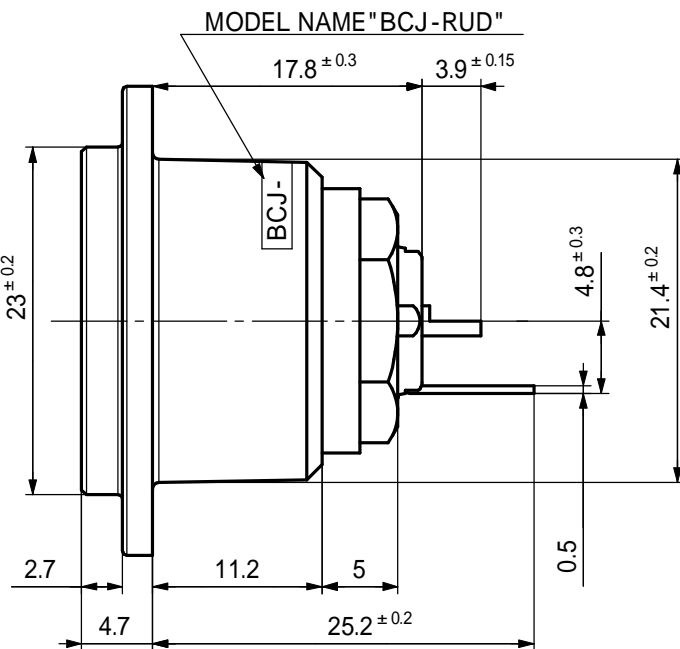
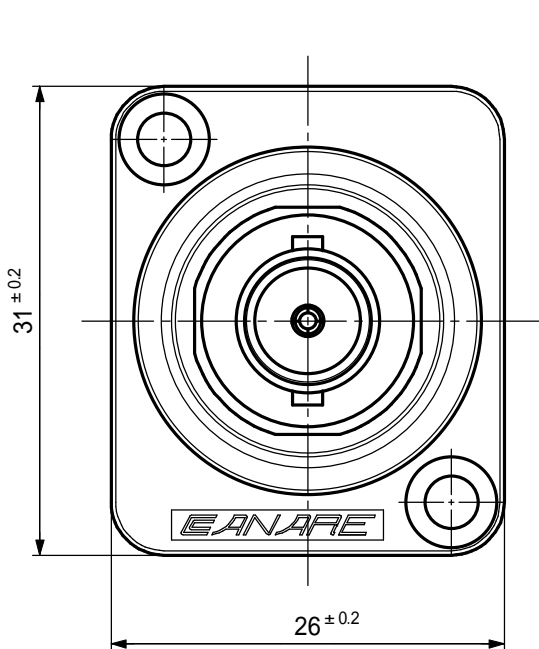
6.2 To load connectors without using nuts, panel need to have holes for screws with M3 size thread.

Chamfer the front part of holes for proper fitting of screws. Important to consider a space for a portion of incomplete thread on screws. See **Fig. 4**

Fig. 2 (FRONT-loading connector) **Fig. 3** (REAR-loading connector) **Fig. 4** (To load connectors without using nuts)



External Appearance



9	Insulation Washer	1	ABS(White)	-
8	Insulation Bushing	1	ABS(White)	-
7	Earth Lug	1	Brass	Su-Cu Plating
6	Mouting Nut	1	Brass	Nickel Plating
5	Flange	1	Aluminium Alloy Die Casting	Nickel Plating
4	Body	1	Brass	Nickel Plating
3	Insulator	1	PTFE	-
2	Center Contact	1	Brass	Gold Plating
1	Female Center Contact	1	Beryllium Copper	Gold Plating
No.	Name of Parts	Pc(s).	Material	Finish
Title	75 BNC RECESSED BULKHEAD RECEPTACLE	PJTN	Unit Sc. Tol. Date Ver. 1.0	Model No.
			mm 2:1 ± 0.1 2004-09-15	BCJ-RUD BL324

PRODUCT SPECIFICATIONS

(BCJ-RUDB)

SAB325

Ver. 1.1

CANARE ELECTRIC CO., LTD

BNC receptacle.

1. Scope This product specification covers the performance of CANARE 75**2. General Specifications**

- (1) **Product name** 75 BNC recessed bulkhead receptacle
 (2) **Model name** BCJ-RUDB
 (3) **Applicable standard** JIS* C 5412
 (4) **Nominal impedance** 75 unbalanced
 (5) **Construction** As shown in the drawing (BL325).
 (6) **Weight** Approx 17.6g
 (7) **Designation** Stamp model name (BCJ-RUDB) and brand name (CANARE) on flange.
 (8) **Packaging** 20pcs/package (158 x 132 x 40mm)
 *Japanese Industrial Standard

3. Rating

- (1) **Operating temperature** -20 ~ +85
 (2) **Operating humidity** ~ 90%

4. Characteristics**4.1 Electrical characteristics** As shown in **Table 1****Table 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.	1500V a.c. shall be applied for 1 min between 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	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 abnormality	The receptacle and applicable plug shall be engaged.
Female contact retention force	1.5 ~ 3.9N	Following JIS C 5412 pin gauge (Fig.1) shall be inserted the female contact and measurement shall be made.
Fixing force of contact with lock mechanism	No displacement more than 0.5 mm.	Tensile strength of 19.6N shall be applied to the axial direction.
Strength of coupling mechanism	Body shall not be disconnected or no deformation shall be made.	The plug and a receptacle shall be engaged, after which tensile strength of 250N and rotation strength of 2.5N·m shall be applied.
Attachment strength	There shall be no break or damage on each part of connector.	The receptacle shall be attached on the chassis and tensile strength of 200N shall be applied to the axial direction.
Mechanical operation (repeated)	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.

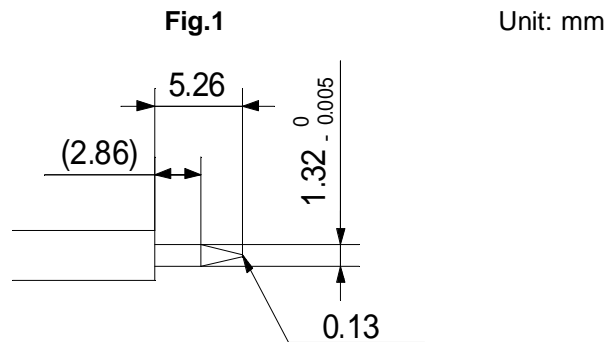
4.3 Environmental characteristics As shown in **Table 3**

Table 3

Items	Specified values	Test methods
Corrosion resistance (Salt mist)	Contact resistance: 50m or less Appearance: By visual inspection, without noticeable rust.	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).



6. Loading procedure: The connectors shall be loaded as follows. Refer to the drawing (BL322) for the panel hole dimensions.

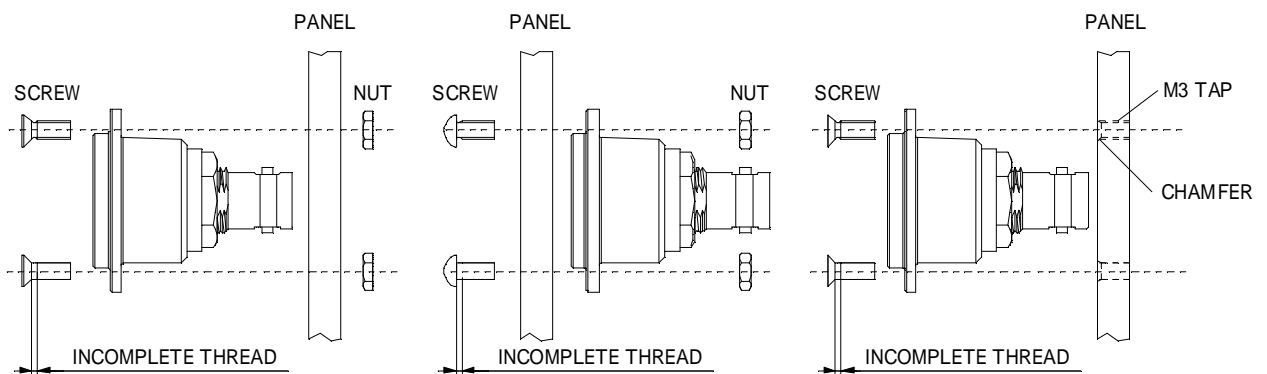
6.1 To load connectors with screws and nuts in a through hole panel, use M3 size screws and nuts.

See **Fig. 2** for FRONT-loading connector and **Fig. 3** for REAR-loading connector.

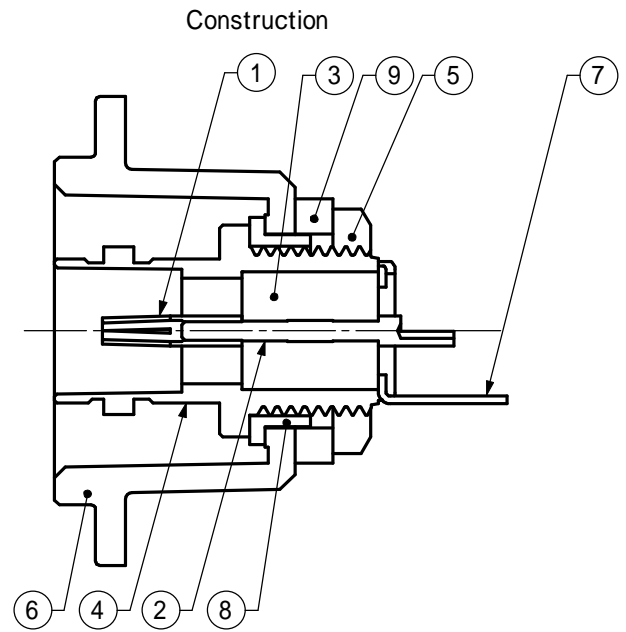
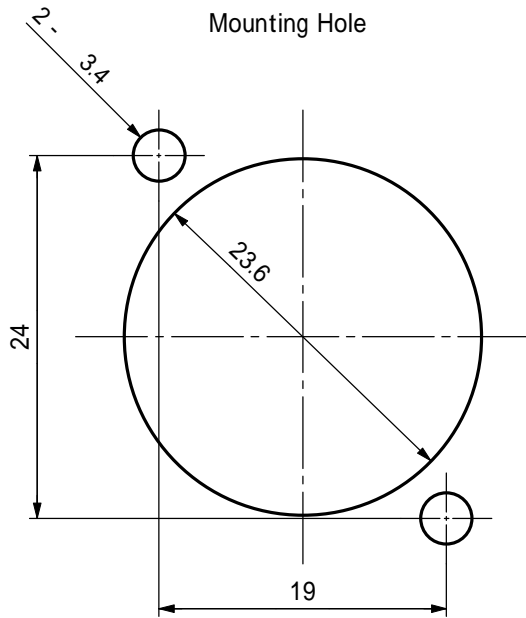
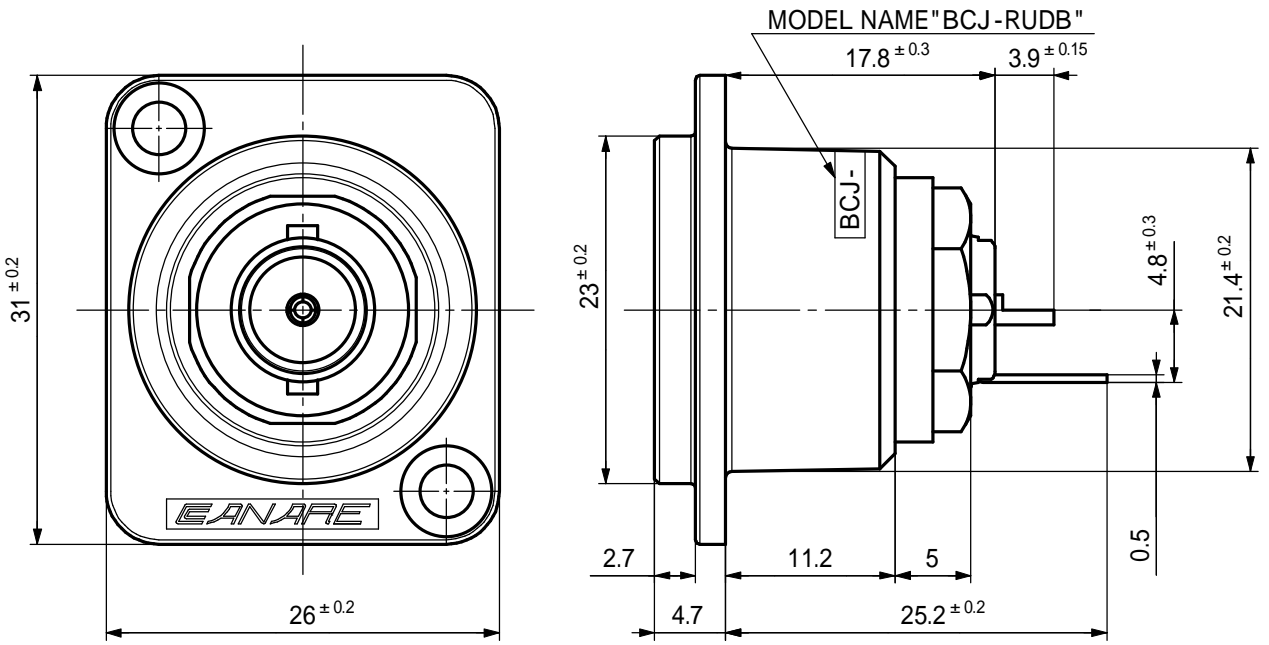
6.2 To load connectors without using nuts, panel need to have holes for screws with M3 size thread.

Chamfer the front part of holes for proper fitting of screws. Important to consider a space for a portion of incomplete thread on screws. See **Fig. 4**

Fig. 2 (FRONT-loading connector) **Fig. 3** (REAR-loading connector) **Fig. 4** (To load connectors without using nuts)



External Appearance



9	Insulation Washer	1	ABS(White)	-					
8	Insulation Bushing	1	ABS(White)	-					
7	Earth Lug	1	Brass	Su-Cu Plating					
6	Mouting Nut	1	Brass	Nickel Plating					
5	Flange	1	Aluminium Alloy Die Casting	Black Chrome Plating					
4	Body	1	Brass	Nickel Plating					
3	Insulator	1	PTFE	-					
2	Center Contact	1	Brass	Gold Plating					
1	Female Center Contact	1	Beryllium Copper	Gold Plating					
No.	Name of Parts	Pc(s).	Material	Finish					
Title	75 BNC RECESSED BULKHEAD RECEPTACLE	PJTN	Unit mm	Sc. 2:1	Tol. ± 0.1	Date 2004-09-15	Ver. 1.0	Model BCJ-RUDB	No. BL325

PRODUCT SPECIFICATIONS

(BCJ-FC1)

SAB091A

Ver. 1.1

CANARE ELECTRIC CO., LTD
BNC panel jack.

1. **Scope** This product specification covers the performance of CANARE 75

2. General Specifications

- (1) **Product name** 75 BNC panel jack
 (2) **Model name** BCJ-FC1
 (3) **Applicable standard** JIS* C 5412
 (4) **Nominal impedance** 75 unbalanced
 (5) **Construction** As shown in the drawing (BL091).
 (6) **Weight** Approx 12.8g
 (including mounting nut, washer, crimp sleeve and heat shrinkable tube)
 (7) **Designation** Stamp model name (BCJ-FC1) and brand name (CANARE) on the body.
 (8) **Packaging** 20pcs/package (158 x 132 x 40mm), 100pcs/package (210 x 167 x 143mm)
 (9) **Applicable cable** 1.5C-2V(JIS C 3501)
 (10) **Crimp tool** Frame: TC-1, Die: TCD-1D,TCD-1DA,TCD-1DB
 Center contact is solder type.
 *Japanese Industrial Standard

3. Rating

- (1) **Operating temperature** -40 ~ +120
 (2) **Operating humidity** ~ 90%

4. Characteristics

4.1 Electrical characteristics As shown in Table 1

Table 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.	1500V a.c. shall be applied for 1 min between 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	An applied cable shall be attached to the jack, then terminating with 75 . The measuring 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 abnormality	The receptacle and applicable plug shall be engaged.
Female contact retention force	1.5 ~ 3.9N	Following JIS C 5412 pin gauge (Fig.) shall be inserted the female contact and measurement shall be made.
Fixing force of contact with lock mechanism	No displacement more than 0.5mm.	Tensile strength of 19.6N shall be applied to the axial direction.
Strength of coupling mechanism	Body shall not be disconnected or no deformation shall be made.	The plug and a receptacle shall be engaged, after which tensile strength of 245N and rotation strength of 2.45N·m shall be applied.
Cable connecting force	45N or more for 1.5C-2V	An applied cable shall be attached to the jack, after which tensile strength shall be applied.
Mechanical operation (repeated)	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.

4.3 Environmental characteristics As shown in Table 3

Table 3

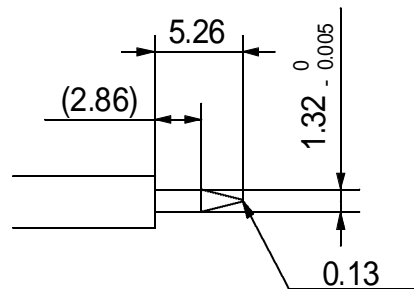
Items	Specified values	Test methods
Corrosion resistance (Salt mist)	Contact resistance: 50m or less Appearance: By visual inspection, without noticeable rust.	The connector shall be subjected continuously to a fine mist of salt solution at a temperature of 35 ± 2 for 48h (Salt solution concentration: $5\pm 1\%$ 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.

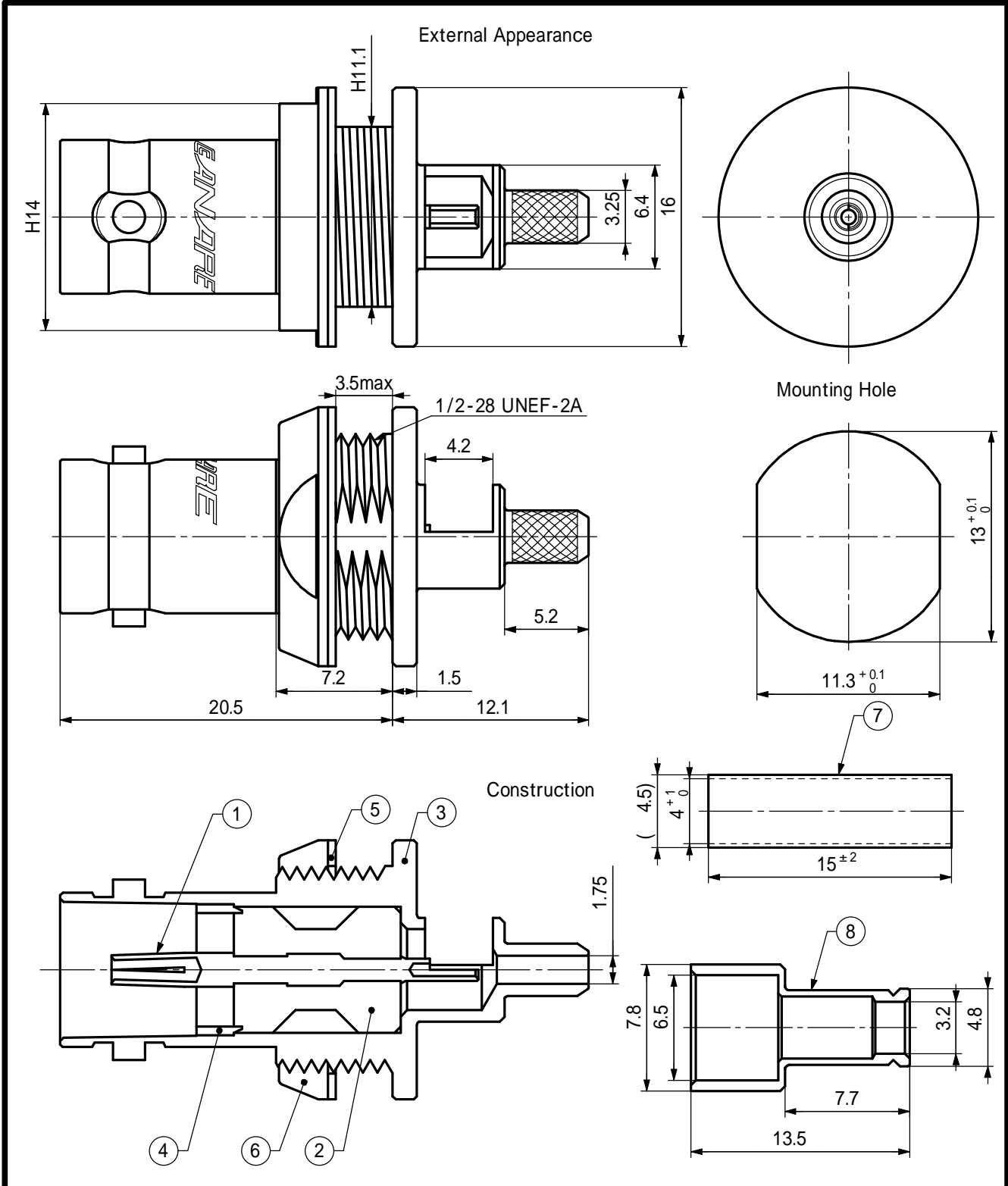
5. Measurement conditions

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).

Fig.

Unit: mm





8	Crimping Sleeve	1	Brass	Tin Plating
7	Heat Shrinkable Tube	1	Polyolefin(BLACK)	-
6	Mounting Nut	1	Brass(t3)	Nickel Plating
5	Washer	1	Brass(t0.5)	Nickel Plating
4	Body2	1	Brass	Nickel Plating
3	Body1	1	Brass	Nickel Plating
2	Insulator	1	PTFE	-
1	Female Center Contact	1	Beryllium Copper	Gold Plating

No.	Name of Parts	Pc(s).	Material				Finish		
Title	75 BNC PANEL JACK	PJTN	Unit	Sc.	Tol.	Date	Ver. 1.0	Model	No.
			mm	2 2:1	±0.1	1995-10-04		BCJ-FC1	BL091

PRODUCT SPECIFICATIONS

(BCJ-FC1-7/16)

SAB092A

Ver. 1.1

CANARE ELECTRIC CO., LTD

BNC panel jack.

1. **Scope** This product specification covers the performance of CANARE 75**2. General Specifications**

- (1) **Product name** 75 BNC panel jack
 (2) **Model name** BCJ-FC1-7/16
 (3) **Applicable standard** JIS* C 5412
 (4) **Nominal impedance** 75 unbalanced
 (5) **Construction** As shown in the drawing (BL092).
 (6) **Weight** Approx 10.8g
 (including mounting nut, locked washer, washer, crimp sleeve and heat shrinkable tube)
 (7) **Designation** Stamp model name (BCJ-FC1-7/16) and brand name (CANARE) on the body.
 (8) **Packaging** 20pcs/package (158 x 132 x 40mm), 100pcs/package (210 x 167 x 143mm)
 (9) **Applicable cable** 1.5C-2V(JIS C 3501)
 (10) **Crimp tool** Frame: TC-1, Die: TCD-1D,TCD-1DA,TCD-1DB
 Center contact is solder type.
 *Japanese Industrial Standard

3. Rating

- (1) **Operating temperature** -40 ~ +100
 (2) **Operating humidity** ~ 90%

4. Characteristics**4.1 Electrical characteristics** As shown in **Table 1****Table 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.	1500V a.c. shall be applied for 1 min between the contacts. Trip current :0.5mA.
Contact resistance	Between external contacts: 3m or less Between center contacts: 6m 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	An applied cable shall be attached to the jack, then terminating with 75 . The measuring 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 abnormality	The receptacle and applicable plug shall be engaged.
Female contact retention force	1.5 ~ 3.9N	Following JIS C 5412 pin gauge (Fig.) shall be inserted the female contact and measurement shall be made.
Fixing force of contact with lock mechanism	No displacement more than 0.5 mm.	Tensile strength of 19.6N shall be applied to the axial direction.
Strength of coupling mechanism	Body shall not be disconnected or no deformation shall be made.	The plug and a receptacle shall be engaged, after which tensile strength of 245N and rotation strength of 2.45N·m shall be applied.
Cable connecting force	45N or more for 1.5C-2V	An applied cable shall be attached to the jack, after which tensile strength shall be applied.
Mechanical operation (repeated)	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.

4.3 Environmental characteristics As shown in Table 3

Table 3

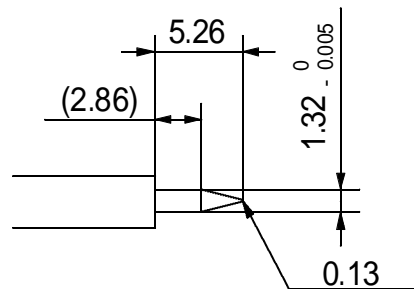
Items	Specified values	Test methods
Corrosion resistance (Salt mist)	Contact resistance: 50m or less Appearance: By visual inspection, without noticeable rust.	The connector shall be subjected continuously to a fine mist of salt solution at a temperature of 35 ± 2 for 48h (Salt solution concentration: $5\pm 1\%$ 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

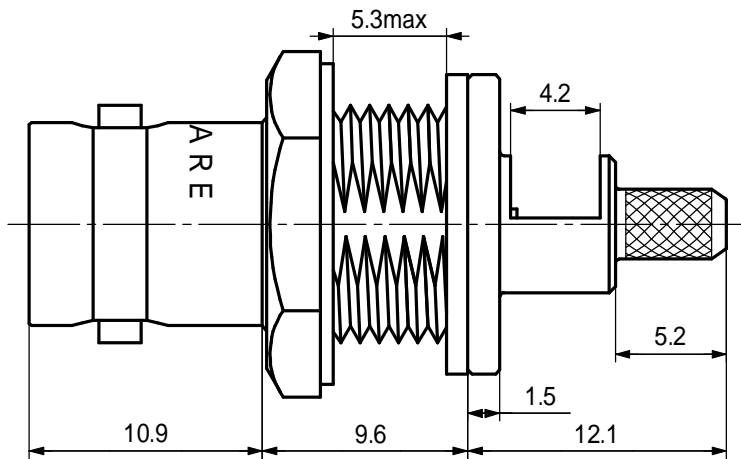
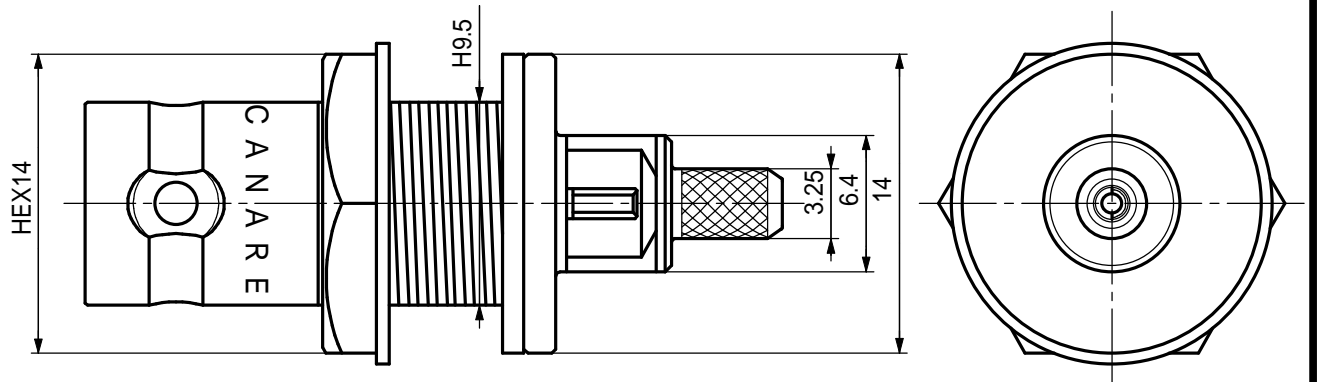
Unless otherwise specified, the standard range of atmospheric conditions for making measurements and tests are as follows: Ambient temperature (15 to 35), Relative humidity (25% to 75%), Air pressure (86kPa to 106kPa). If there is any doubt about the results, measurements shall be made within the following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

Fig.

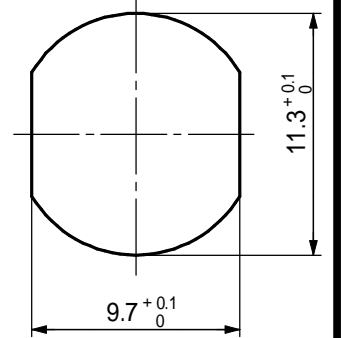
Unit: mm



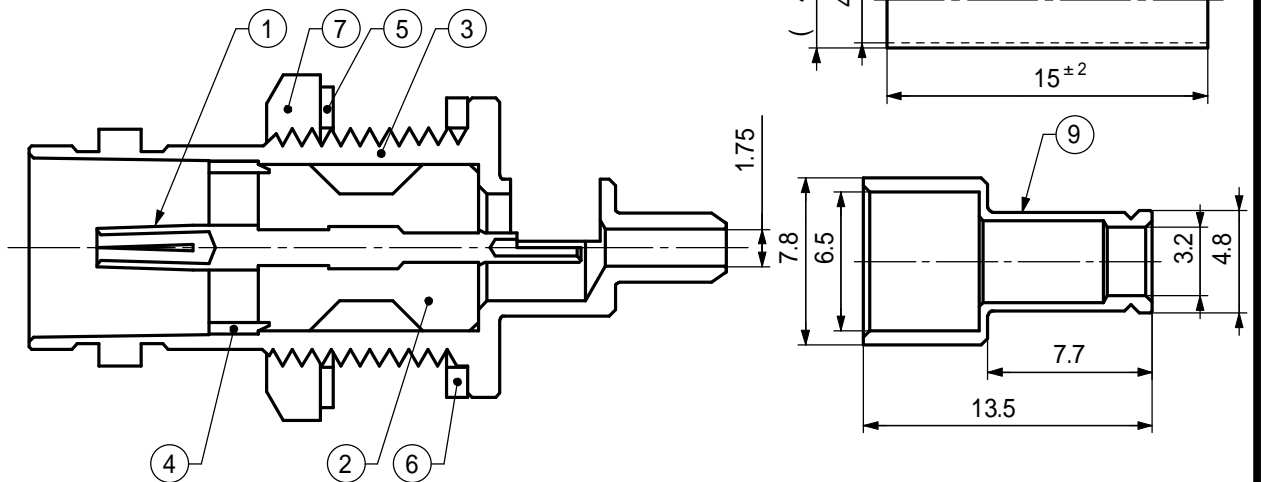
External Appearance



Mounting Hole



Construction



9	Crimping Sleeve	1	Brass	Tin Plating
8	Heat Shrinkable Tube	1	Polyolefin(BLACK)	-
7	Mounting Nut	1	Brass(t2.5)	Nickel Plating
6	Washer	1	Brass(t1)	Nickel Plating
5	Locked Washer	1	Phospher Bronze(t0.6)	Nickel Plating
4	Body2	1	Brass	Nickel Plating
3	Body1	1	Brass	Nickel Plating
2	Insulator	1	PTFE	-
1	Female Center Contact	1	Beryllium Copper	Gold Plating

No.	Name of Parts	Pc(s).	Material				Finish		
Title	75 BNC	PJTN	Unit	Sc.	Tol.	Date	Ver. 1.0	Model	No.
	PANEL JACK		mm	2 2:1	± 0.1	1995-10-02		BCJ-FC1-7/16	BL092

PRODUCT SPECIFICATIONS

(BCJ-RUC1)

SAB093A

Ver. 1.1

CANARE ELECTRIC CO., LTD

BNC panel jack.

1. **Scope** This product specification covers the performance of CANARE 752. **General Specifications**

- (1) **Product name** 75 BNC panel jack
 (2) **Model name** BCJ-RUC1
 (3) **Applicable standard** JIS* C 5412
 (4) **Nominal impedance** 75 unbalanced
 (5) **Construction** As shown in the drawing (BL093).
 (6) **Weight** Approx 14g (including crimp Sleeve and heat Shrinkable tube)
 (7) **Designation** Stamp model name (BCJ-RUC1) and brand name (CANARE) on flange.
 (8) **Packaging** 20pcs/package (158 x 132 x 40mm), 100pcs/package (210 x 167 x 143mm)
 (9) **Applicable cable** 1.5C-2V(JIS C 3501)
 (10) **Crimp tool** Frame: TC-1, Die: TCD-1D,TCD-1DA,TCD-1DB
 Center contact is solder type.
 *Japanese Industrial Standard

3. **Rating**(1) **Operating temperature** -40 ~ +120(2) **Operating humidity** ~ 90%4. **Characteristics**4.1 **Electrical characteristics** As shown in **Table 1****Table 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.	1500V a.c. shall be applied for 1 min between the contacts. Trip current :0.5mA.
Contact resistance	Between external contacts: 3m or less Between center contacts: 6m 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	An applied cable shall be attached to the jack, then terminating with 75 . The measuring 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 abnormality	The receptacle and applicable plug shall be engaged.
Female contact retention force	1.5 ~ 3.9N	Following JIS C 5412 pin gauge (Fig.) shall be inserted the female contact and measurement shall be made.
Fixing force of contact with lock mechanism	No displacement more than 0.5 mm.	Tensile strength of 19.6N shall be applied to the axial direction.
Strength of coupling mechanism	Body shall not be disconnected or no deformation shall be made.	The plug and a receptacle shall be engaged, after which tensile strength of 245N and rotation strength of 2.45N·m shall be applied.
Cable connecting force	45N or more for 1.5C-2V	An applied cable shall be attached to the jack, after which tensile strength shall be applied.
Mechanical operation (repeated)	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.

4.3 Environmental characteristics As shown in Table 3

Table 3

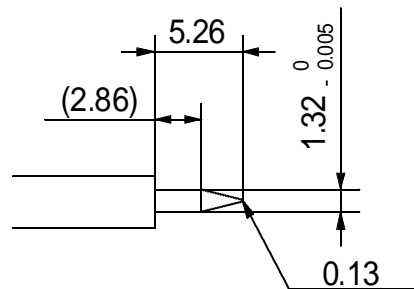
Items	Specified values	Test methods
Corrosion resistance (Salt mist)	Contact resistance: 50m or less Appearance: By visual inspection, without noticeable rust.	The connector shall be subjected continuously to a fine mist of salt solution at a temperature of 35 ± 2 for 48h (Salt solution concentration: $5\pm 1\%$ 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

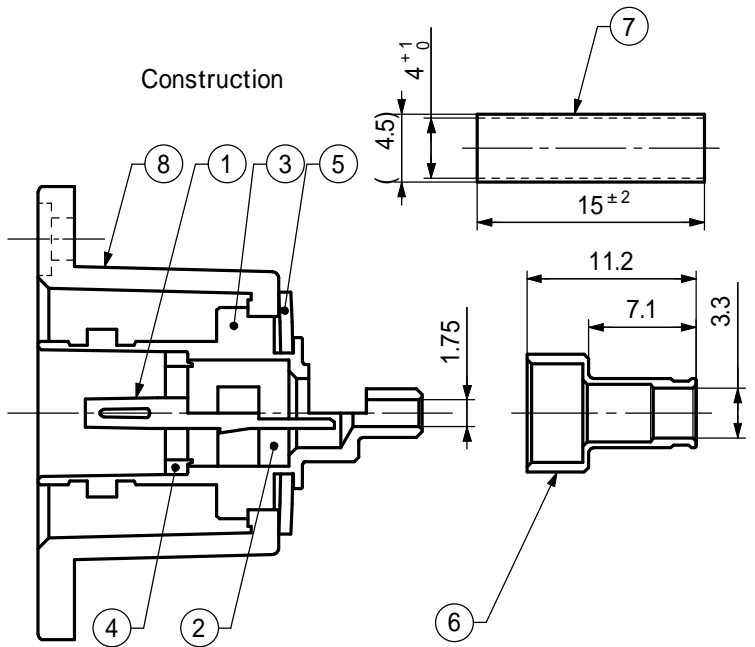
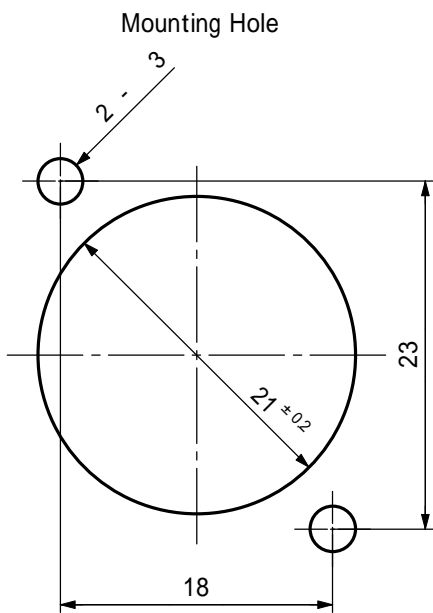
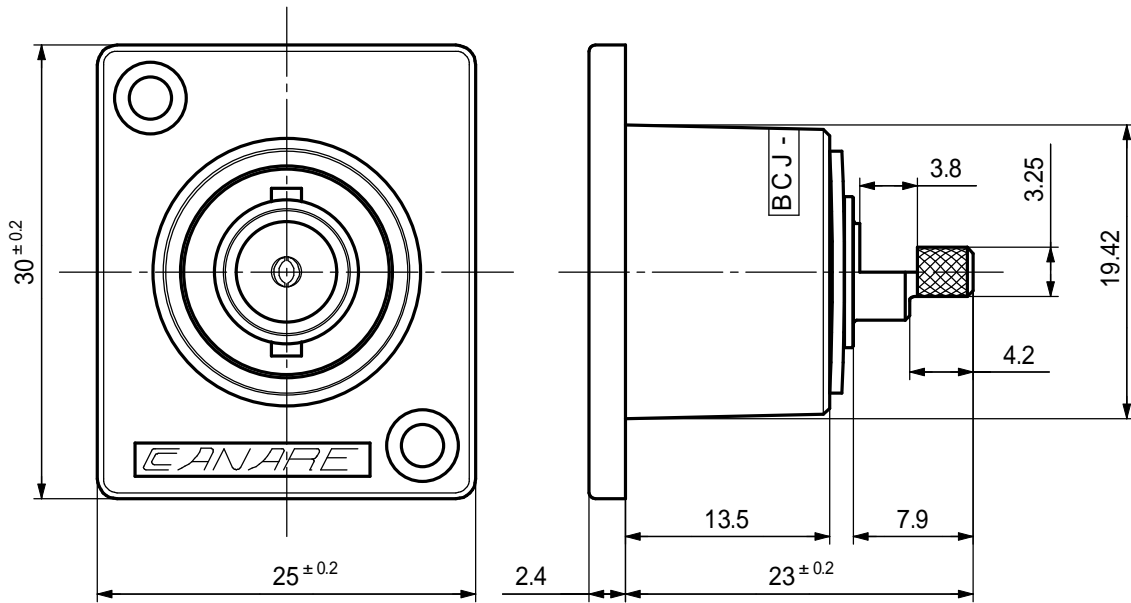
Unless otherwise specified, the standard range of atmospheric conditions for making measurements and tests are as follows: Ambient temperature (15 to 35), Relative humidity (25% to 75%), Air pressure (86kPa to 106kPa). If there is any doubt about the results, measurements shall be made within the following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

Fig.

Unit: mm



External Appearance



8	Flange	1	Aluminium Alloy Die Casting	Nickel Plating					
7	Heat Shrinkable Tube	1	Polyolefin(BLACK)	-					
6	Crimping Sleeve	1	Brass	Tin Plating					
5	Bowed E Ring	1	Steel	Nickel Plating					
4	Body2	1	Brass	Nickel Plating					
3	Body1	1	Brass	Nickel Plating					
2	Insulator	1	m-PPO	-					
1	Female Center Contact	1	Beryllium Copper	Gold Plating					
No.	Name of Parts	Pc(s).	Material	Finish					
Title	75 BNC PANEL JACK	PJTN 	Unit mm	Sc. 2:1	Tol. ± 0.1	Date 1995-10-09	Ver. 1.0	Model BCJ-RUC1	No. BL093

PRODUCT SPECIFICATIONS

(BCJ-JRUD)

SAB322

Ver. 1.1

CANARE ELECTRIC CO., LTD

BNC receptacle.

1. Scope This product specification covers the performance of CANARE 75**2. General Specifications**

- (1) **Product name** 75 BNC recessed bulkhead receptacle
 (2) **Model name** BCJ-JRUD
 (3) **Applicable standard** JIS* C 5412
 (4) **Nominal impedance** 75 unbalanced
 (5) **Construction** As shown in the drawing (BL322).
 (6) **Weight** Approx 19.6g
 (7) **Designation** Stamp model name (BCJ-JRUD) and brand name (CANARE) on flange.
 (8) **Packaging** 20pcs/package (158 x 132 x 40mm)
 *Japanese Industrial Standard

3. Rating

- (1) **Operating temperature** -20 ~ +85
 (2) **Operating humidity** ~ 90%

4. Characteristics**4.1 Electrical characteristics** As shown in **Table 1****Table 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.	1500V a.c. shall be applied for 1 min between 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	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 abnormality	The receptacle and applicable plug shall be engaged.
Female contact retention force	1.5 ~ 3.9N	Following JIS C 5412 pin gauge (Fig.1) shall be inserted the female contact and measurement shall be made.
Fixing force of contact with lock mechanism	No displacement more than 0.5 mm.	Tensile strength of 19.6N shall be applied to the axial direction.
Strength of coupling mechanism	Body shall not be disconnected or no deformation shall be made.	The plug and a receptacle shall be engaged, after which tensile strength of 250N and rotation strength of 2.5N·m shall be applied.
Attachment strength	There shall be no break or damage on each part of connector.	The receptacle shall be attached on the chassis and tensile strength of 200N shall be applied to the axial direction.
Mechanical operation (repeated)	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.

4.3 Environmental characteristics As shown in Table 3

Table 3

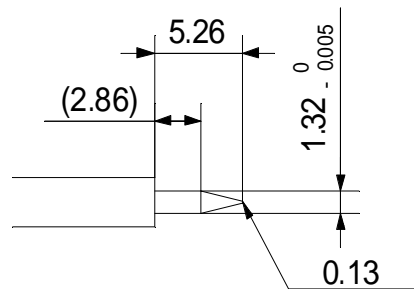
Items	Specified values	Test methods
Corrosion resistance (Salt mist)	Contact resistance: 50m or less Appearance: By visual inspection, without noticeable rust.	The connector shall be subjected continuously to a fine mist of salt solution at a temperature of 35 ± 2 for 48h (Salt solution concentration: $5 \pm 1\%$ 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).

Fig.1

Unit: mm



6. Loading procedure: The connectors shall be loaded as follows. Refer to the drawing (BL322) for the panel hole dimensions.

6.1 To load connectors with screws and nuts in a through hole panel, use M3 size screws and nuts.

See Fig. 2 for FRONT-loading connector and Fig. 3 for REAR-loading connector.

6.2 To load connectors without using nuts, panel need to have holes for screws with M3 size thread.

Chamfer the front part of holes for proper fitting of screws. Important to consider a space for a portion of incomplete thread on screws. See Fig. 4

Fig. 2

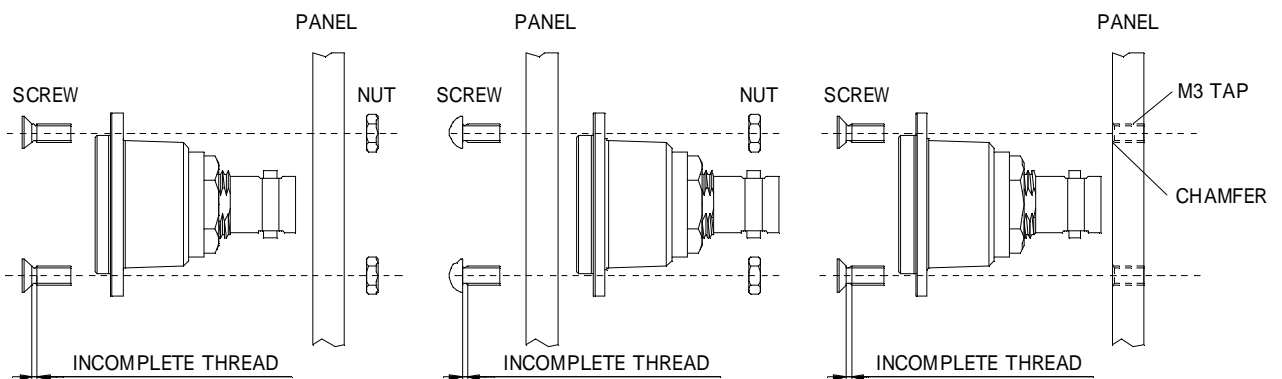
(FRONT-loading connector)

Fig. 3

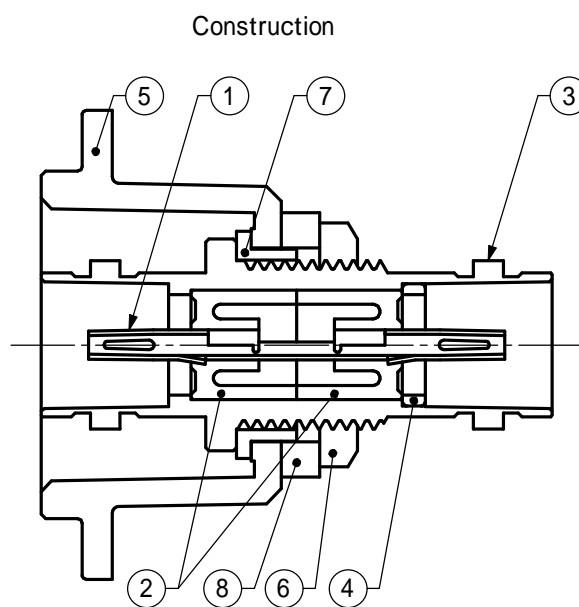
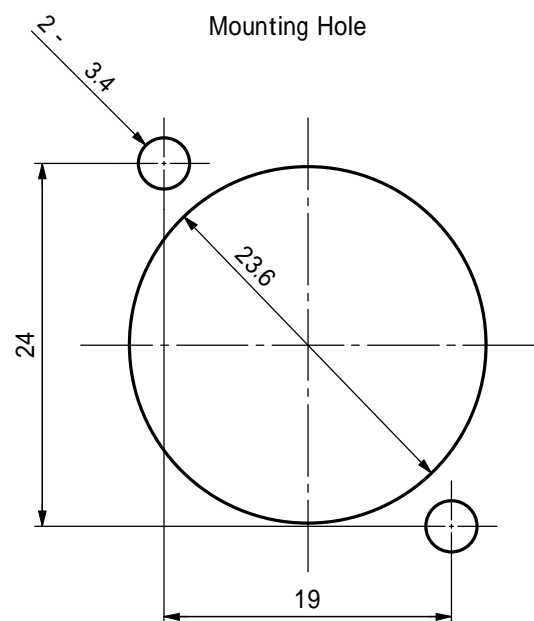
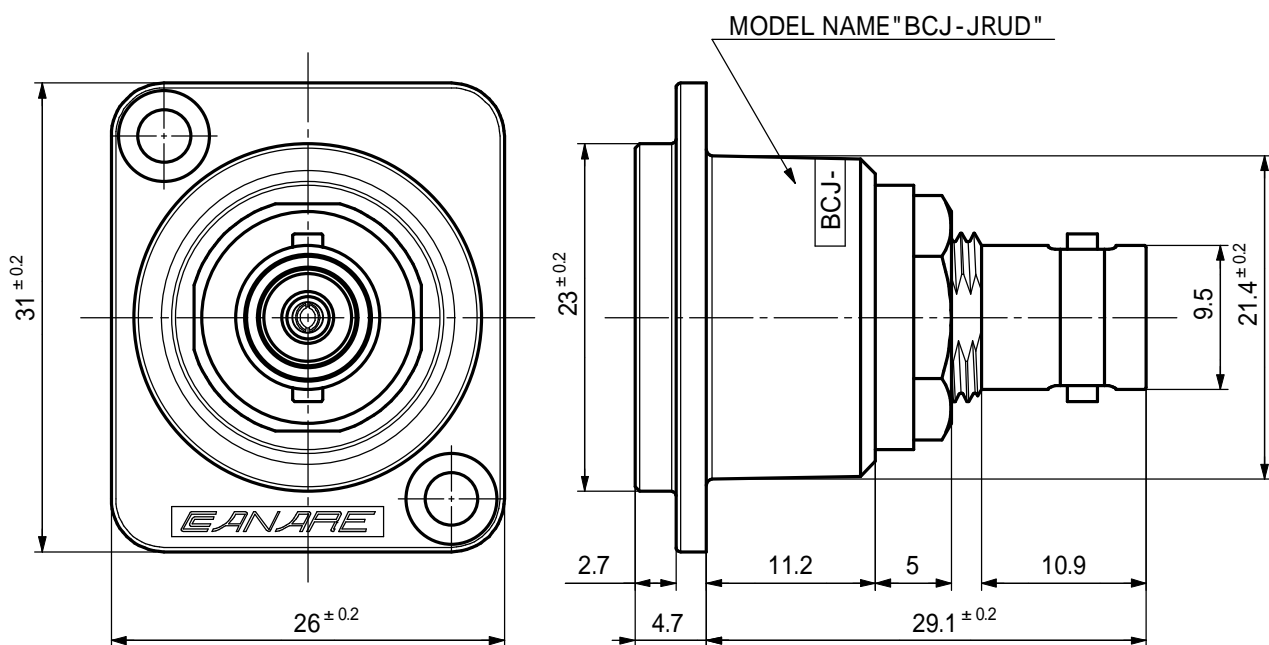
(REAR-loading connector)

Fig. 4

(To load connectors without using nuts)



External Appearance



8	Insulation Washer	1	ABS(White)	-
7	Insulation Bushing	1	ABS(White)	-
6	Mounting Nut	1	Brass	Nickel Plating
5	Flange	1	Aluminium Alloy Die Casting	Nickel Plating
4	Body2	1	Brass	Nickel Plating
3	Body	1	Brass	Nickel Plating
2	Insulator	1	Amorphous Polyolefin	-
1	Female Center Contact	1	Beryllium Copper	Gold Plating
No.	Name of Parts	Pc(s).	Material	Finish
Title	75 BNC RECESSED BULKHEAD RECEPTACLE	PJTN	Unit Sc. Tol. Date Ver. 1.0	Model No.
			mm 2:1 ± 0.1 2004-09-15	BCJ-JRUD BL322

PRODUCT SPECIFICATIONS

(BCJ-RUC1)

SAB093A

Ver. 1.1

CANARE ELECTRIC CO., LTD

BNC panel jack.

1. Scope This product specification covers the performance of CANARE 75**2. General Specifications**

- (1) **Product name** 75 BNC panel jack
 (2) **Model name** BCJ-RUC1
 (3) **Applicable standard** JIS* C 5412
 (4) **Nominal impedance** 75 unbalanced
 (5) **Construction** As shown in the drawing (BL093).
 (6) **Weight** Approx 14g (including crimp Sleeve and heat Shrinkable tube)
 (7) **Designation** Stamp model name (BCJ-RUC1) and brand name (CANARE) on flange.
 (8) **Packaging** 20pcs/package (158 x 132 x 40mm), 100pcs/package (210 x 167 x 143mm)
 (9) **Applicable cable** 1.5C-2V(JIS C 3501)
 (10) **Crimp tool** Frame: TC-1, Die: TCD-1D,TCD-1DA,TCD-1DB
 Center contact is solder type.
 *Japanese Industrial Standard

3. Rating(1) **Operating temperature** -40 ~ +120(2) **Operating humidity** ~ 90%**4. Characteristics****4.1 Electrical characteristics** As shown in **Table 1****Table 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.	1500V a.c. shall be applied for 1 min between the contacts. Trip current :0.5mA.
Contact resistance	Between external contacts: 3m or less Between center contacts: 6m 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	An applied cable shall be attached to the jack, then terminating with 75 . The measuring 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 abnormality	The receptacle and applicable plug shall be engaged.
Female contact retention force	1.5 ~ 3.9N	Following JIS C 5412 pin gauge (Fig.) shall be inserted the female contact and measurement shall be made.
Fixing force of contact with lock mechanism	No displacement more than 0.5 mm.	Tensile strength of 19.6N shall be applied to the axial direction.
Strength of coupling mechanism	Body shall not be disconnected or no deformation shall be made.	The plug and a receptacle shall be engaged, after which tensile strength of 245N and rotation strength of 2.45N·m shall be applied.
Cable connecting force	45N or more for 1.5C-2V	An applied cable shall be attached to the jack, after which tensile strength shall be applied.
Mechanical operation (repeated)	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.

4.3 Environmental characteristics As shown in Table 3

Table 3

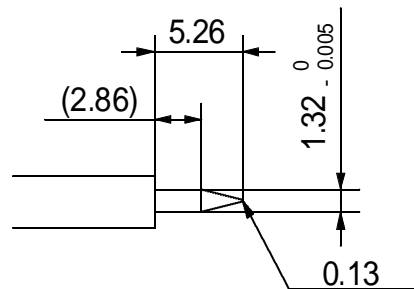
Items	Specified values	Test methods
Corrosion resistance (Salt mist)	Contact resistance: 50m or less Appearance: By visual inspection, without noticeable rust.	The connector shall be subjected continuously to a fine mist of salt solution at a temperature of 35 ± 2 for 48h (Salt solution concentration: $5\pm 1\%$ 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

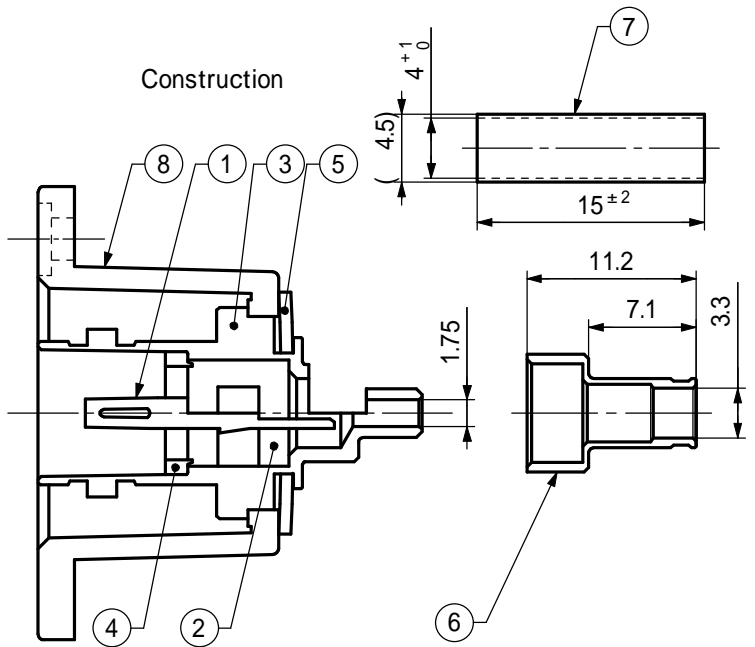
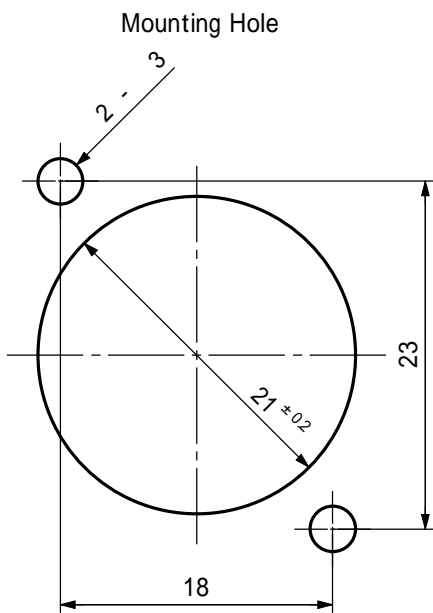
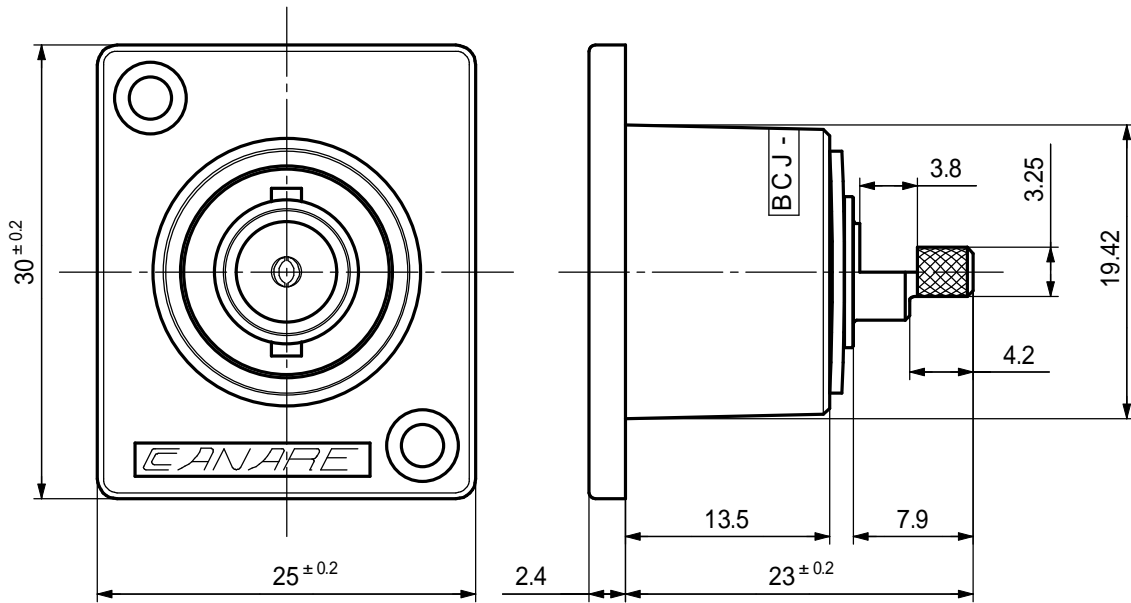
Unless otherwise specified, the standard range of atmospheric conditions for making measurements and tests are as follows: Ambient temperature (15 to 35), Relative humidity (25% to 75%), Air pressure (86kPa to 106kPa). If there is any doubt about the results, measurements shall be made within the following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

Fig.

Unit: mm



External Appearance



8	Flange	1	Aluminium Alloy Die Casting	Nickel Plating					
7	Heat Shrinkable Tube	1	Polyolefin(BLACK)	-					
6	Crimping Sleeve	1	Brass	Tin Plating					
5	Bowed E Ring	1	Steel	Nickel Plating					
4	Body2	1	Brass	Nickel Plating					
3	Body1	1	Brass	Nickel Plating					
2	Insulator	1	m-PPO	-					
1	Female Center Contact	1	Beryllium Copper	Gold Plating					
No.	Name of Parts	Pc(s).	Material	Finish					
Title	75 BNC PANEL JACK	PJTN 	Unit mm	Sc. 2:1	Tol. ± 0.1	Date 1995-10-09	Ver. 1.0	Model BCJ-RUC1	No. BL093