PRODUCT SPECIFICATIONS

SAB550 Ver. 1.0

(BCP-A3AHD)

CANARE ELECTRIC CO., LTD

1. Scope This product specification covers the performance of CANARE crimp type 75 Ω BNC plug. 2. General specifications

(1) Product name Crimp type 75 Ω BNC plug BCP-A3AHD IEC*¹ 61169-8, JIS*² C 5412 (2) Model name (3) Applicable standard

(4) Nominal impedance 75 Ω unbalanced (5) Construction

As shown in the drawing (BL438).

Approx 12g (including center contact and crimp sleeve) (6) Weight (7) Designation Stamp model name (BCP-A3AHD) on washer and brand name (CANARE) on

coupling sleeve.

100pcs/package (220 x 155 x 37mm), 20pcs/package (150 x 50 x 31mm) L-3C-AHD (CANARE) Frame: TC-1, Die: TCD-35CA (8) Packaging

(9) Applicable cable

(10) Crimp tool

3. Ratings

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

(2) Operating humidity ~ 90%

*¹International Electrotechnical Commission

*2 Japanese Industrial Standard

4. Characteristics

4.1 Electrical characteristics As shown in Table 1

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		Table

Iaple 1				
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		
5 .	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(0 \sim 2GHz)	An applied cable shall be attached to the plug,		
	20.8dB or more(0 \sim 3GHz)	then it shall be terminated with 75 Ω .		
Voltage standing	1.1 or less(0 \sim 2GHz)	The measurement frequency up to 3GHz.		
	1.2 or less($0 \sim 3$ GHz $)$	1 7 1		

4.2 Mechanical characteristics As shown in Table 2

Table 2

Items	Specified values	Test methods
Intermatability	To be engaged without any	The plug and an applicable receptacle shall be
	abnormality.	engaged.
Fixing force of	No displacement more than 0.5 mm.	Tensile strength of 19.6N shall be applied to the
contact with lock	·	axial direction.
<u>mechanism</u>		
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	150N or more for L-3C-AHD	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

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Items	Specified values	Test methods		
Corrosion resistance (Salt mist)	without noticeable rust. Contact resistance: $50m\Omega$ or less	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).