

**PRODUCT SPECIFICATIONS**

(BCP-LD25HD)

CANARE ELECTRIC CO., LTD

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

- (1) **Product name** Crimp type 75 Ω BNC right angle plug  
 (2) **Model name** BCP-LD25HD  
 (3) **Applicable standard** JIS\* C 5412 (\*Japanese Industrial Standard) / IEC 169 - 8  
 (4) **Nominal impedance** 75Ω unbalanced  
 (5) **Construction** As shown in the drawing (BL620).  
 (6) **Weight** Approx 25 g (Including center contact and crimp sleeve)  
 (7) **Packaging** 20 pcs / package (158×132×40 mm)  
 (8) **Designation** Stamp brand name on coupling sleeve.  
 (9) **Applicable cable** L-2.5CHD  
 (10) **Crimp tool** Hand crimp tool: TC-1 / Die: TCD-35CA

**3. Ratings**

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

**4. Characteristics****4.1 Electrical characteristics** As shown in **Table 1****Table 1**

Items	Specified values	Test methods
<b>Insulation resistance</b>	1000Ω or more	Measurement shall be made between the contacts, after an electrification time of 1 min with a d.c. voltage of 500V.
<b>Voltage proof</b>	Without any damage such as electric breakdown etc.	1500 V a.c. shall be applied for 1 min between the contacts. Trip current :0.5mA.
<b>Contact resistance</b>	Between external contacts: 3 mΩ or less Between center contacts: 6 mΩ or less	Measurement shall be made between the contacts, with engaging a plug and a receptacle. (1 kHz:1 mA a.c.)
<b>Return loss</b>	26.4 dB or more (~3 GHz) 20 dB or more (~6 GHz) 10 dB or more (~12 GHz)	An applied cable shall be attached to the plug, then it shall be terminated with 75 Ω. The measurement frequency up to 12 GHz.

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

Items	Specified values	Test methods
<b>Intermatability</b>	To be engaged without any abnormality.	The plug and an applicable receptacle shall be engaged.
<b>Fixing force of contact with lock mechanism</b>	No displacement more than 0.5 mm.	Tensile strength of 19.6 N shall be applied to the axial direction.
<b>Strength of coupling mechanism</b>	Coupling sleeve shall not be disconnected or no deformation shall be made.	The plug and a receptacle shall be engaged, after which tensile strength of 245 N and rotation strength of 2.5 N·m shall be applied.
<b>Cable connecting force</b>	200 N or more for L-2.5CHD	An applied cable shall be attached to the plug, after which tensile strength shall be applied.
<b>Mechanical operation (repeated)</b>	Contact resistance: 10 m Ω or less	The endurance test consists of 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
<b>Corrosion resistance (Salt mist)</b>	Appearance: By visual inspection, without noticeable rust. Contact resistance: 50 m Ω or less	The connector shall be subjected continuously to a fine mist of salt solution at a temperature of 35±2 °C for 48 h (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 (86 kPa to 106 kPa). 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 (86 kPa to 106 kPa).