PRODUCT SPECIFICATIONS

(BCJ-JRUD)

Ver. 1.1 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-JRUD
 - (3) Applicable standard JIS* C 5412
 - (4) Nominal impedance 75 Ω 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 $-20~^\circ\mathrm{C}~\sim$ +85 $^\circ\mathrm{C}$
 - (2) Operating humidity $\sim 90\%$
- 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	1500V a.c. shall be applied for 1 min between	
	breakdown etc.	the contacts. Trip current :0.5mA.	
Contact resistance	Between center contacts:	Measurement shall be made between the	
	6 m Ω or less	contacts, with engaging a plug and a receptacle.	
	Between external contacts:	(1kHz:1mA a.c.)	
	$3 \text{m} \Omega$ or less		
Voltage standing	1.1 or less	Terminated with 75 Ω .	
wave ratio(V.S.W.R)		The measurement frequency up to 2GHz.	

4.2 Mechanical characteristics As shown in Table 2

Table 2			
Items	Specified values	Test methods	
Intermatability	To be engaged without any	The receptacle and applicable plug shall be	
	abnormality	engaged.	
Female contact	1.5 ~ 3.9N	Following JIS C 5412 pin gauge (Fig.1) shall be	
retention force		inserted the female contact and measurement	
		shall be made.	
Fixing force of	No displacement more than 0.5 mm.	Tensile strength of 19.6N shall be applied to the	
contact with lock		axial direction.	
mechanism			
Strength of coupling	Body shall not be disconnected or no	The plug and a receptacle shall be engaged,	
mechanism	deformation shall be made.	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	The receptacle shall be attached on the chassis	
	on each part of connector.	and tensile strength of 200N shall be applied to	
		the axial direction.	
Mechanical operation	Contact resistance: 10m Ω or less	The endurance test consists of repeated	
(repeated)		engagement and separation of connector pairs.	
		The number of operations shall be 5000 cycles.	

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

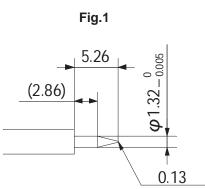
4.3 Environmental characteristics As shown in Table 3

5. Measurement conditions

Fig. 2

(FRONT-loading connector)

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).



Unit: mm

Fig. 4

(To load connectors without using nuts)

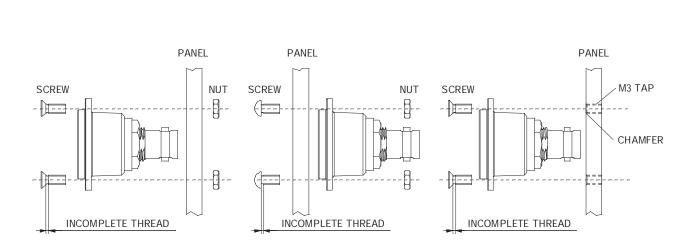
6. Loading procedure: The connectors shall be loaded as follows. Refer to the drawing (BL322) for the panel hole dimensions.

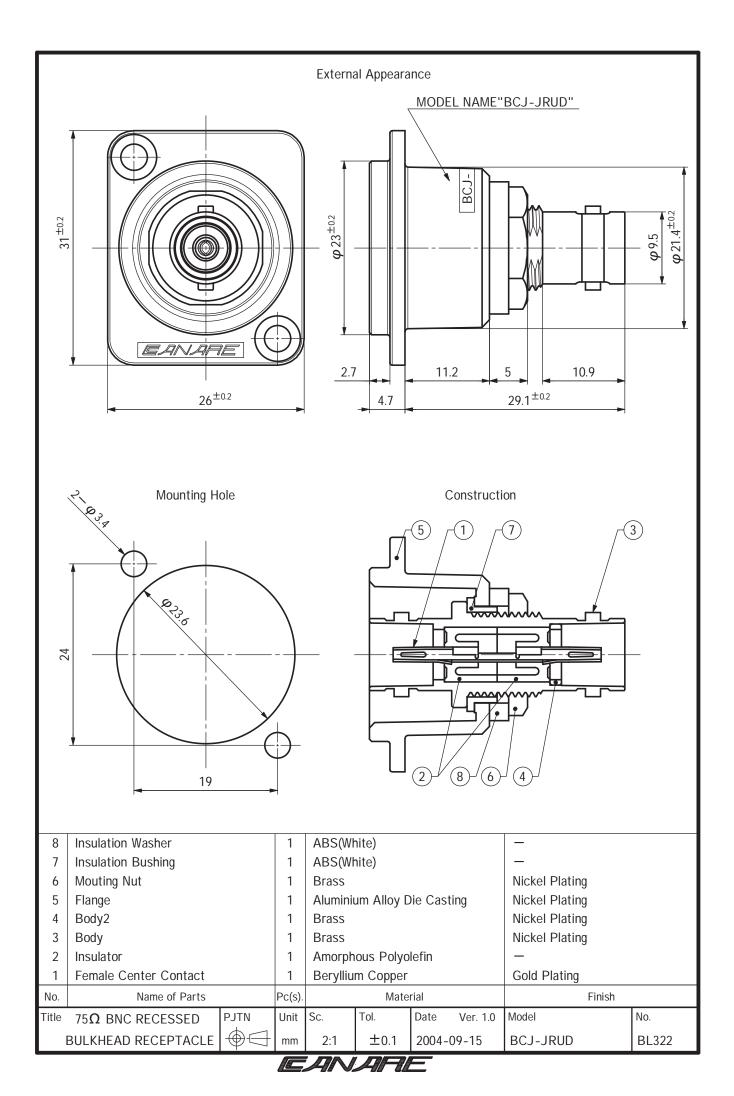
6.1 To load connectors with screws and nuts in a through hole panel, use M3 size screws and nuts. See **Fig. 2** for FRONT-loading connector and **Fig. 3** for REAR-loading connector.

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**

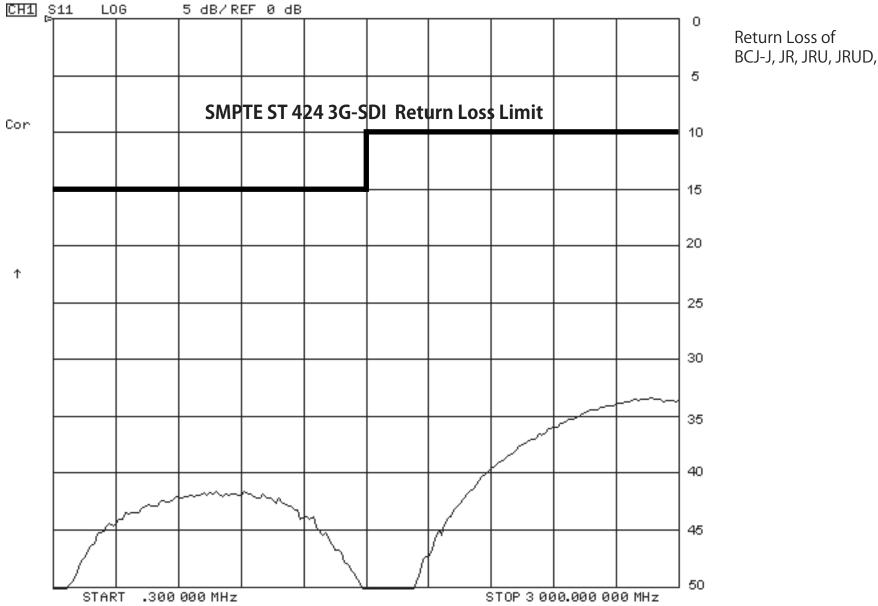
Fig. 3

(REAR-loading connector)





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BCJ-J, JR, JRU, JRUD, and JRUDB