PRODUCT SPECIFICATIONS

(BCP-B25HW)

Ver. 1.1 CANARE ELECTRIC CO., LTD

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

2. General specifications

(9) Applicable cable (10) Crimp tool

Crimp type 75 Ω BNC plug (1) Product name

BCP-B25HW

(2) Model name (3) Applicable standard IEC*1 61169-8, JIS*2 C 5412

(4) Nominal impedance 75 Ω unbalanced

(5) Construction As shown in the drawing (BL471).

(6) Weight

Approx 12.5g (including center contact and crimp sleeve)
Stamp model name (BCP-B25HW) on washer and brand name (CANARE) on (7) Designation

coupling sleeve.

(8) Packaging 100pcs/package (220 x 155 x 37mm), 20pcs/package (150 x 50 x 31mm),

40pcs/package (235 x 210 x 31mm) V4-2.5CHW, L-2.5CHWS (CANARE) Frame: TC-1, Die: TCD-35CA

3. Ratings

(1) Operating temperature -40 °C ~ +85 °C

~ 90% (2) Operating humidity

*1International Electrotechnical Commission

*2 Japanese Industrial Standard

4. Characteristics

4.1 Electrical characteristics As shown in Table 1

Table 1

Table I			
Items	Specified values	Test methods	
Insulation resistance	5000MΩ 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 external contacts:	Measurement shall be made between the	
	3 m Ω or less	contacts, with engaging a plug and a receptacle.	
	Between center contacts:	(1kHz:1mA a.c.)	
	6 m Ω or less	,	
Return loss	26.4dB or more	An applied cable shall be attached to the plug,	
Voltage standing	1.1 or less	then it shall be terminated with 75 Ω .	
wave ratio (V.S.W.R)		The measurement frequency up to 3GHz.	

4.2 Mechanical characteristics As shown in Table 2

I able 2			
Items	Specified values	Test methods	
Intermatability	To be engaged without any	The plug and an applicable receptacle shall be	
•	abnormality. abnormality.	engaged.	
Fixing force of	No displacement more than 0.5 mm.	Tensile strength of 19.6N shall be applied to the	
contact with lock	·	axial direction.	
mechanism			
Strength of coupling	Coupling sleeve shall not be	The plug and a receptacle shall be engaged,	
mechanism	disconnected or no deformation shall	after which tensile strength of 250N and rotation	
	be made.	strength of 2.5N·m shall be applied.	
Cable connecting	200N or more	An applied cable shall be attached to the plug,	
force		after which tensile strength shall be applied.	
Mechanical operation	Contact resistance: 10m Ω or less	The endurance test consists of repeated	
(repeated)		engagement and separation of connector pairs.	
		The measurement shall be made after 5000	
		cycles.	

4.3 Environmental characteristics As shown in Table 3

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

5. Measurement conditions Unless otherwise specified, the standard range of atmospheric conditions for making measurements and tests are as follows: Ambient temperature (15 °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).