

75 ohm BNC Crimp Plugs

Canare added the new BCP-D series for 12G-SDI. SMPTE ST 2082-1 fully compliant connector makes UHD solutions as simple as existing SDI systems. The world's highest quality BNC includes BCP-B for 3G-SDI, BCP-A/C for up to HD.

— Key Features and Benefits

- Our unique elongated body design enables easy attachment and removal.
- Gold plating on the contact pin prevents deterioration, even after years of use.
- Lock mechanism used on insulation improves reliability by preventing shifting or detaching of the center pin.

Note1: Be sure to use Canare Crimp Tool.

Note2: For crimping instructions, please refer to this page or the instruction manual.

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BCP-D55UHD



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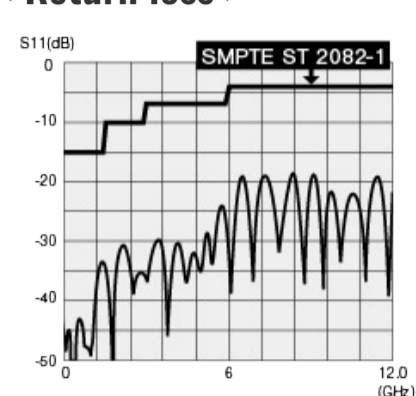
// BCP-D Series 12G-SDI Crimp Type

Model	Suitable Cable		Center Pin	Sleeve	Boot	Die Set	Standard package
	Canare	Others					
BCP-D33UHD	L-3.3CUHD	-	BN1181	BN7003A	CB03	TCD-35CA	20pcs / 100pcs
BCP-D55UHD	L-5.5CUHD	-	BN1175	B75004A	-	TCD-55UHD	20pcs / 100pcs
BCP-D57	-	4794R	BN1192	BN7002	-	TCD-57C	20pcs / 100pcs
BCP-D8UHD	L-8CUHD, L-8CHD	-	BN1174	BN7147	-	TCD-8HD*	20pcs / 100pcs

— Key Features and Benefits

- Our highest performance BNC plug newly developed for 12G-SDI
- Sufficient margin against SMPTE standard.
- (Return Loss: 20 dB @ 6 GHz, 15 dB @ 12 GHz)
- The BCP-D series takes over features from Canare's BNC connectors, such as the elongated body design and the snap locks center pin.
- Canare crimp design ensures quick and reliable installation.

< Return loss >



BCP-D55UHD

Note1: Be sure to use Canare Crimp Tool.

Note2: For crimping instructions, please refer to this page or the instruction manual.

(*) Crimp tool for TCD-8HD is TC-2

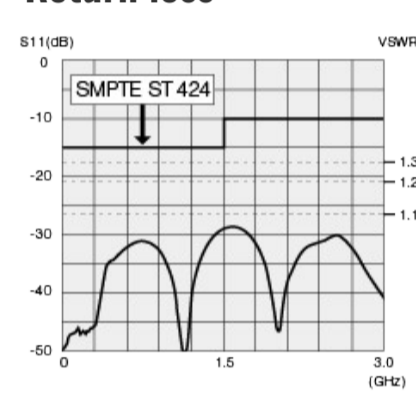
// BCP-B Series Crimp Type

Model	Suitable Cable		Center Pin	Sleeve	Boot	Die Set	Standard package
	Canare	Others					
BCP-B25HD	L-2.5CHD, L-2.5CHLT	VDM230	B11015E	BN7129	CB02	TCD-35CA	20pcs / 100pcs
BCP-B25HW	L-2.5CHWS, V4-2.5CHW	-	B11015E	BN7143	CB02	TCD-35CA	20pcs / 100pcs
BCP-B26	-	1855A, 1855P	B11014E	BN7029C	CB02	TCD-35CA	20pcs / 100pcs
BCP-B28	-	1855ENH, HD PRO 0.6/2.8 AF	B11015E	BN7052A	CB02	TCD-35CA	20pcs / 100pcs
BCP-B3F	L-3CFB, V*-3CFB	-	B11015E	BN7003A	CB03	TCD-35CA	20pcs / 100pcs
BCP-B31F	L-3CFW, V*-3CFW	-	B11015E	BN7015A	CB04	TCD-4CA, TCD-451CA	20pcs / 100pcs
BCP-B4F	L-4CHD, L-4CFB, V*-4CFB	1505A, 1505ANH, VPM2000, HD PRO 0.8/3.7 AF	B11016E	BN7015A	CB04	TCD-4CA, TCD-451CA	20pcs / 100pcs
BCP-B45HW	L-4.5CHWS	1694F	B11020D	BN7016	CB05A	TCD-35CA	20pcs / 100pcs
BCP-B53	L-4.5CHD	1694A	B11020D	BN7046	CB05A	TCD-35CA	20pcs / 100pcs
BCP-B56	-	HD PRO 1.0/4.8 AF	B11020D	BN7046	CB05A	TCD-35CA	20pcs / 100pcs
BCP-B5F	L-5CFB, V*-5CFB	-	B11020D	B75004A	CB05A	TCD-5CF, TCD-55FA	20pcs / 100pcs
BCP-B51F	L-5CFW, V*-5CFW	-	B11020D	B75004A	CB05A	TCD-5CF, TCD-55FA	20pcs / 100pcs

— Key Features and Benefits

- Return Loss: @26.4dB@3GHz

< Return loss >



BCP-B5F

Note1: Be sure to use Canare Crimp Tool.

Note2: For crimping instructions, please refer to this page or the instruction manual.

Note3: Position mark on the body makes it easier to check if the connector is locked.

Note4: BCP-B series are specially designed for particular coax cables, and minimize return loss at until 3GHz.

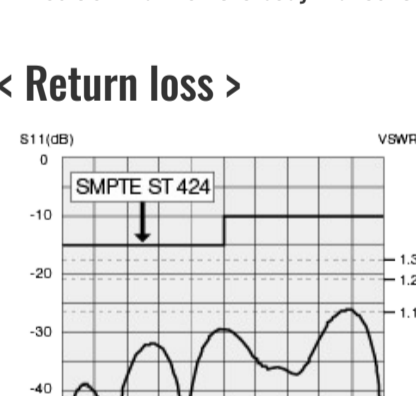
// BCP-A Series Crimp Type

Model	Suitable Cable		Center Pin	Sleeve	Boot	Die Set	Standard package
	Canare	Others					
BCP-A25	L-2.5C2V	-	BN1018A	BN7029C	CB02	TCD-35CA	20pcs / 100pcs
BCP-A25F	L-2.5CFB	1855A, 8218, 1417B, 1418B	B11014E	BN7029C	CB02	TCD-35CA	20pcs / 100pcs
BCP-A3	L-3C2VS, L-3C2V, V*-3C	-	B11014E	BN7003A	CB03	TCD-35CA	20pcs / 100pcs
BCP-A31	L-3C2W	-	B11014E	BN7011	CB04	TCD-31C	20pcs / 100pcs
BCP-A32	-	1506A, 1824A, 1825A, 1826A, 643948	B11016E	BN7026A	CB03	TCD-35CA	20pcs / 100pcs
BCP-A3AHD	L-3C-AHD	-	B11016E	BN7003A	CB03	TCD-35CA	20pcs / 100pcs
BCP-A3F	L-3CFB, V*-3CFB	-	B11015E	BN7003A	CB03	TCD-35CA	20pcs / 100pcs
BCP-A4	LV-61S	8241, 8279, RG-59B/JU	B11015E	BN7015A	CB04	TCD-4CA, TCD-451CA	20pcs / 100pcs
BCP-A42	-	1505F	B11016E	BN7011	CB04	TCD-31C	20pcs / 100pcs
BCP-A4F	L-4CHD, L-4CFB, V*-4CFB	1505A, 1505ANH, 8212, 8241F, 9167, 9259, 9659, VPM2000, HD PRO 0.8/3.7 AF	B11016E	BN7015A	CB04	TCD-4CA, TCD-451CA	20pcs / 100pcs
BCP-A5	L-5C2VS, L-5C2V, V*-5C	-	B11016E	BN7016	CB05A	TCD-35CA	20pcs / 100pcs
BCP-A52	L-5C2W	-	B11016E	BN7014	-	TCD-451CA	20pcs / 100pcs
BCP-A55	-	1695A, VSD2001TS	B11020D	BN7045A	CB04	TCD-35CA	20pcs / 100pcs
BCP-A5F	L-5CFB, V*-5CFB	-	B11020D	B75004A	CB05A	TCD-35CA	20pcs / 100pcs
BCP-A77	LV-77S	8281F	B11016E	B75004A	CB05A	TCD-5CF, TCD-55FA	20pcs / 100pcs
BCP-VA3	V*-3C	-	B11014E	BN7052A	CB03	TCD-35CA	20pcs / 100pcs
BCP-VA5	V*-5C	-	B11016E	BN7045A	CB05A	TCD-35CA	20pcs / 100pcs

— Key Features and Benefits

- Return Loss: @26.4dB@2GHz, 20.8dB@3GHz(*1)
- Canare crimp design ensures quick and reliable installation
- Gold plated "snap locks" center pin and beryllium copper outer contact.
- Elongated body design for stable finger grip.
- Position mark on the body makes it easier to check if the connector is locked.

< Return loss >



BCP-A3

Note1: Be sure to use Canare Crimp Tool.

Note2: For crimping instructions, please refer to this page or the instruction manual.

Note3: Suitable Die Set for BCP-A5F is TCD-35CA; do not use TCD-5CF/TCD-55FA for BCP-A5F.

(*1) Excluding BCP-A25, BCP-A25F and BCP-A4

// BCP-C Series Crimp Type

Model	Suitable Cable		Center Pin	Sleeve	Boot	Die Set	Standard package
	Canare	Others					
BCP-C1	L-1.5C2VS, L-3C2V, V*-1.5C	83264, 83267	Solder	BN7022	CB01	TCD-10B	20pcs / 100pcs
BCP-C5HD	L-5CHD	-	BN1139	B75004A	CB05A	TCD-5HD	20pcs / 100pcs
BCP-C6HD	L-6CHD	-	BN1083A	BN7074A	-	TCD-6HD	20pcs / 100pcs
BCP-C71A	-	7731A, 9064, 9292, 1617A, 9011	BN1043A	BN7021A	-	TCD-7CA	20pcs / 100pcs
BCP-C7FA	L-7CFB	-	BN1012B	BN7021A	-	TCD-7CA	20pcs / 100pcs
BCP-C7HD	L-7CHD	-	BN1082A	BN7021A	-	TCD-6HD	20pcs / 100pcs

— Key Features and Benefits

- Return Loss: @26.4dB@2GHz (*2)

Note1: Be sure to use Canare Crimp Tool.

Note2: For crimping instructions, please refer to this page or the instruction manual.

(*2) Excluding BCP-C1

// BCP-LC Series (Right Angle) Crimp Type

Model	Suitable Cable		Center Pin	Sleeve	Boot	Die Set	Standard package
	Canare	Others					
BCP-LC3	L-3C2VS, L-3C2V, V*-3C	1855A, 8218, 1417B, 1418B	B11014E	BN7003A	-	TCD-35CA	20pcs / 100pcs
BCP-LC3F	L-3CFB, V*-3CFB	-	B11015E	BN7003A	-	TCD-35CA	20pcs / 100pcs
BCP-LC5	L-5C2VS, L-5C2V, V*-5C	-	B11016E	BN7016	-	TCD-35CA	20pcs / 100pcs
BCP-LC5F	L-5CFB, V*-5CFB	-	B11020D	B75004A	-	TCD-5CF, TCD-55FA	20pcs / 100pcs

— Key Features and Benefits

- Return Loss: @26.4dB@2GHz
- Canare crimp design ensures quick and reliable
- Gold plated "snap locks" center pin and beryllium copper outer contact.

Note1: Be sure to use Canare Crimp Tool.

Note2: For crimping instructions, please refer to this page or the instruction manual.

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)

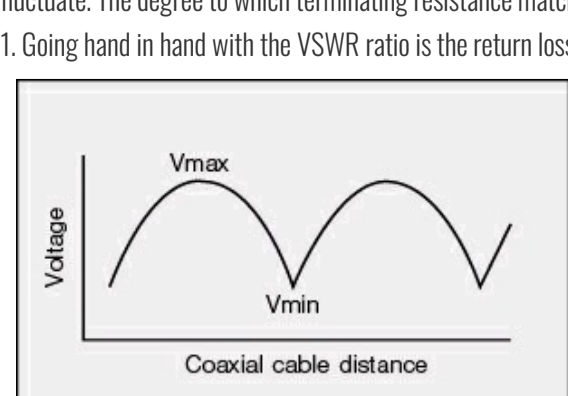


Fig. 1 Voltage Distribution Over Coaxial Cable

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

(BCP-D33UHD)

SAB521
Ver. 1.0

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
 (2) **Model name** BCP-D33UHD
 (3) **Applicable standard** IEC*¹ 61169-8, JIS*² C 5412
 (4) **Nominal impedance** 75 Ω unbalanced
 (5) **Construction** As shown in the drawing (BL521).
 (6) **Weight** Approx 13g (including center contact and crimp sleeve)
 (7) **Designation** Stamp model name (BCP-D33UHD) on washer and brand name (CANARE) on coupling sleeve.
 (8) **Packaging** 100pcs/package (220 x 155 x 37mm), 20pcs/package (150 x 50 x 31mm)
 (9) **Applicable cable** L-3.3CUHD (CANARE)
 (10) **Crimp tool** Frame: TC-1, Die: TCD-35CA

3. Ratings

- (1) **Operating temperature** -40 °C ~ +85 °C
 (2) **Operating humidity** ~ 90%

*¹International Electrotechnical Commission*²The Japanese Electric Wire & Cable Maker's Association Standard

4. Characteristics

4.1 Electrical characteristics As shown in Table 1

Table 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 breakdown etc.	1500V a.c. shall be applied for 1 min between the contacts. Trip current :0.5mA.
Contact resistance	Between external contacts: 3mΩ or less Between center contacts: 6mΩ or less	Measurement shall be made between the contacts, with engaging a plug and a receptacle. (1kHz:1mA a.c.)
Return loss	26.4dB or more(0 ~ 3GHz) 20dB or more(0 ~ 6GHz) 15dB or more(0 ~ 12GHz)	An applied cable shall be attached to the plug, then it shall be 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 plug and an applicable receptacle shall be engaged.
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	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 250N and rotation strength of 2.5N·m shall be applied.
Cable connecting force	200N or more for L-3.3CUHD	An applied cable shall be attached to the plug, after which tensile strength shall be applied.
Mechanical operation (repeated)	Contact resistance: 10mΩ or less	The endurance test consists of repeated engagement and separation of connector pairs. The measurement shall be made after 5000 cycles.

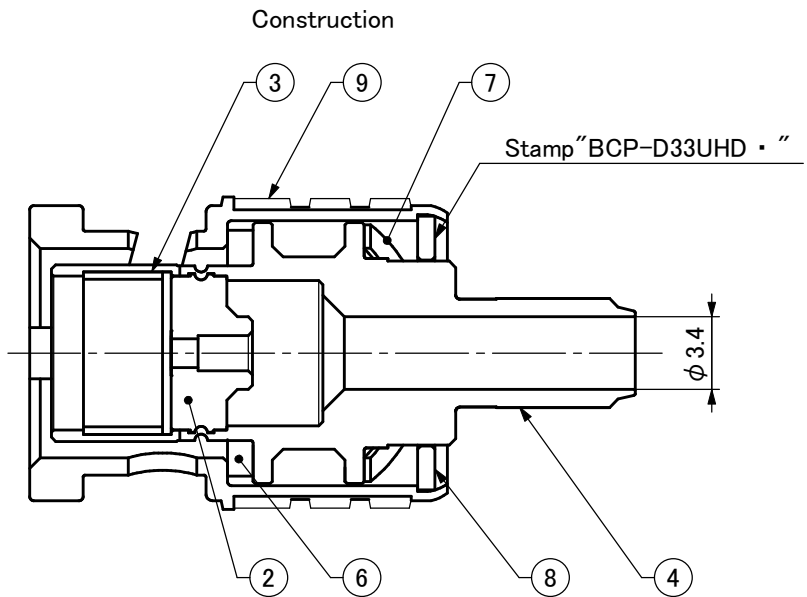
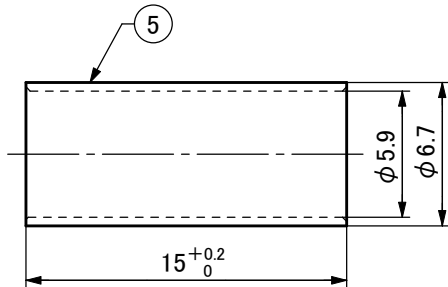
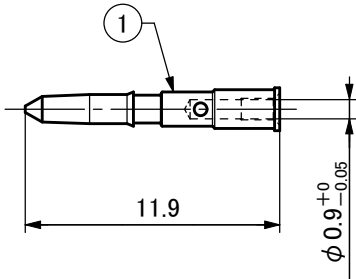
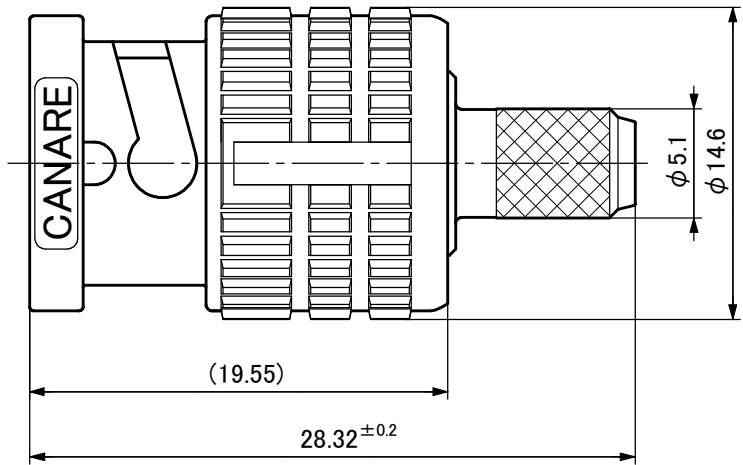
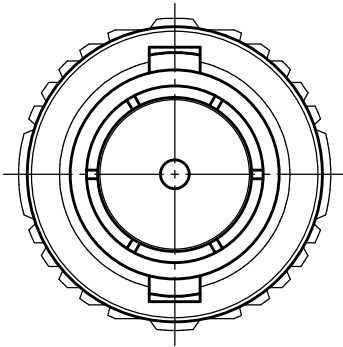
4.3 Environmental characteristics As shown in Table 3

Table 3

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

External Appearance



9	Coupling Sleeve	1	Zinc Alloy Die Casting	Nickel Plating					
8	Washer	1	Brass	Nickel Plating					
7	Spring Washer	1	Beryllium Copper	Nickel Plating					
6	Gasket	1	Silicone Rubber	—					
5	Crimp Sleeve	1	Copper	Tin Plating					
4	Body	1	Brass	Nickel Plating					
3	Inner Spring	1	Beryllium Copper	Nickel Plating					
2	Insulator	1	PTFE	—					
1	Male Center Contact	1	Brass	Gold Plating					
No.	Name of Parts	Pc(s).	Material	Finish					
Title	CRIMP TYPE	PJTN	Unit	Sc.	Tol.	Date	Ver. 1.0	Model	No.
	75 Ω BNC PLUG		mm	2√2:1	±0.1	2017-07-06		BCP-D33UHD	BL521

PRODUCT SPECIFICATIONS

(BCP-D55UHD)

SAB497
Ver. 1.0

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 |
| (2) Model name | BCP-D55UHD |
| (3) Applicable standard | IEC* ¹ 61169-8, JIS* ² C 5412 |
| (4) Nominal impedance | 75 Ω unbalanced |
| (5) Construction | As shown in the drawing (BL497). |
| (6) Weight | Approx 14.5g (including center contact and crimp sleeve) |
| (7) Designation | Stamp model name (BCP-D55UHD) on washer and brand name (CANARE) on coupling sleeve. |
| (8) Packaging | 100pcs/package (220 x 158 x 50mm), 20pcs/package (150 x 50 x 44mm) |
| (9) Applicable cable | L-5.5CUHD (CANARE) |
| (10) Crimp tool | Frame: TC-1, Die: TCD-55UHD |

3. Ratings

- | | |
|----------------------------------|-----------------|
| (1) Operating temperature | -40 °C ~ +85 °C |
| (2) Operating humidity | ~ 90% |

*¹International Electrotechnical Commission*²The Japanese Electric Wire & Cable Maker's Association Standard

4. Characteristics

4.1 Electrical characteristics As shown in Table 1

Table 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 breakdown etc.	1500V a.c. shall be applied for 1 min between the contacts. Trip current :0.5mA.
Contact resistance	Between external contacts: 3mΩ or less Between center contacts: 6mΩ or less	Measurement shall be made between the contacts, with engaging a plug and a receptacle. (1kHz:1mA a.c.)
Return loss	26.4dB or more(0 ~ 3GHz) 20dB or more(0 ~ 6GHz) 15dB or more(0 ~ 12GHz)	An applied cable shall be attached to the plug, then it shall be 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 plug and an applicable receptacle shall be engaged.
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	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 250N and rotation strength of 2.5N·m shall be applied.
Cable connecting force	200N or more for L-5.5CUHD	An applied cable shall be attached to the plug, after which tensile strength shall be applied.
Mechanical operation (repeated)	Contact resistance: 10mΩ or less	The endurance test consists of repeated engagement and separation of connector pairs. The measurement shall be made after 5000 cycles.

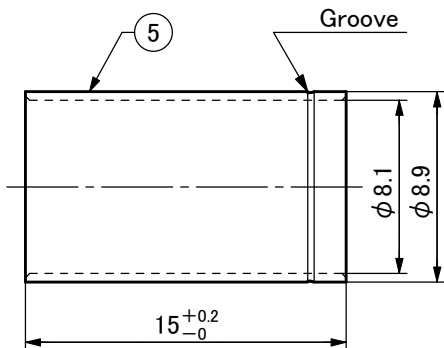
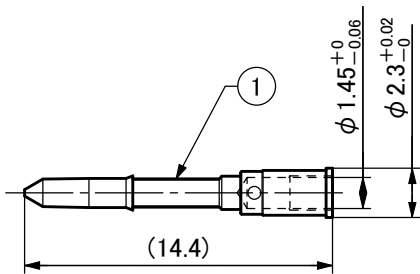
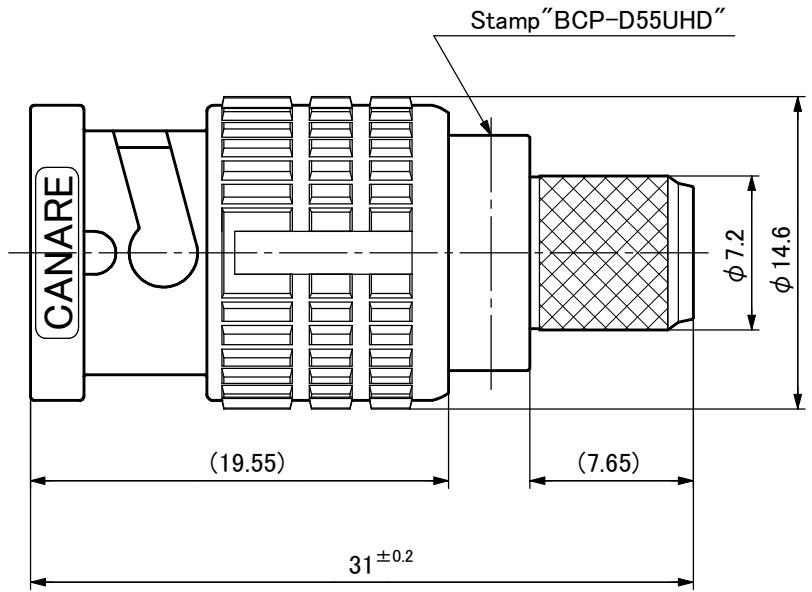
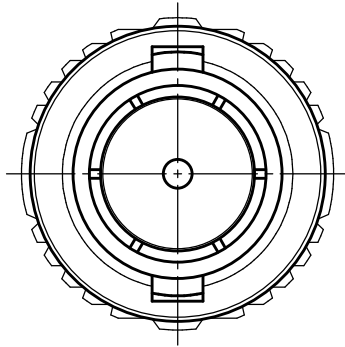
4.3 Environmental characteristics As shown in Table 3

Table 3

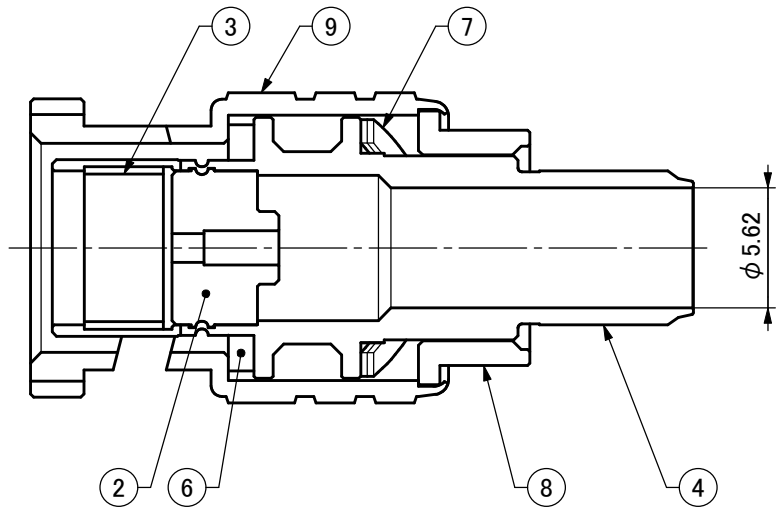
Items	Specified values	Test methods
Corrosion resistance (Salt mist)	Appearance: By visual inspection, without noticeable rust. Contact resistance: 50mΩ or less	The connector shall be subjected continuously to a fine mist of salt solution at a temperature of 35±2 °C for 48h (Salt solution concentration: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

External Appearance



Construction



9	Coupling Sleeve	1	Zinc Alloy Die Casting	Nickel Plating					
8	Washer	1	Brass	Nickel Plating					
7	Spring Washer	2	Beryllium Copper	Nickel Plating					
6	Gasket	1	Silicone Rubber	—					
5	Crimp Sleeve	1	Copper	Tin Plating					
4	Body	1	Brass	Nickel Plating					
3	Inner Spring	1	Beryllium Copper	Nickel Plating					
2	Insulator	1	PTFE	—					
1	Male Center Contact	1	Brass	Gold Plating					
No.	Name of Parts	Pc(s).	Material	Finish					
Title	CRIMP TYPE	PJTN	Unit	Sc.	Tol.	Date	Ver. 1.0	Model	No.
	75 Ω BNC PLUG		mm	2√2:1	±0.1	2017-01-06		BCP-D55UHD	BL497

PRODUCT SPECIFICATIONS

(BCP-D8UHD)

SAB539
Ver. 1.0

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 |
| (2) Model name | BCP-D8UHD |
| (3) Applicable standard | IEC* ¹ 61169-8, JIS* ² C 5412 |
| (4) Nominal impedance | 75 Ω unbalanced |
| (5) Construction | As shown in the drawing (BL495). |
| (6) Weight | Approx 19g (including center contact and crimp sleeve) |
| (7) Designation | Stamp model name (BCP-C8HD) and brand name (CANARE) on coupling sleeve. |
| (8) Packaging | 20pcs/package (106 x 100 x 44mm) |
| (9) Applicable cable | L-8CUHD, L-8CHD, L-8CHD-EM (CANARE) |
| (10) Crimp tool | Frame: TC-2, Die: TCD-8HD |
- *¹International Electrotechnical Commission
*²Japanese Industrial Standard

3. Ratings

- (1) Operating temperature -40 °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	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 breakdown etc.	1500V a.c. shall be applied for 1 min between the contacts. Trip current :0.5mA.
Contact resistance	Between external contacts: 3mΩ or less Between center contacts: 6mΩ or less	Measurement shall be made between the contacts, with engaging a plug and a receptacle. (1kHz:1mA a.c.)
Return loss	26.4dB or more(0 ~ 3GHz) 20dB or more(0 ~ 6GHz) 15dB or more(0 ~ 12GHz)	An applied cable shall be attached to the plug, then it shall be terminated with 75 Ω. The measurement frequency up to 12GHz.

4.2 Mechanical characteristics As shown in Table 2

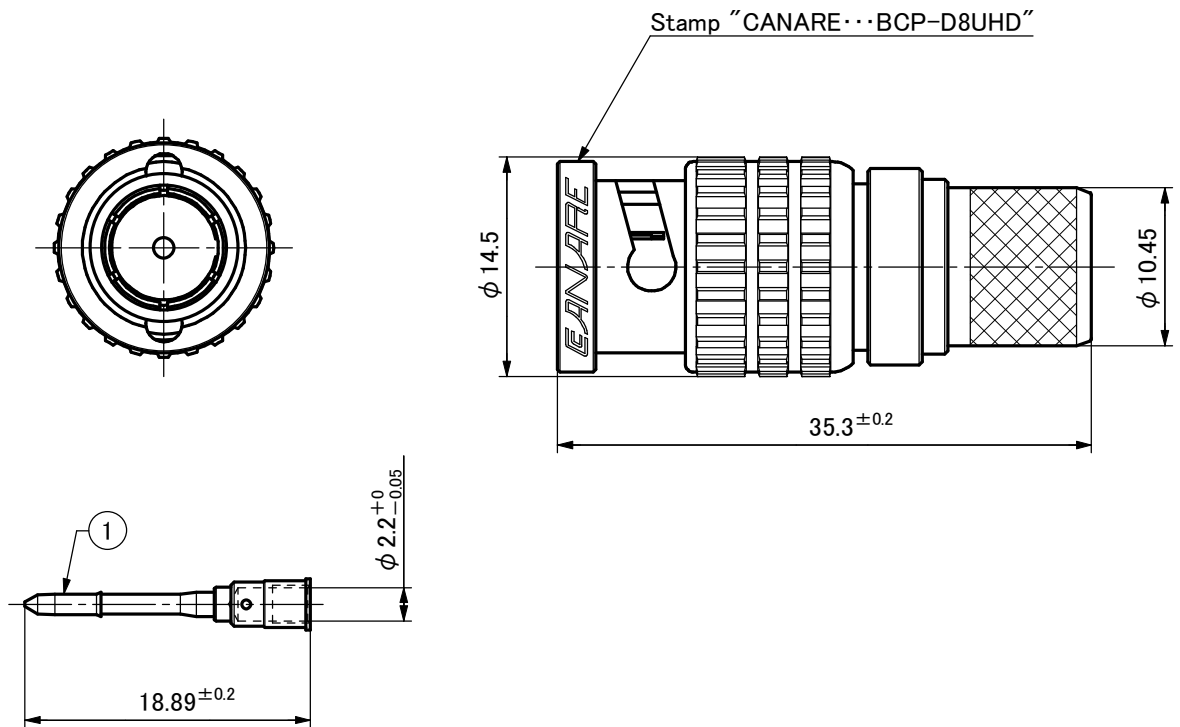
Table 2		
Items	Specified values	Test methods
Intermatability	To be engaged without any abnormality.	The plug and an applicable receptacle shall be engaged.
Fixing force of contact with lock mechanism	No displacement more than 0.5 mm.	Tensile strength of 19.6N shall be applied to the axial direction.
Strength of coupling mechanism	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 250N and rotation strength of 2.5N·m shall be applied.
Cable connecting force	245N or more for L-8CUHD	An applied cable shall be attached to the plug, after which tensile strength shall be applied.
Mechanical operation (repeated)	Contact resistance: 10mΩ or less	The endurance test consists of repeated engagement and separation of connector pairs. The number of operations shall be 1000 cycles.

4.3 Environmental characteristics As shown in Table 3

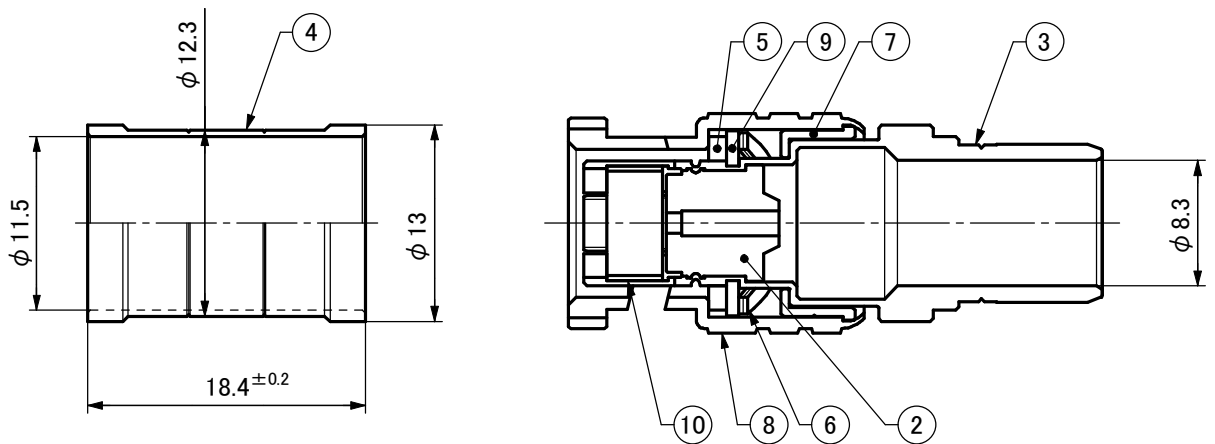
Table 3		
Items	Specified values	Test methods
Corrosion resistance (Salt mist)	Appearance: By visual inspection, without noticeable rust. Contact resistance: 50mΩ or less Voltage proof: 1500V a.c. shall be applied for 1min, Without any damage such as electricbreakdown etc.	The connector shall be subjected 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).

External Appearance



Construction



10	Inner Spring	1	Beryllium Copper	Nickel Plating					
9	Half-cut Washer	2	Brass	Nickel Plating					
8	Coupling Sleeve	1	Brass	Nickel Plating					
7	Washer	1	Brass	Nickel Plating					
6	Spring Washer	2	Beryllium Copper	Nickel Plating					
5	Gasket	1	Silicone Rubber	—					
4	Crimp Sleeve	1	Brass	Tin Plating					
3	Body	1	Brass	Nickel Plating					
2	Insulator	1	PTFE	—					
1	Male Center Contact	1	Brass	Gold Plating					
No.	Name of Parts	Pc(s).	Material	Finish					
Title	CRIMP TYPE 75Ω BNC PLUG	PJTN 	Unit mm	Sc. 2:1	Tol. ±0.1	Date 2018-10-17	Ver. 1.0	Model BCP-D8HD	No. BL539

PRODUCT SPECIFICATIONS

(BCP-D57)

SAB534
Ver. 1.0

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 |
| (2) Model name | BCP-D57 |
| (3) Applicable standard | IEC* ¹ 61169-8, JIS* ² C 5412 |
| (4) Nominal impedance | 75 Ω unbalanced |
| (5) Construction | As shown in the drawing (BL534). |
| (6) Weight | Approx 14.5g (including center contact and crimp sleeve) |
| (7) Designation | Stamp model name (BCP-D57) on washer and brand name (CANARE) on coupling sleeve. |
| (8) Packaging | 20pcs/package (150 x 50 x 44mm) |
| (9) Applicable cable | 4794R (BELDEN) |
| (10) Crimp tool | Frame: TC-1, Die: TCD-57C |

3. Ratings

- | | |
|----------------------------------|-----------------|
| (1) Operating temperature | -40 °C ~ +85 °C |
| (2) Operating humidity | ~ 90% |

*¹International Electrotechnical Commission*²The Japanese Electric Wire & Cable Maker's Association Standard

4. Characteristics

4.1 Electrical characteristics As shown in Table 1

Table 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 breakdown etc.	1500V a.c. shall be applied for 1 min between the contacts. Trip current :0.5mA.
Contact resistance	Between external contacts: 3mΩ or less Between center contacts: 6mΩ or less	Measurement shall be made between the contacts, with engaging a plug and a receptacle. (1kHz:1mA a.c.)
Return loss	26.4dB or more(0 ~ 3GHz) 20dB or more(0 ~ 6GHz) 15dB or more(0 ~ 12GHz)	An applied cable shall be attached to the plug, then it shall be 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 plug and an applicable receptacle shall be engaged.
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	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 250N and rotation strength of 2.5N·m shall be applied.
Cable connecting force	200N or more for 4794R	An applied cable shall be attached to the plug, after which tensile strength shall be applied.
Mechanical operation (repeated)	Contact resistance: 10mΩ or less	The endurance test consists of repeated engagement and separation of connector pairs. The measurement shall be made after 5000 cycles.

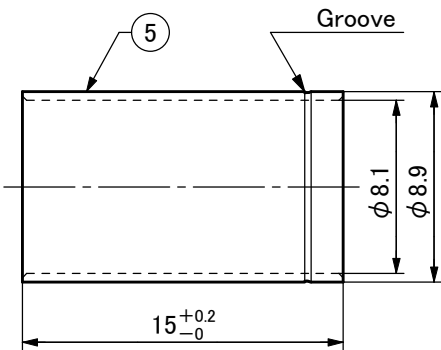
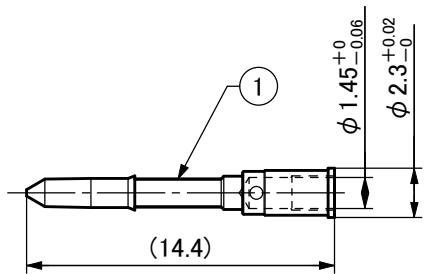
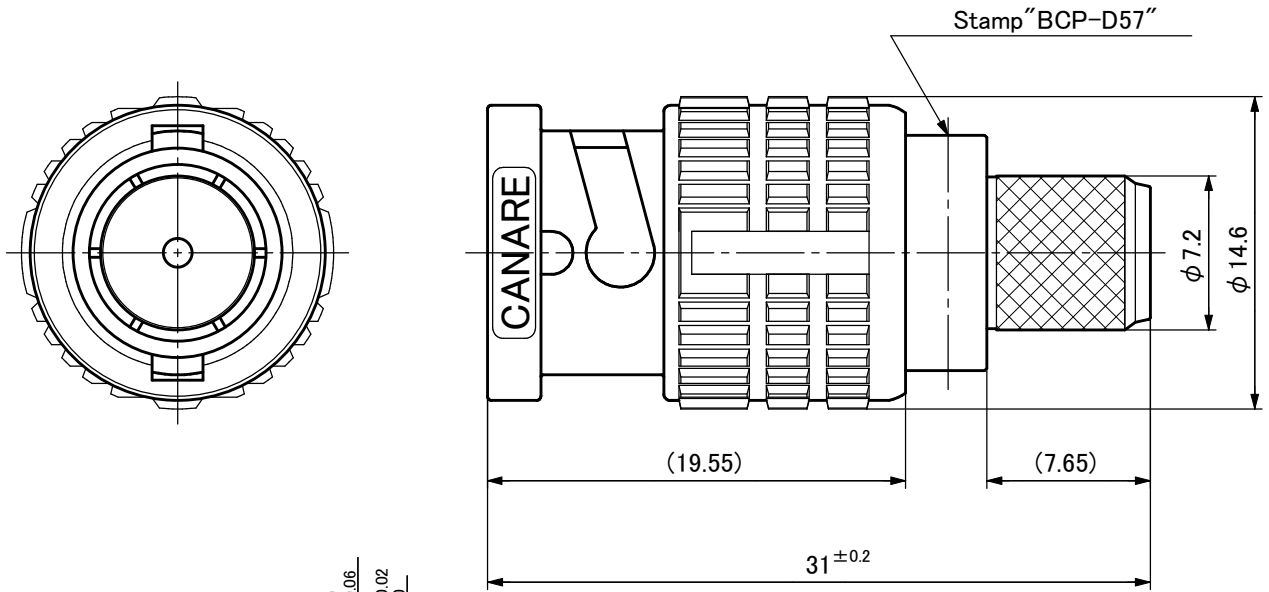
4.3 Environmental characteristics As shown in Table 3

Table 3

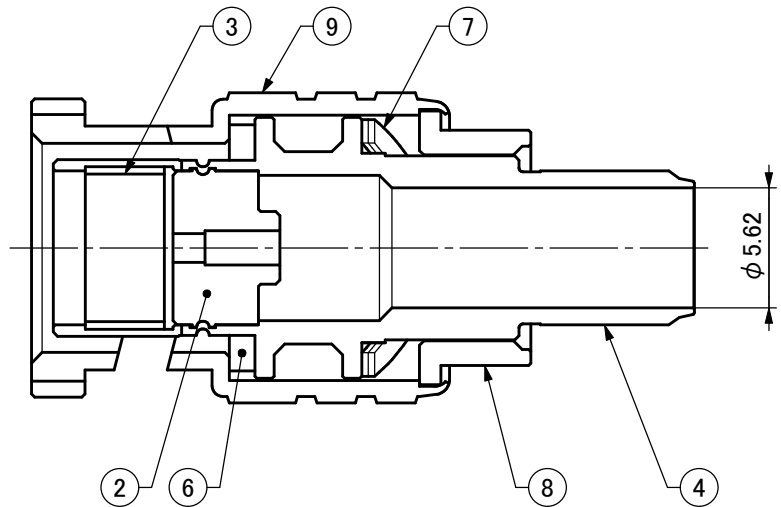
Items	Specified values	Test methods
Corrosion resistance (Salt mist)	Appearance: By visual inspection, without noticeable rust. Contact resistance: 50mΩ or less	The connector shall be subjected continuously to a fine mist of salt solution at a temperature of 35±2 °C for 48h (Salt solution concentration: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

External Appearance



Construction



9	Coupling Sleeve	1	Zinc Alloy Die Casting	Nickel Plating					
8	Washer	1	Brass	Nickel Plating					
7	Spring Washer	2	Beryllium Copper	Nickel Plating					
6	Gasket	1	Silicone Rubber	—					
5	Crimp Sleeve	1	Copper	Tin Plating					
4	Body	1	Brass	Nickel Plating					
3	Inner Spring	1	Beryllium Copper	Nickel Plating					
2	Insulator	1	PTFE	—					
1	Male Center Contact	1	Brass	Gold Plating					
No.	Name of Parts	Pc(s).	Material	Finish					
Title	CRIMP TYPE	PJTN	Unit	Sc.	Tol.	Date	Ver. 1.0	Model	No.
	75 Ω BNC PLUG		mm	2√2:1	±0.1	2018-05-21		BCP-D57	BL534

PRODUCT SPECIFICATIONS

(BCP-B25HW)

SAB471

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

- (1) **Product name** Crimp type 75 Ω BNC plug
 (2) **Model name** BCP-B25HW
 (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)
 (7) **Designation** Stamp model name (BCP-B25HW) on washer and brand name (CANARE) on 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)
 (9) **Applicable cable** V4-2.5CHW, L-2.5CHWS (CANARE)
 (10) **Crimp tool** Frame: TC-1, Die: TCD-35CA

3. Ratings

- (1) **Operating temperature** -40 °C ~ +85 °C
 (2) **Operating humidity** ~ 90%
 *1 International Electrotechnical Commission
 *2 Japanese Industrial Standard

4. Characteristics

4.1 Electrical characteristics As shown in Table 1

Table 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 breakdown etc.	1500V a.c. shall be applied for 1 min between the contacts. Trip current :0.5mA.
Contact resistance	Between external contacts: 3mΩ or less Between center contacts: 6mΩ or less	Measurement shall be made between the contacts, with engaging a plug and a receptacle. (1kHz:1mA a.c.)
Return loss	26.4dB or more	An applied cable shall be attached to the plug, then it shall be terminated with 75 Ω. The measurement frequency up to 3GHz.
Voltage standing wave ratio (V.S.W.R)	1.1 or less	

4.2 Mechanical characteristics As shown in Table 2

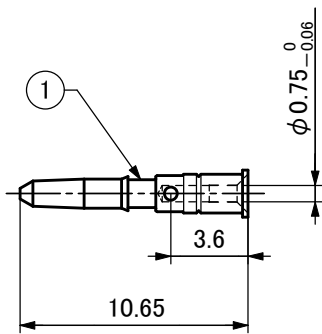
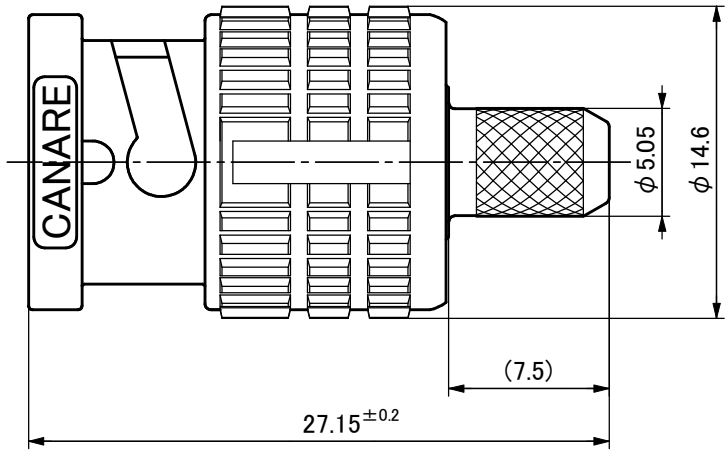
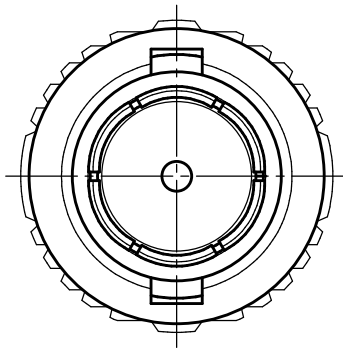
Table 2		
Items	Specified values	Test methods
Intermatability	To be engaged without any abnormality.	The plug and an applicable receptacle shall be engaged.
Fixing force of contact with lock mechanism	No displacement more than 0.5 mm.	Tensile strength of 19.6N shall be applied to the axial direction.
Strength of coupling mechanism	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 250N and rotation strength of 2.5N·m shall be applied.
Cable connecting force	200N or more	An applied cable shall be attached to the plug, after which tensile strength shall be applied.
Mechanical operation (repeated)	Contact resistance: 10mΩ 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

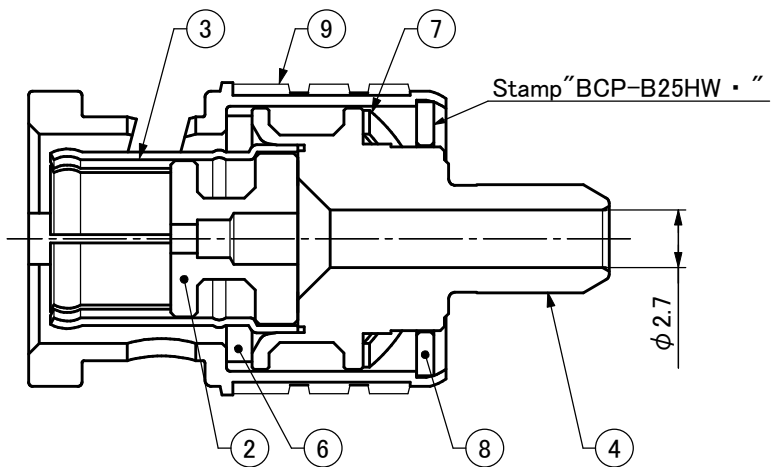
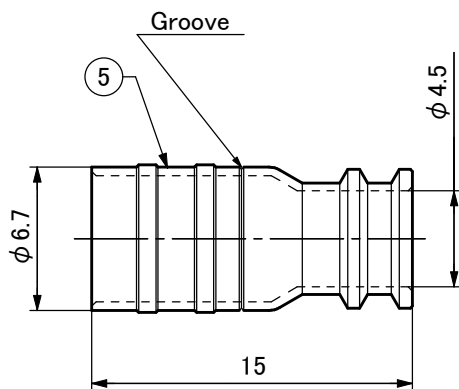
Table 3		
Items	Specified values	Test methods
Corrosion resistance (Salt mist)	Appearance: By visual inspection, without noticeable rust. Contact resistance: 50mΩ or less	The connector shall be subjected continuously to a fine mist of salt solution at a temperature of 35±2 °C for 48h (Salt solution concentration: 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).

External Appearance



Construction



9	Coupling Sleeve	1	Zinc Alloy Die Casting	Nickel Plating					
8	Washer	1	Brass	Nickel Plating					
7	Spring Washer	1	Beryllium Copper	Nickel Plating					
6	Gasket	1	Silicone Rubber	—					
5	Crimp Sleeve	1	Brass	Tin Plating					
4	Body	1	Brass	Nickel Plating					
3	Outer Contact	1	Beryllium Copper	Nickel Plating					
2	Insulator	1	PTFE	—					
1	Male Center Contact	1	Brass	Gold Plating					
No.	Name of Parts	Pc(s).	Material	Finish					
Title	CRIMP TYPE	PJTN	Unit	Sc.	Tol.	Date	Ver. 1.0	Model	No.
	75 Ω BNC PLUG		mm	2√2:1	±0.1	2014-06-02		BCP-B25HW	BL471

PRODUCT SPECIFICATIONS

(BCP-B25HD)

SAB395
Ver. 1.3

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 |
| (2) Model name | BCP-B25HD |
| (3) Applicable standard | IEC* ¹ 61169-8, JIS* ² C 5412 |
| (4) Nominal impedance | 75 Ω unbalanced |
| (5) Construction | As shown in the drawing (BL395). |
| (6) Weight | Approx 12.5g (including center contact and crimp sleeve) |
| (7) Designation | Stamp model name (BCP-B25HD) on washer and brand name (CANARE) on 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) |
| (9) Applicable cable | L-2.5CHD, L-2.5CHLT (CANARE), VDM230(GEPCO) |
| (10) Crimp tool | Frame: TC-1, Die: TCD-35CA |

3. Ratings

- | | |
|----------------------------------|-----------------|
| (1) Operating temperature | -40 °C ~ +85 °C |
| (2) Operating humidity | ~ 90% |
- *¹International Electrotechnical Commission
*²Japanese Industrial Standard

4. Characteristics

4.1 Electrical characteristics As shown in Table 1

Table 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 breakdown etc.	1500V a.c. shall be applied for 1 min between the contacts. Trip current :0.5mA.
Contact resistance	Between external contacts: 3mΩ or less Between center contacts: 6mΩ or less	Measurement shall be made between the contacts, with engaging a plug and a receptacle. (1kHz:1mA a.c.)
Return loss	26.4dB or more	An applied cable shall be attached to the plug, then it shall be terminated with 75 Ω. The measurement frequency up to 3GHz.
Voltage standing wave ratio (V.S.W.R)	1.1 or less	

4.2 Mechanical characteristics As shown in Table 2

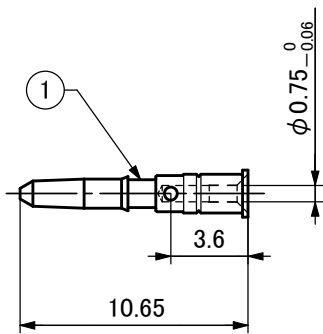
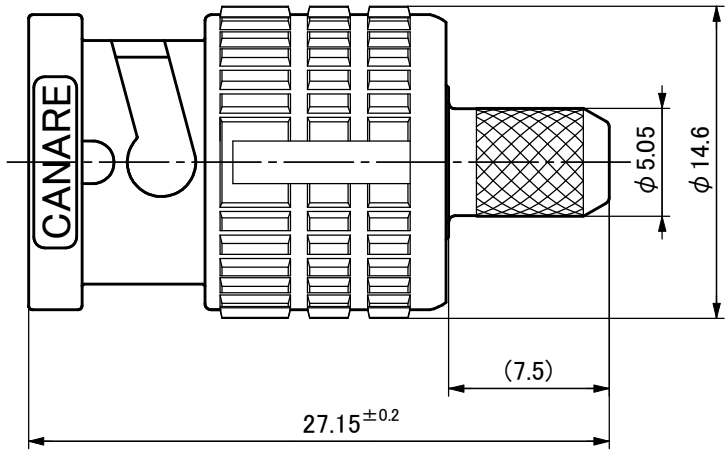
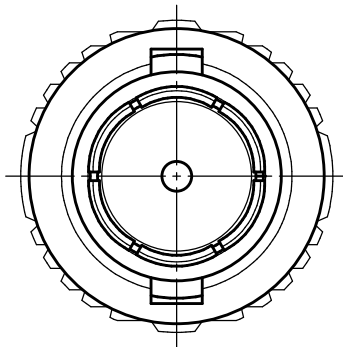
Table 2		
Items	Specified values	Test methods
Intermatability	To be engaged without any abnormality.	The plug and an applicable receptacle shall be engaged.
Fixing force of contact with lock mechanism	No displacement more than 0.5 mm.	Tensile strength of 19.6N shall be applied to the axial direction.
Strength of coupling mechanism	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 250N and rotation strength of 2.5N·m shall be applied.
Cable connecting force	150N or more (L-2.5CHLT : 130N or more)	An applied cable shall be attached to the plug, after which tensile strength shall be applied.
Mechanical operation (repeated)	Contact resistance: 10mΩ 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

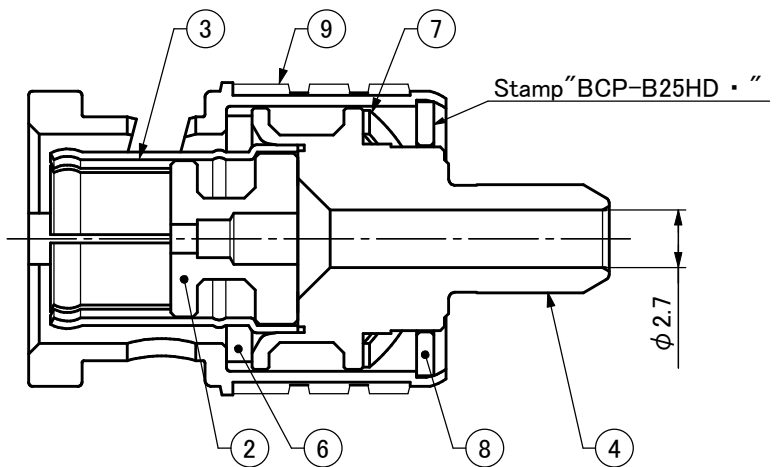
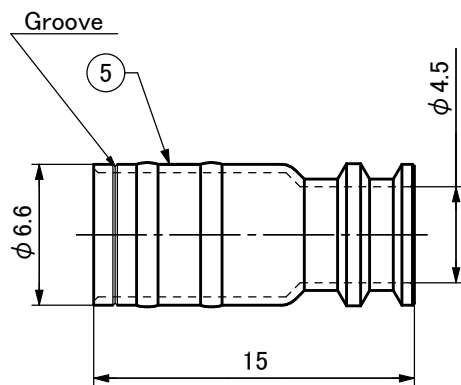
Table 3		
Items	Specified values	Test methods
Corrosion resistance (Salt mist)	Appearance: By visual inspection, without noticeable rust. Contact resistance: 50mΩ or less	The connector shall be subjected continuously to a fine mist of salt solution at a temperature of 35±2 °C for 48h (Salt solution concentration: 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).

External Appearance



Construction



9	Coupling Sleeve	1	Zinc Alloy Die Casting	Nickel Plating					
8	Washer	1	Brass	Nickel Plating					
7	Spring Washer	1	Beryllium Copper	Nickel Plating					
6	Gasket	1	Silicone Rubber	—					
5	Crimp Sleeve	1	Brass	Tin Plating					
4	Body	1	Brass	Nickel Plating					
3	Outer Contact	1	Beryllium Copper	Nickel Plating					
2	Insulator	1	PTFE	—					
1	Male Center Contact	1	Brass	Gold Plating					
No.	Name of Parts	Pc(s).	Material	Finish					
Title	CRIMP TYPE	PJTN	Unit	Sc.	Tol.	Date	Ver. 1.0	Model	No.
	75Ω BNC PLUG		mm	2√2:1	±0.1	2011-03-25		BCP-B25HD	BL395

PRODUCT SPECIFICATIONS

(BCP-B28)

SAB459
Ver. 1.0

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 |
| (2) Model name | BCP-B28 |
| (3) Applicable standard | IEC* ¹ 61169-8, JIS* ² C 5412 |
| (4) Nominal impedance | 75 Ω unbalanced |
| (5) Construction | As shown in the drawing (BL459). |
| (6) Weight | Approx 12.5g (including center contact and crimp sleeve) |
| (7) Designation | Stamp model name (BCP-B28) on washer and brand name (CANARE) on coupling sleeve. |
| (8) Packaging | 100pcs/package (220 x 155 x 37mm), 20pcs/package (150 x 50 x 31mm), |
| (9) Applicable cable | 1855ENH (BELDEN), 0.6/2.8AF(DRAKA) |
| (10) Crimp tool | Frame: TC-1, Die: TCD-35CA |

3. Ratings

- | | |
|----------------------------------|-----------------|
| (1) Operating temperature | -40 °C ~ +85 °C |
| (2) Operating humidity | ~ 90% |
- *¹International Electrotechnical Commission
*²Japanese Industrial Standard

4. Characteristics

4.1 Electrical characteristics As shown in Table 1

Table 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 breakdown etc.	1500V a.c. shall be applied for 1 min between the contacts. Trip current :0.5mA.
Contact resistance	Between external contacts: 3mΩ or less Between center contacts: 6mΩ or less	Measurement shall be made between the contacts, with engaging a plug and a receptacle. (1kHz:1mA a.c.)
Return loss	26.4dB or more	An applied cable shall be attached to the plug, then it shall be terminated with 75 Ω. The measurement frequency up to 3GHz.
Voltage standing wave ratio (V.S.W.R)	1.1 or less	

4.2 Mechanical characteristics As shown in Table 2

Table 2

Items	Specified values	Test methods
Intermatability	To be engaged without any abnormality.	The plug and an applicable receptacle shall be engaged.
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	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 250N and rotation strength of 2.5N·m shall be applied.
Cable connecting force	1855ENH : 150N or more 0.6/2.8AF : 130N or more	An applied cable shall be attached to the plug, after which tensile strength shall be applied.
Mechanical operation (repeated)	Contact resistance: 10mΩ or less	The endurance test consists of repeated engagement and separation of connector pairs. The measurement shall be made after 5000 cycles.

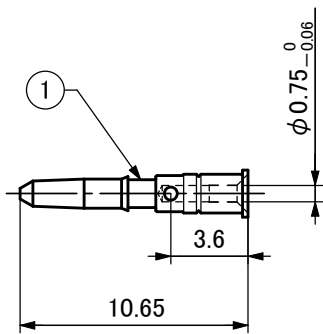
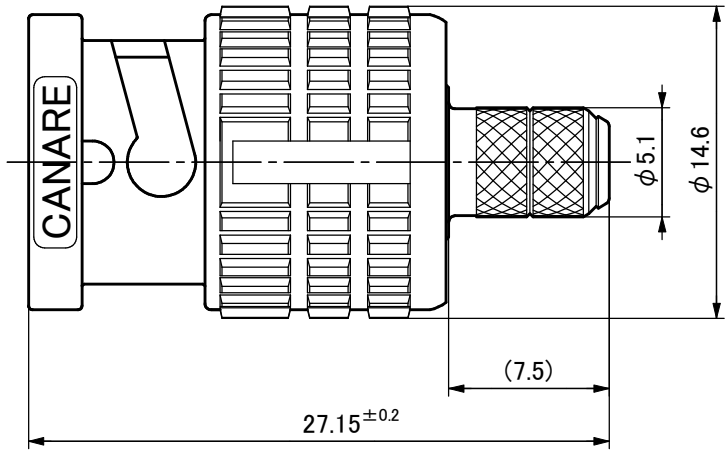
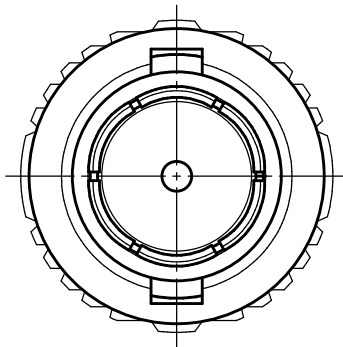
4.3 Environmental characteristics As shown in Table 3

Table 3

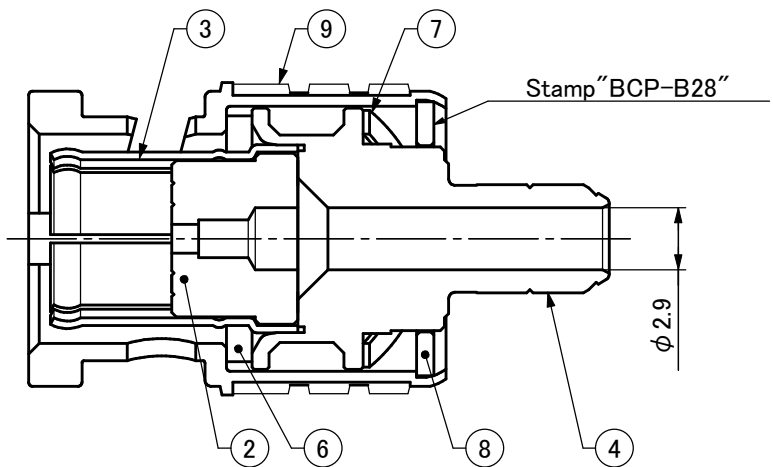
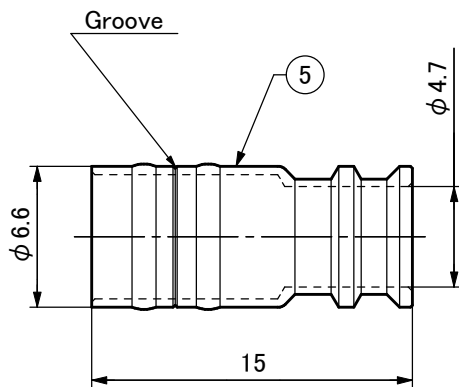
Items	Specified values	Test methods
Corrosion resistance (Salt mist)	Appearance: By visual inspection, without noticeable rust. Contact resistance: 50mΩ or less	The connector shall be subjected continuously to a fine mist of salt solution at a temperature of 35±2 °C for 48h (Salt solution concentration: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

External Appearance



Construction



9	Coupling Sleeve	1	Zinc Alloy Die Casting	Nickel Plating					
8	Washer	1	Brass	Nickel Plating					
7	Spring Washer	1	Beryllium Copper	Nickel Plating					
6	Gasket	1	Silicone Rubber	—					
5	Crimp Sleeve	1	Brass	Tin Plating					
4	Body	1	Brass	Nickel Plating					
3	Outer Contact	1	Beryllium Copper	Nickel Plating					
2	Insulator	1	PTFE	—					
1	Male Center Contact	1	Brass	Gold Plating					
No.	Name of Parts	Pc(s).	Material	Finish					
Title	CRIMP TYPE	PJTN	Unit	Sc.	Tol.	Date	Ver. 1.0	Model	No.
	75 Ω BNC PLUG		mm	2√2:1	±0.1	2013-02-21		BCP-B28	BL459

PRODUCT SPECIFICATIONS

(BCP-B26)

SAB396

Ver. 1.2

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
 (2) **Model name** BCP-B26
 (3) **Applicable standard** IEC*¹ 61169-8, JIS*² C 5412
 (4) **Nominal impedance** 75 Ω unbalanced
 (5) **Construction** As shown in the drawing (BL396).
 (6) **Weight** Approx 12.5g (including center contact and crimp sleeve)
 (7) **Designation** Stamp model name (BCP-B26) on washer and brand name (CANARE) on 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)
 (9) **Applicable cable** 1855A, 1855P (BELDEN)
 (10) **Crimp tool** Frame: TC-1, Die: TCD-35CA

3. Ratings

- (1) **Operating temperature** -40 °C ~ +85 °C
 (2) **Operating humidity** ~ 90%
 *¹International Electrotechnical Commission
 *²Japanese Industrial Standard

4. Characteristics

4.1 Electrical characteristics As shown in Table 1

Table 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 breakdown etc.	1500V a.c. shall be applied for 1 min between the contacts. Trip current :0.5mA.
Contact resistance	Between external contacts: 3mΩ or less Between center contacts: 6mΩ 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	An applied cable shall be attached to the plug, then it shall be terminated with 75 Ω. The measurement frequency up to 3GHz.
Voltage standing wave ratio (V.S.W.R)	1.1 or less	

4.2 Mechanical characteristics As shown in Table 2

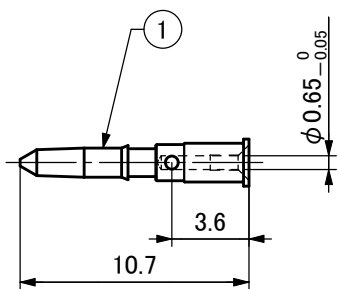
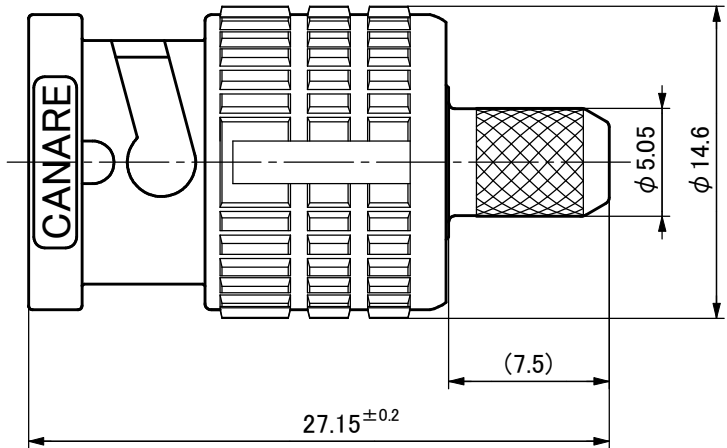
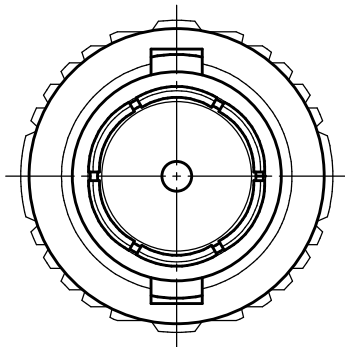
Table 2		
Items	Specified values	Test methods
Intermatability	To be engaged without any abnormality.	The plug and an applicable receptacle shall be engaged.
Fixing force of contact with lock mechanism	No displacement more than 0.5 mm.	Tensile strength of 19.6N shall be applied to the axial direction.
Strength of coupling mechanism	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 250N and rotation strength of 2.5N·m shall be applied.
Cable connecting force	147N or more for 1855A	An applied cable shall be attached to the plug, after which tensile strength shall be applied.
Mechanical operation (repeated)	Contact resistance: 10mΩ 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

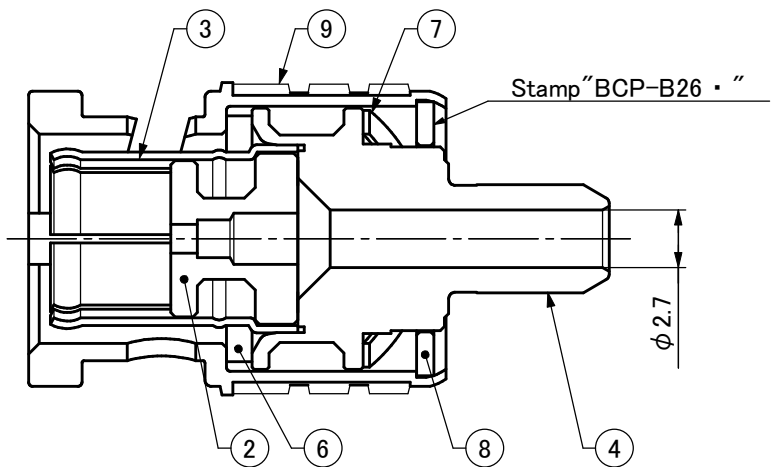
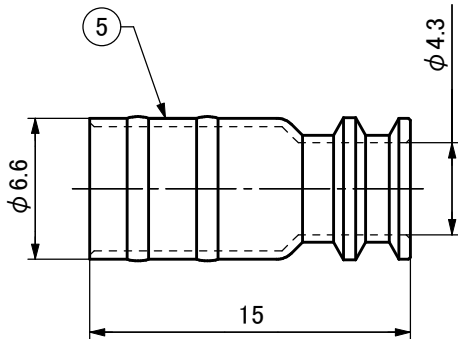
Table 3		
Items	Specified values	Test methods
Corrosion resistance (Salt mist)	Appearance: By visual inspection, without noticeable rust. Contact resistance: 50mΩ or less	The connector shall be subjected continuously to a fine mist of salt solution at a temperature of 35±2 °C for 48h (Salt solution concentration: 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).

External Appearance



Construction



9	Coupling Sleeve	1	Zinc Alloy Die Casting	Nickel Plating					
8	Washer	1	Brass	Nickel Plating					
7	Spring Washer	1	Beryllium Copper	Nickel Plating					
6	Gasket	1	Silicone Rubber	—					
5	Crimp Sleeve	1	Brass	Tin Plating					
4	Body	1	Brass	Nickel Plating					
3	Outer Contact	1	Beryllium Copper	Nickel Plating					
2	Insulator	1	PTFE	—					
1	Male Center Contact	1	Brass	Gold Plating					
No.	Name of Parts	Pc(s).	Material	Finish					
Title	CRIMP TYPE	PJTN	Unit	Sc.	Tol.	Date	Ver. 1.1	Model	No.
	75 Ω BNC PLUG		mm	2√2:1	±0.1	2011-03-25		BCP-B26	BL396

PRODUCT SPECIFICATIONS

(BCP-B3F)

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
 (2) **Model name** BCP-B3F
 (3) **Applicable standard** IEC*¹ 61169-8, JIS*² C 5412
 (4) **Nominal impedance** 75 Ω unbalanced
 (5) **Construction** As shown in the drawing (BL397).
 (6) **Weight** Approx 12g (including center contact and crimp sleeve)
 (7) **Designation** Stamp model name (BCP-B3F) on washer and brand name (CANARE) on coupling sleeve.
 (8) **Packaging** 100pcs/package (220 x 155 x 37mm), 20pcs/package (150 x 50 x 31mm)
 (9) **Applicable cable** L-3CFB, LS-3CFB (CANARE)
 (10) **Crimp tool** Frame: TC-1, Die: TCD-35CA

3. Ratings

- (1) **Operating temperature** -40 °C ~ +85 °C
 (2) **Operating humidity** ~ 90%
 *¹International Electrotechnical Commission
 *²Japanese Industrial Standard

4. Characteristics

4.1 Electrical characteristics As shown in Table 1

Table 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 breakdown etc.	1500V a.c. shall be applied for 1 min between the contacts. Trip current :0.5mA.
Contact resistance	Between external contacts: 3mΩ or less Between center contacts: 6mΩ or less	Measurement shall be made between the contacts, with engaging a plug and a receptacle. (1kHz:1mA a.c.)
Return loss	26.4dB or more	An applied cable shall be attached to the plug, then it shall be terminated with 75 Ω. The measurement frequency up to 3GHz.
Voltage standing wave ratio (V.S.W.R)	1.1 or less	

4.2 Mechanical characteristics As shown in Table 2

Table 2

Items	Specified values	Test methods
Intermatability	To be engaged without any abnormality.	The plug and an applicable receptacle shall be engaged.
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	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 250N and rotation strength of 2.5N·m shall be applied.
Cable connecting force	196N or more for L-3CFB 147N or more for LS-3CFB	An applied cable shall be attached to the plug, after which tensile strength shall be applied.
Mechanical operation (repeated)	Contact resistance: 10mΩ or less	The endurance test consists of repeated engagement and separation of connector pairs. The measurement shall be made after 5000 cycles.

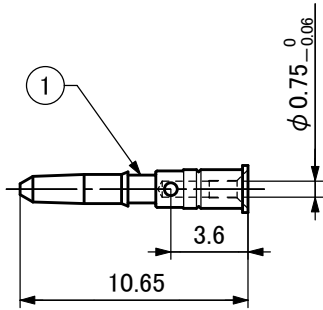
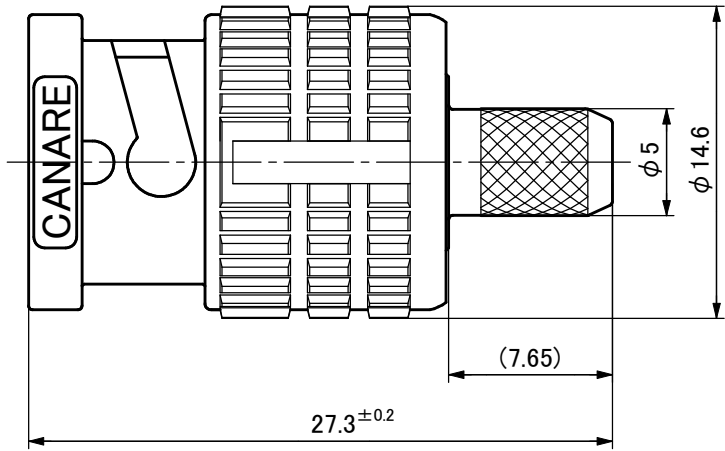
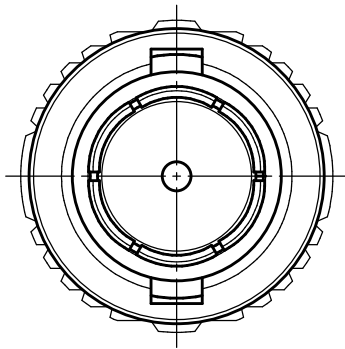
4.3 Environmental characteristics As shown in Table 3

Table 3

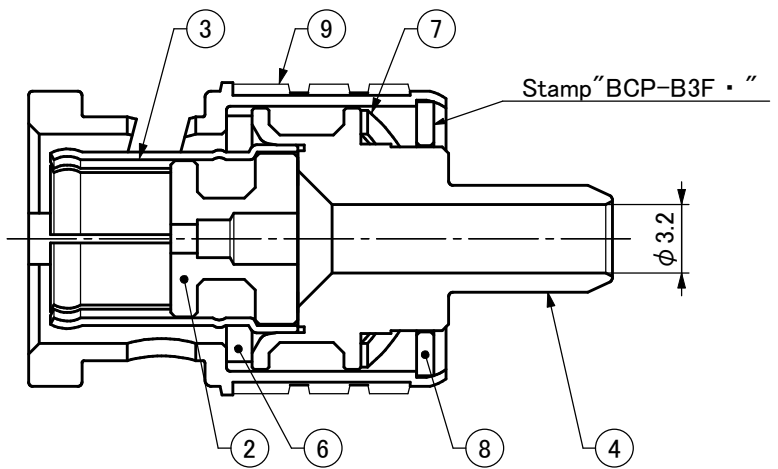
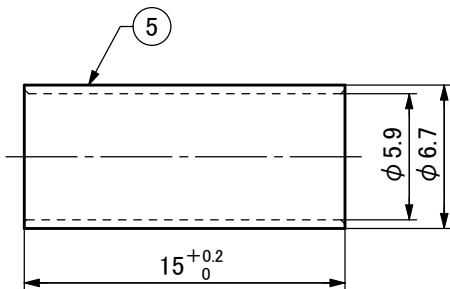
Items	Specified values	Test methods
Corrosion resistance (Salt mist)	Appearance: By visual inspection, without noticeable rust. Contact resistance: 50mΩ or less	The connector shall be subjected continuously to a fine mist of salt solution at a temperature of 35±2 °C for 48h (Salt solution concentration: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

External Appearance



Construction



9	Coupling Sleeve	1	Zinc Alloy Die Casting	Nickel Plating					
8	Washer	1	Brass	Nickel Plating					
7	Spring Washer	1	Beryllium Copper	Nickel Plating					
6	Gasket	1	Silicone Rubber	—					
5	Crimp Sleeve	1	Copper	Tin Plating					
4	Body	1	Brass	Nickel Plating					
3	Outer Contact	1	Beryllium Copper	Nickel Plating					
2	Insulator	1	PTFE	—					
1	Male Center Contact	1	Brass	Gold Plating					
No.	Name of Parts	Pc(s).	Material	Finish					
Title	CRIMP TYPE	PJTN	Unit	Sc.	Tol.	Date	Ver. 1.0	Model	No.
	75 Ω BNC PLUG		mm	2√2:1	±0.1	2011-03-25		BCP-B3F	BL397

PRODUCT SPECIFICATIONS

(BCP-B31F)

SAB401
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

- | | |
|--------------------------------|--|
| (1) Product name | Crimp type 75 Ω BNC plug |
| (2) Model name | BCP-B31F |
| (3) Applicable standard | IEC* ¹ 61169-8, JIS* ² C 5412 |
| (4) Nominal impedance | 75 Ω unbalanced |
| (5) Construction | As shown in the drawing (BL401). |
| (6) Weight | Approx 12.5g (including center contact and crimp sleeve) |
| (7) Designation | Stamp model name (BCP-B31F) on washer and brand name (CANARE) on 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) |
| (9) Applicable cable | L-3CFW (CANARE) |
| (10) Crimp tool | Frame: TC-1, Die: TCD-451CA, TCD-4CA |

3. Ratings

- | | |
|----------------------------------|-----------------|
| (1) Operating temperature | -40 °C ~ +85 °C |
| (2) Operating humidity | ~ 90% |
- *¹International Electrotechnical Commission
*²Japanese Industrial Standard

4. Characteristics

4.1 Electrical characteristics As shown in Table 1

Table 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 breakdown etc.	1500V a.c. shall be applied for 1 min between the contacts. Trip current :0.5mA.
Contact resistance	Between external contacts: 3mΩ or less Between center contacts: 6mΩ or less	Measurement shall be made between the contacts, with engaging a plug and a receptacle. (1kHz:1mA a.c.)
Return loss	26.4dB or more	An applied cable shall be attached to the plug, then it shall be terminated with 75 Ω. The measurement frequency up to 3GHz.
Voltage standing wave ratio (V.S.W.R)	1.1 or less	

4.2 Mechanical characteristics As shown in Table 2

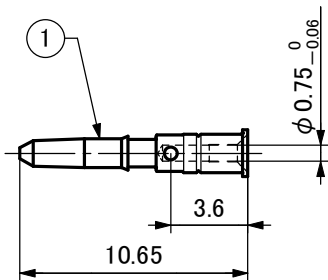
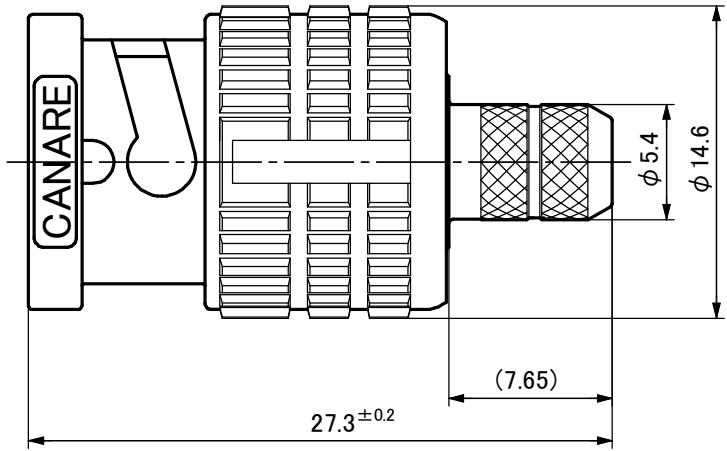
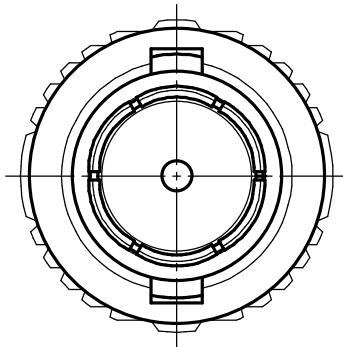
Table 2		
Items	Specified values	Test methods
Intermatability	To be engaged without any abnormality.	The plug and an applicable receptacle shall be engaged.
Fixing force of contact with lock mechanism	No displacement more than 0.5 mm.	Tensile strength of 19.6N shall be applied to the axial direction.
Strength of coupling mechanism	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 250N and rotation strength of 2.5N·m shall be applied.
Cable connecting force	245N or more for L-3CFW	An applied cable shall be attached to the plug, after which tensile strength shall be applied.
Mechanical operation (repeated)	Contact resistance: 10mΩ 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

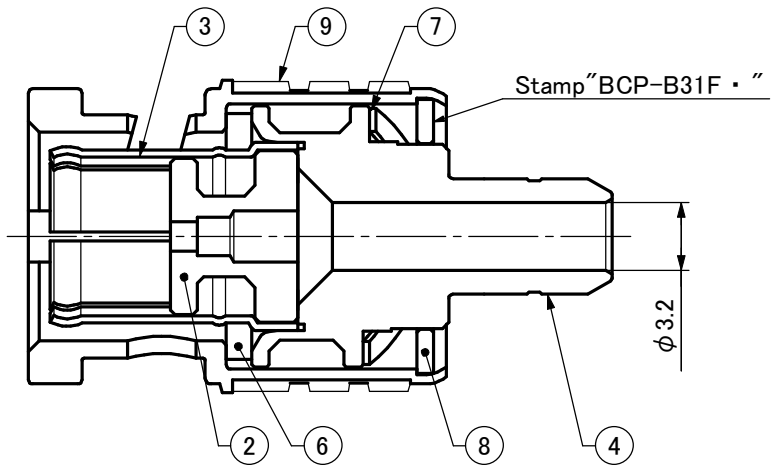
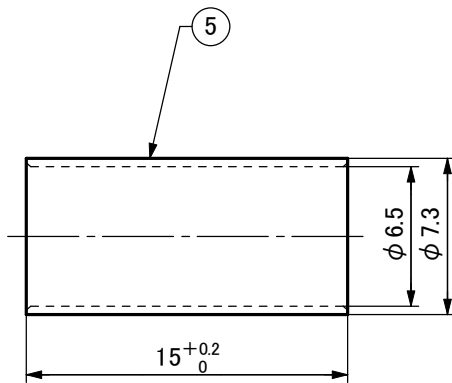
Table 3		
Items	Specified values	Test methods
Corrosion resistance (Salt mist)	Appearance: By visual inspection, without noticeable rust. Contact resistance: 50mΩ or less	The connector shall be subjected continuously to a fine mist of salt solution at a temperature of 35±2 °C for 48h (Salt solution concentration: 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).

External Appearance



Construction



9	Coupling Sleeve	1	Zinc Alloy Die Casting	Nickel Plating					
8	Washer	1	Brass	Nickel Plating					
7	Spring Washer	1	Beryllium Copper	Nickel Plating					
6	Gasket	1	Silicone Rubber	—					
5	Crimp Sleeve	1	Copper	Tin Plating					
4	Body	1	Brass	Nickel Plating					
3	Outer Contact	1	Beryllium Copper	Nickel Plating					
2	Insulator	1	PTFE	—					
1	Male Center Contact	1	Brass	Gold Plating					
No.	Name of Parts	Pc(s).	Material	Finish					
Title	CRIMP TYPE	PJTN	Unit	Sc.	Tol.	Date	Ver. 1.0	Model	No.
	75 Ω BNC PLUG		mm	2√2:1	±0.1	2011-03-25		BCP-B31F	BL401

PRODUCT SPECIFICATIONS

(BCP-B4F)

SAB398

Ver. 1.3

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
 (2) **Model name** BCP-B4F
 (3) **Applicable standard** IEC*¹ 61169-8, JIS*² C 5412
 (4) **Nominal impedance** 75 Ω unbalanced
 (5) **Construction** As shown in the drawing (BL398).
 (6) **Weight** Approx 12g (including center contact and crimp sleeve)
 (7) **Designation** Stamp model name (BCP-B4F) on washer and brand name (CANARE) on 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)
 (9) **Applicable cable** L-4CFB, LS-4CFB, L-4CHD, V*-4CFB (CANARE), 1505A (BELDEN), HD PRO 0.8/3.7AF (DRAKA), VPM2000 (GEPCO)
 (10) **Crimp tool** Frame: TC-1, Die: TCD-451CA, TCD-4CA

3. Ratings

- (1) **Operating temperature** -40 °C ~ +85 °C
 (2) **Operating humidity** ~ 90%
 *¹International Electrotechnical Commission
 *²Japanese Industrial Standard

4. Characteristics

4.1 Electrical characteristics As shown in Table 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 breakdown etc.	1500V a.c. shall be applied for 1 min between the contacts. Trip current :0.5mA.
Contact resistance	Between external contacts: 3mΩ or less Between center contacts: 6mΩ or less	Measurement shall be made between the contacts, with engaging a plug and a receptacle. (1kHz:1mA a.c.)
Return loss	26.4dB or more	An applied cable shall be attached to the plug, then it shall be terminated with 75 Ω. The measurement frequency up to 3GHz.
Voltage standing wave ratio (V.S.W.R)	1.1 or less	

4.2 Mechanical characteristics As shown in Table 2

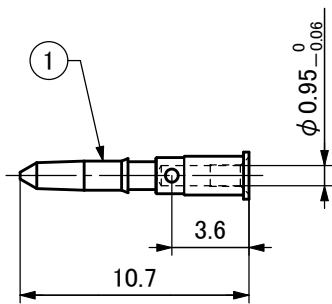
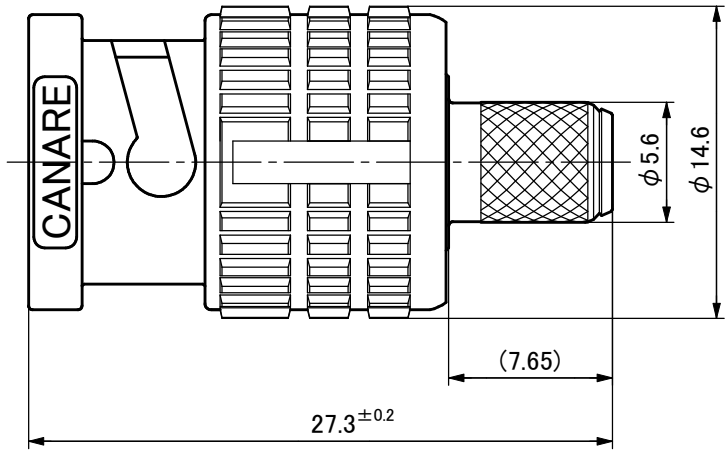
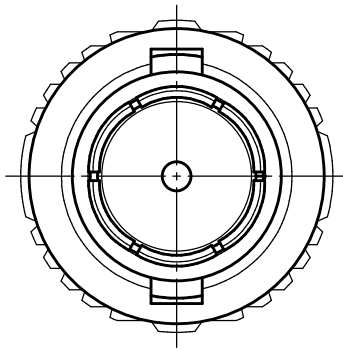
Items	Specified values	Test methods
Intermatability	To be engaged without any abnormality.	The plug and an applicable receptacle shall be engaged.
Fixing force of contact with lock mechanism	No displacement more than 0.5 mm.	Tensile strength of 19.6N shall be applied to the axial direction.
Strength of coupling mechanism	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 250N and rotation strength of 2.5N·m shall be applied.
Cable connecting force	196N or more (LS-4CFB : 147N or more)	An applied cable shall be attached to the plug, after which tensile strength shall be applied.
Mechanical operation (repeated)	Contact resistance: 10mΩ 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

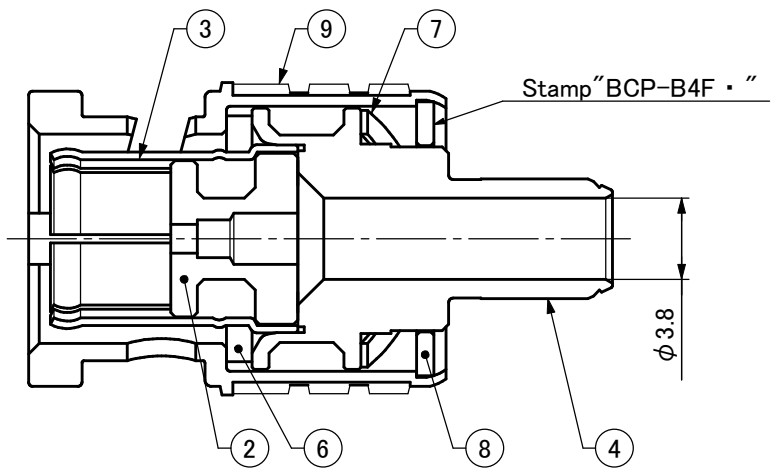
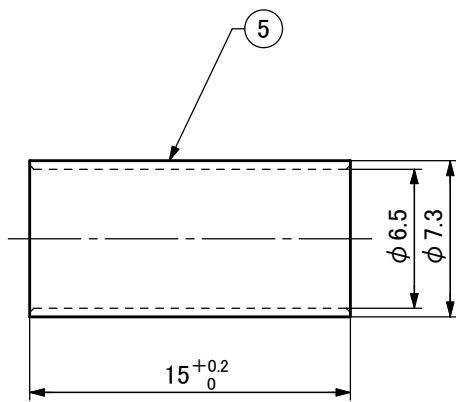
Items	Specified values	Test methods
Corrosion resistance (Salt mist)	Appearance: By visual inspection, without noticeable rust. Contact resistance: 50mΩ or less	The connector shall be subjected continuously to a fine mist of salt solution at a temperature of 35±2 °C for 48h (Salt solution concentration: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

External Appearance



Construction



9	Coupling Sleeve	1	Zinc Alloy Die Casting	Nickel Plating				
8	Washer	1	Brass	Nickel Plating				
7	Spring Washer	1	Beryllium Copper	Nickel Plating				
6	Gasket	1	Silicone Rubber	—				
5	Crimp Sleeve	1	Copper	Tin Plating				
4	Body	1	Brass	Nickel Plating				
3	Outer Contact	1	Beryllium Copper	Nickel Plating				
2	Insulator	1	PTFE	—				
1	Male Center Contact	1	Brass	Gold Plating				
No.	Name of Parts	Pc(s).	Material	Finish				
Title CRIMP TYPE		PJTN	Unit Sc.	Tol.	Date Ver. 1.0	Model	No.	
75 Ω BNC PLUG			mm	2√2:1	±0.1	2011-03-25	BCP-B4F	BL398

PRODUCT SPECIFICATIONS

(BCP-B45HW)

SAB422
Ver. 1.0

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 |
| (2) Model name | BCP-B45HW |
| (3) Applicable standard | IEC* ¹ 61169-8, JIS* ² C 5412 |
| (4) Nominal impedance | 75 Ω unbalanced |
| (5) Construction | As shown in the drawing (BL422). |
| (6) Weight | Approx 12.2g (including center contact and crimp sleeve) |
| (7) Designation | Stamp model name (BCP-B45HW) on washer and brand name (CANARE) on coupling sleeve. |
| (8) Packaging | 100pcs/package (220 x 155 x 37mm), 20pcs/package (150 x 50 x 31mm) |
| (9) Applicable cable | L-4.5CHWS (CANARE), 1694F (BELDEN) |
| (10) Crimp tool | Frame: TC-1, Die: TCD-35CA |

3. Ratings

- | | |
|----------------------------------|-----------------|
| (1) Operating temperature | -40 °C ~ +85 °C |
| (2) Operating humidity | ~ 90% |
- *¹International Electrotechnical Commission
*²Japanese Industrial Standard

4. Characteristics

4.1 Electrical characteristics As shown in Table 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 breakdown etc.	1500V a.c. shall be applied for 1 min between the contacts. Trip current :0.5mA.
Contact resistance	Between external contacts: 3mΩ or less Between center contacts: 6mΩ or less	Measurement shall be made between the contacts, with engaging a plug and a receptacle. (1kHz:1mA a.c.)
Return loss	26.4dB or more	An applied cable shall be attached to the plug, then it shall be terminated with 75 Ω. The measurement frequency up to 3GHz.
Voltage standing wave ratio (V.S.W.R)	1.1 or less	

4.2 Mechanical characteristics As shown in Table 2

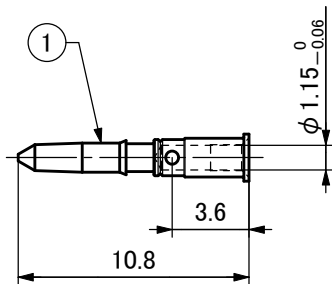
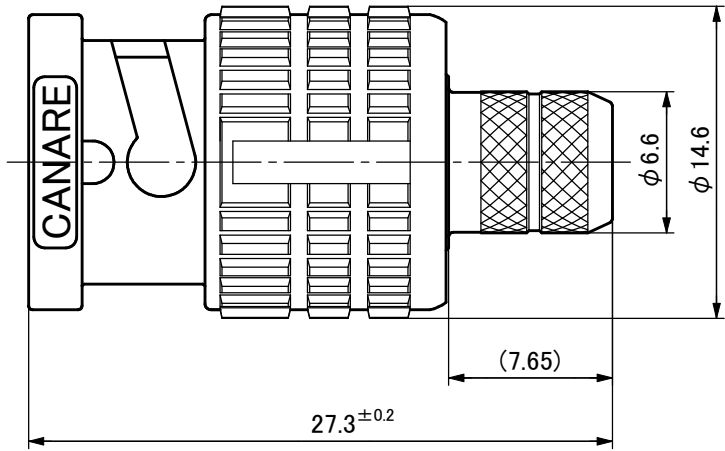
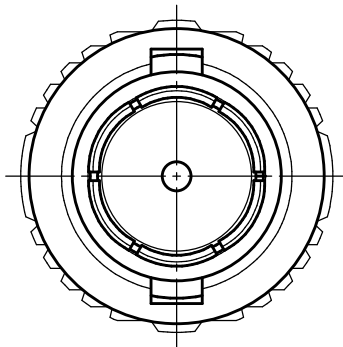
Items	Specified values	Test methods
Intermatability	To be engaged without any abnormality.	The plug and an applicable receptacle shall be engaged.
Fixing force of contact with lock mechanism	No displacement more than 0.5 mm.	Tensile strength of 19.6N shall be applied to the axial direction.
Strength of coupling mechanism	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 250N and rotation strength of 2.5N·m shall be applied.
Cable connecting force	245N or more for L-4.5CHWS	An applied cable shall be attached to the plug, after which tensile strength shall be applied.
Mechanical operation (repeated)	Contact resistance: 10mΩ 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

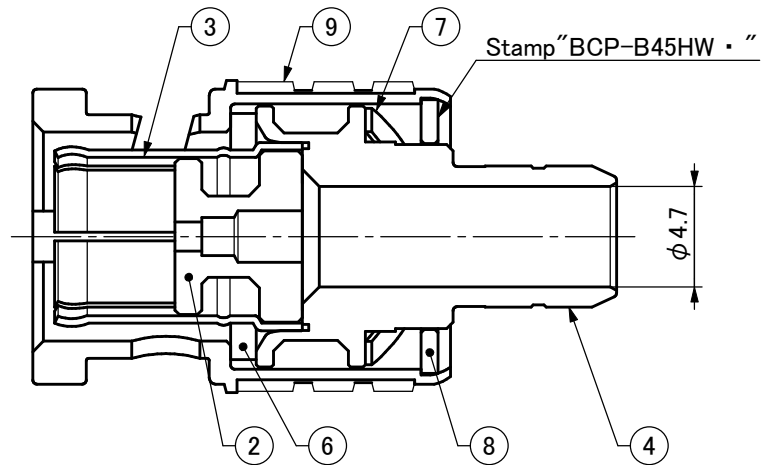
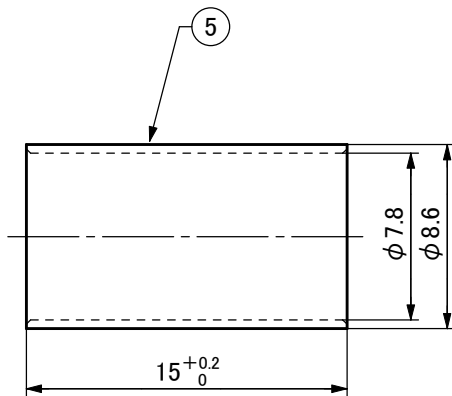
Items	Specified values	Test methods
Corrosion resistance (Salt mist)	Appearance: By visual inspection, without noticeable rust. Contact resistance: 50mΩ or less	The connector shall be subjected continuously to a fine mist of salt solution at a temperature of 35±2 °C for 48h (Salt solution concentration: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

External Appearance



Construction



9	Coupling Sleeve	1	Zinc Alloy Die Casting	Nickel Plating
8	Washer	1	Brass	Nickel Plating
7	Spring Washer	1	Beryllium Copper	Nickel Plating
6	Gasket	1	Silicone Rubber	—
5	Crimp Sleeve	1	Copper	Tin Plating
4	Body	1	Brass	Nickel Plating
3	Outer Contact	1	Beryllium Copper	Nickel Plating
2	Insulator	1	PTFE	—
1	Male Center Contact	1	Brass	Gold Plating
No.	Name of Parts	Pc(s).	Material	Finish
Title CRIMP TYPE		PJTN	Unit Sc.	Date Ver. 1.0
75 Ω BNC PLUG			mm 2√2:1	2011-06-01
			Model BCP-B45HW	No. BL422

PRODUCT SPECIFICATIONS

(BCP-B53)

SAB399

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

- | | |
|--------------------------------|--|
| (1) Product name | Crimp type 75 Ω BNC plug |
| (2) Model name | BCP-B53 |
| (3) Applicable standard | IEC* ¹ 61169-8, JIS* ² C 5412 |
| (4) Nominal impedance | 75 Ω unbalanced |
| (5) Construction | As shown in the drawing (BL399). |
| (6) Weight | Approx 12.5g (including center contact and crimp sleeve) |
| (7) Designation | Stamp model name (BCP-B53) on washer and brand name (CANARE) on 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) |
| (9) Applicable cable | L-4.5CHD(CANARE), 1694A (BELDEN) |
| (10) Crimp tool | Frame: TC-1, Die: TCD-35CA |

3. Ratings

- | | |
|----------------------------------|-----------------|
| (1) Operating temperature | -40 °C ~ +85 °C |
| (2) Operating humidity | ~ 90% |
- *¹International Electrotechnical Commission
*²Japanese Industrial Standard

4. Characteristics

4.1 Electrical characteristics As shown in Table 1

Table 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 breakdown etc.	1500V a.c. shall be applied for 1 min between the contacts. Trip current :0.5mA.
Contact resistance	Between external contacts: 3mΩ or less Between center contacts: 6mΩ or less	Measurement shall be made between the contacts, with engaging a plug and a receptacle. (1kHz:1mA a.c.)
Return loss	26.4dB or more	An applied cable shall be attached to the plug, then it shall be terminated with 75 Ω. The measurement frequency up to 3GHz.
Voltage standing wave ratio (V.S.W.R)	1.1 or less	

4.2 Mechanical characteristics As shown in Table 2

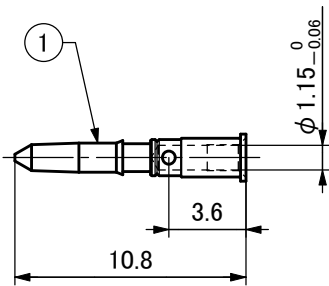
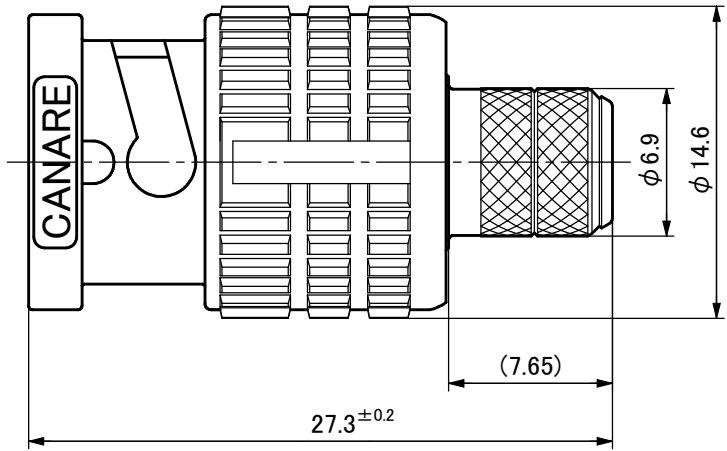
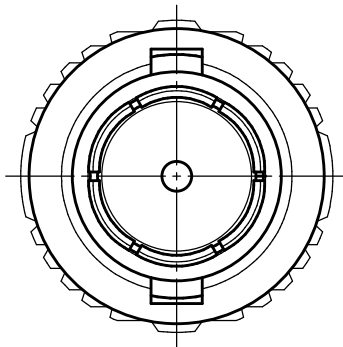
Table 2		
Items	Specified values	Test methods
Intermatability	To be engaged without any abnormality.	The plug and an applicable receptacle shall be engaged.
Fixing force of contact with lock mechanism	No displacement more than 0.5 mm.	Tensile strength of 19.6N shall be applied to the axial direction.
Strength of coupling mechanism	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 250N and rotation strength of 2.5N·m shall be applied.
Cable connecting force	245N or more for L-4.5CHD	An applied cable shall be attached to the plug, after which tensile strength shall be applied.
Mechanical operation (repeated)	Contact resistance: 10mΩ 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

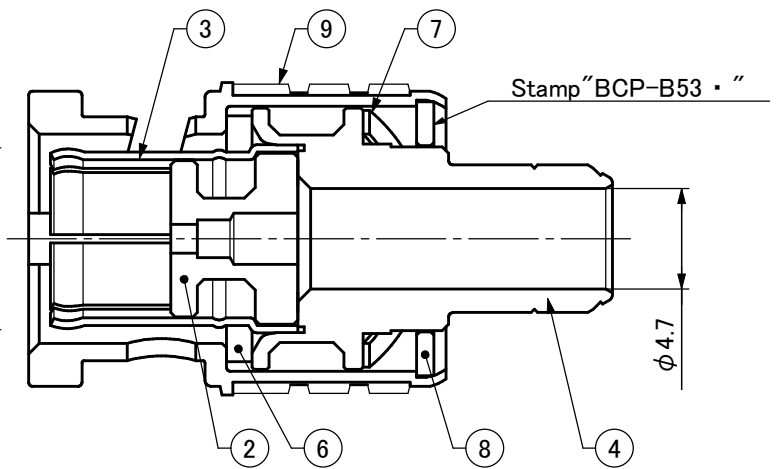
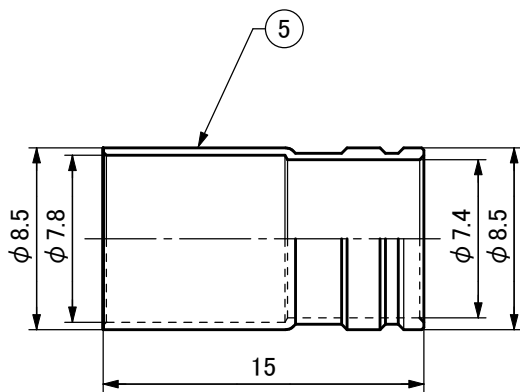
Table 3		
Items	Specified values	Test methods
Corrosion resistance (Salt mist)	Appearance: By visual inspection, without noticeable rust. Contact resistance: 50mΩ or less	The connector shall be subjected continuously to a fine mist of salt solution at a temperature of 35±2 °C for 48h (Salt solution concentration: 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).

External Appearance



Construction



9	Coupling Sleeve	1	Zinc Alloy Die Casting	Nickel Plating					
8	Washer	1	Brass	Nickel Plating					
7	Spring Washer	1	Beryllium Copper	Nickel Plating					
6	Gasket	1	Silicone Rubber	—					
5	Crimp Sleeve	1	Brass	Tin Plating					
4	Body	1	Brass	Nickel Plating					
3	Outer Contact	1	Beryllium Copper	Nickel Plating					
2	Insulator	1	PTFE	—					
1	Male Center Contact	1	Brass	Gold Plating					
No.	Name of Parts	Pc(s).	Material	Finish					
Title	CRIMP TYPE	PJTN	Unit	Sc.	Tol.	Date	Ver. 1.0	Model	No.
	75 Ω BNC PLUG		mm	2√2:1	±0.1	2011-03-25		BCP-B53	BL399

PRODUCT SPECIFICATIONS

(BCP-B56)

SAB460
Ver. 1.0

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
 (2) **Model name** BCP-B56
 (3) **Applicable standard** IEC*¹ 61169-8, JIS*² C 5412
 (4) **Nominal impedance** 75 Ω unbalanced
 (5) **Construction** As shown in the drawing (BL460).
 (6) **Weight** Approx 12.5g (including center contact and crimp sleeve)
 (7) **Designation** Stamp model name (BCP-B56) on washer and brand name (CANARE) on coupling sleeve.
 (8) **Packaging** 100pcs/package (220 x 155 x 37mm), 20pcs/package (150 x 50 x 31mm),
 (9) **Applicable cable** 1.0/4.8AF(DRAKA)
 (10) **Crimp tool** Frame: TC-1, Die: TCD-35CA

3. Ratings

- (1) **Operating temperature** -40 °C ~ +85 °C
 (2) **Operating humidity** ~ 90%

*¹International Electrotechnical Commission*²Japanese Industrial Standard

4. Characteristics

4.1 Electrical characteristics As shown in Table 1

Table 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 breakdown etc.	1500V a.c. shall be applied for 1 min between the contacts. Trip current :0.5mA.
Contact resistance	Between external contacts: 3mΩ or less Between center contacts: 6mΩ or less	Measurement shall be made between the contacts, with engaging a plug and a receptacle. (1kHz:1mA a.c.)
Return loss	26.4dB or more	An applied cable shall be attached to the plug, then it shall be terminated with 75 Ω. The measurement frequency up to 3GHz.
Voltage standing wave ratio (V.S.W.R)	1.1 or less	

4.2 Mechanical characteristics As shown in Table 2

Table 2

Items	Specified values	Test methods
Intermatability	To be engaged without any abnormality.	The plug and an applicable receptacle shall be engaged.
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	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 250N and rotation strength of 2.5N·m shall be applied.
Cable connecting force	200N or more for 1.0/4.8AF	An applied cable shall be attached to the plug, after which tensile strength shall be applied.
Mechanical operation (repeated)	Contact resistance: 10mΩ or less	The endurance test consists of repeated engagement and separation of connector pairs. The measurement shall be made after 5000 cycles.

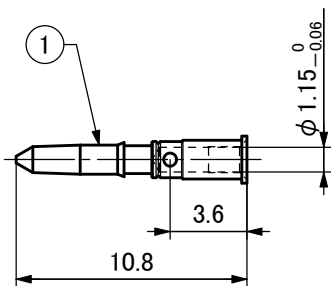
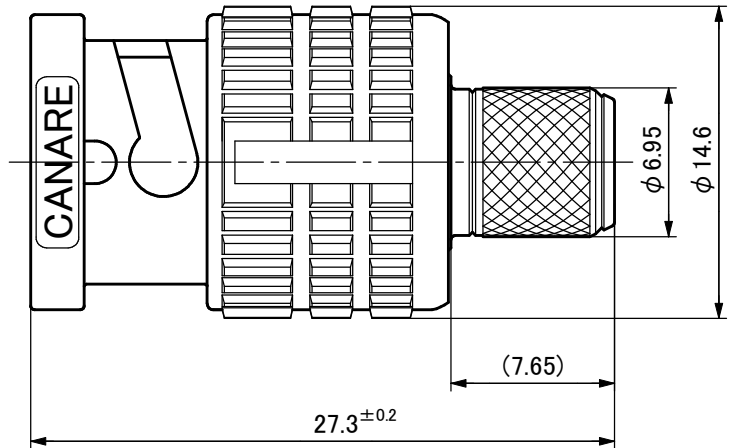
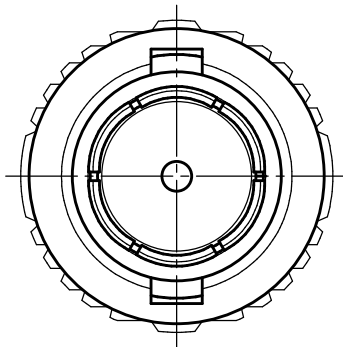
4.3 Environmental characteristics As shown in Table 3

Table 3

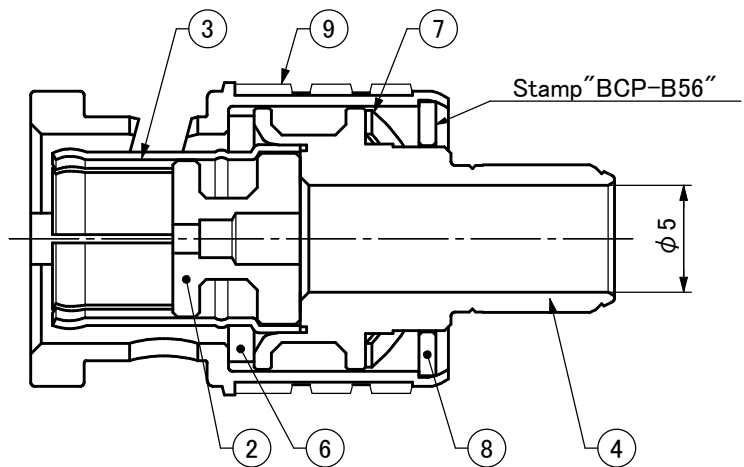
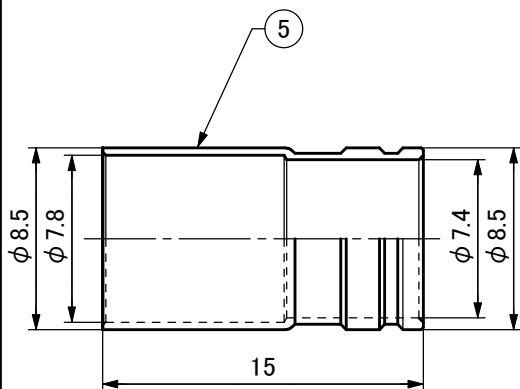
Items	Specified values	Test methods
Corrosion resistance (Salt mist)	Appearance: By visual inspection, without noticeable rust. Contact resistance: 50mΩ or less	The connector shall be subjected continuously to a fine mist of salt solution at a temperature of 35±2 °C for 48h (Salt solution concentration: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

External Appearance



Construction



9	Coupling Sleeve	1	Zinc Alloy Die Casting	Nickel Plating					
8	Washer	1	Brass	Nickel Plating					
7	Spring Washer	1	Beryllium Copper	Nickel Plating					
6	Gasket	1	Silicone Rubber	—					
5	Crimp Sleeve	1	Brass	Tin Plating					
4	Body	1	Brass	Nickel Plating					
3	Outer Contact	1	Beryllium Copper	Nickel Plating					
2	Insulator	1	PTFE	—					
1	Male Center Contact	1	Brass	Gold Plating					
No.	Name of Parts	Pc(s).	Material	Finish					
Title	CRIMP TYPE	PJTN	Unit	Sc.	Tol.	Date	Ver. 1.0	Model	No.
	75 Ω BNC PLUG		mm	2√2:1	±0.1	2013-02-21		BCP-B56	BL460

PRODUCT SPECIFICATIONS

(BCP-B5F)

SAB400

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

- (1) **Product name** Crimp type 75 Ω BNC plug
 (2) **Model name** BCP-B5F
 (3) **Applicable standard** IEC*¹ 61169-8, JIS*² C 5412
 (4) **Nominal impedance** 75 Ω unbalanced
 (5) **Construction** As shown in the drawing (BL400).
 (6) **Weight** Approx 12g (including center contact and crimp sleeve)
 (7) **Designation** Stamp model name (BCP-B5F) on washer and brand name (CANARE) on coupling sleeve.
 (8) **Packaging** 100pcs/package (220 x 155 x 37mm), 20pcs/package (150 x 50 x 31mm)
 (9) **Applicable cable** L-5CFB, LS-5CFB, V*-5CFB (CANARE)
 (10) **Crimp tool** Frame: TC-1, Die: TCD-55FA, TCD-5CF

3. Ratings

- (1) **Operating temperature** -40 °C ~ +85 °C
 (2) **Operating humidity** ~ 90%

*¹International Electrotechnical Commission*²The Japanese Electric Wire & Cable Maker's Association Standard

4. Characteristics

4.1 Electrical characteristics As shown in Table 1

Table 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 breakdown etc.	1500V a.c. shall be applied for 1 min between the contacts. Trip current :0.5mA.
Contact resistance	Between external contacts: 3mΩ or less Between center contacts: 6mΩ or less	Measurement shall be made between the contacts, with engaging a plug and a receptacle. (1kHz:1mA a.c.)
Return loss	26.4dB or more	An applied cable shall be attached to the plug, then it shall be terminated with 75 Ω. The measurement frequency up to 3GHz.
Voltage standing wave ratio (V.S.W.R)	1.1 or less	

4.2 Mechanical characteristics As shown in Table 2

Table 2

Items	Specified values	Test methods
Intermatability	To be engaged without any abnormality.	The plug and an applicable receptacle shall be engaged.
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	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 250N and rotation strength of 2.5N·m shall be applied.
Cable connecting force	196N or more for L-5CFB	An applied cable shall be attached to the plug, after which tensile strength shall be applied.
Mechanical operation (repeated)	Contact resistance: 10mΩ or less	The endurance test consists of repeated engagement and separation of connector pairs. The measurement shall be made after 5000 cycles.

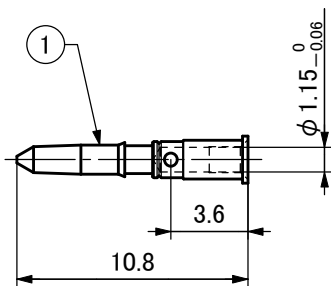
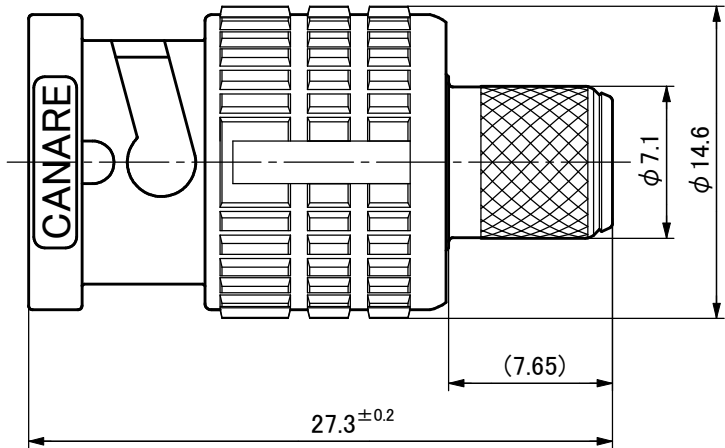
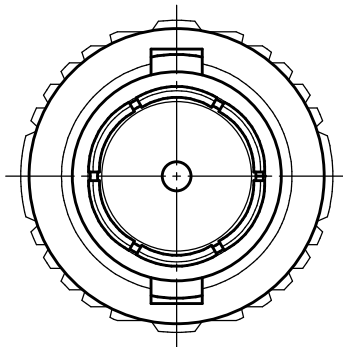
4.3 Environmental characteristics As shown in Table 3

Table 3

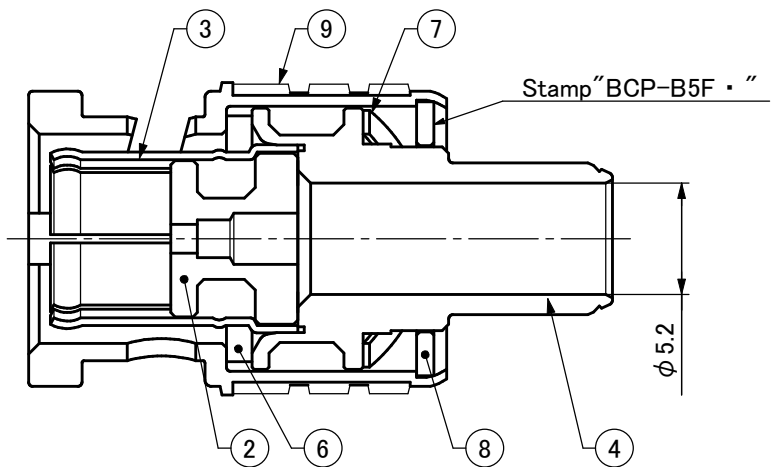
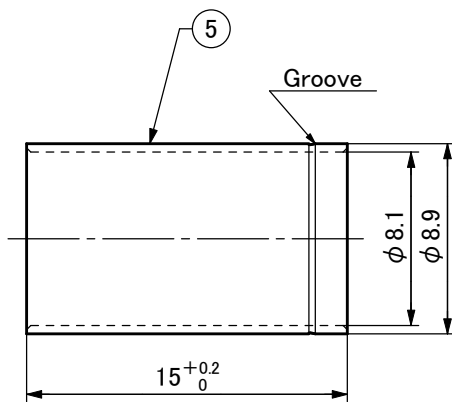
Items	Specified values	Test methods
Corrosion resistance (Salt mist)	Appearance: By visual inspection, without noticeable rust. Contact resistance: 50mΩ or less	The connector shall be subjected continuously to a fine mist of salt solution at a temperature of 35±2 °C for 48h (Salt solution concentration: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

External Appearance



Construction



9	Coupling Sleeve	1	Zinc Alloy Die Casting	Nickel Plating					
8	Washer	1	Brass	Nickel Plating					
7	Spring Washer	1	Beryllium Copper	Nickel Plating					
6	Gasket	1	Silicone Rubber	—					
5	Crimp Sleeve	1	Copper	Tin Plating					
4	Body	1	Brass	Nickel Plating					
3	Outer Contact	1	Beryllium Copper	Nickel Plating					
2	Insulator	1	PTFE	—					
1	Male Center Contact	1	Brass	Gold Plating					
No.	Name of Parts	Pc(s).	Material	Finish					
Title	CRIMP TYPE	PJTN	Unit	Sc.	Tol.	Date	Ver. 1.0	Model	No.
	75 Ω BNC PLUG		mm	2√2:1	±0.1	2011-03-25		BCP-B5F	BL400

PRODUCT SPECIFICATIONS

(BCP-B51F)

SAB402

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

- (1) **Product name** Crimp type 75 Ω BNC plug
 (2) **Model name** BCP-B51F
 (3) **Applicable standard** IEC*¹ 61169-8, JIS*² C 5412
 (4) **Nominal impedance** 75 Ω unbalanced
 (5) **Construction** As shown in the drawing (BL402).
 (6) **Weight** Approx 12g (including center contact and crimp sleeve)
 (7) **Designation** Stamp model name (BCP-B51F) on washer and brand name (CANARE) on 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)
 (9) **Applicable cable** L-5CFW (CANARE)
 (10) **Crimp tool** Frame: TC-1, Die: TCD-55FA, TCD-5CF

3. Ratings

- (1) **Operating temperature** -40 °C ~ +85 °C
 (2) **Operating humidity** ~ 90%
 *¹International Electrotechnical Commission
 *²Japanese Industrial Standard

4. Characteristics

4.1 Electrical characteristics As shown in Table 1

Table 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 breakdown etc.	1500V a.c. shall be applied for 1 min between the contacts. Trip current :0.5mA.
Contact resistance	Between external contacts: 3mΩ or less Between center contacts: 6mΩ or less	Measurement shall be made between the contacts, with engaging a plug and a receptacle. (1kHz:1mA a.c.)
Return loss	26.4dB or more	An applied cable shall be attached to the plug, then it shall be terminated with 75 Ω. The measurement frequency up to 3GHz.
Voltage standing wave ratio (V.S.W.R)	1.1 or less	

4.2 Mechanical characteristics As shown in Table 2

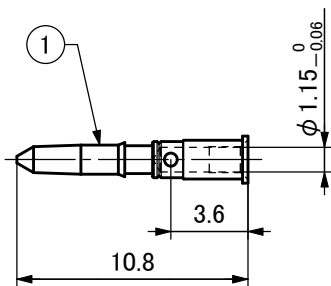
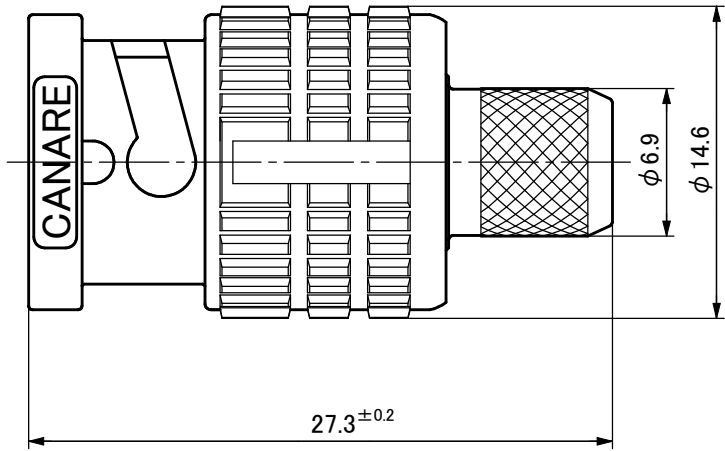
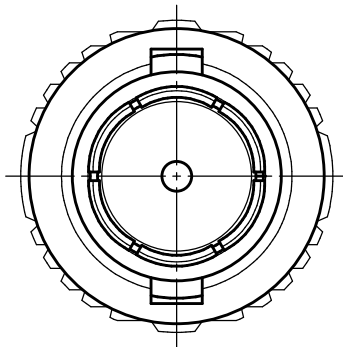
Table 2		
Items	Specified values	Test methods
Intermatability	To be engaged without any abnormality.	The plug and an applicable receptacle shall be engaged.
Fixing force of contact with lock mechanism	No displacement more than 0.5 mm.	Tensile strength of 19.6N shall be applied to the axial direction.
Strength of coupling mechanism	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 250N and rotation strength of 2.5N·m shall be applied.
Cable connecting force	245N or more for L-5CFW	An applied cable shall be attached to the plug, after which tensile strength shall be applied.
Mechanical operation (repeated)	Contact resistance: 10mΩ 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

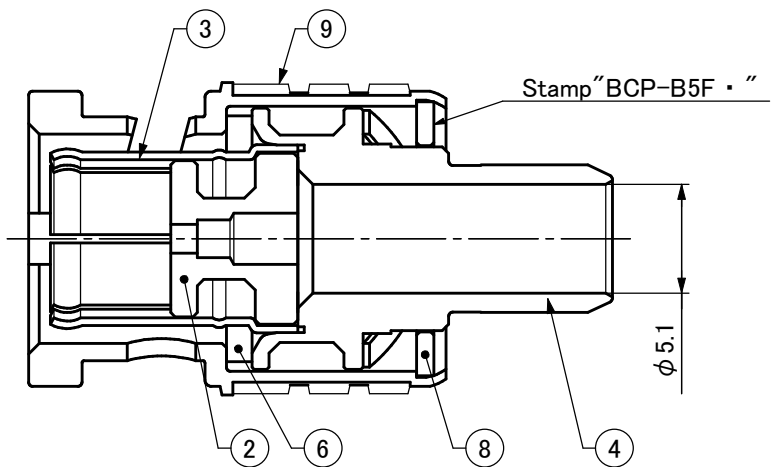
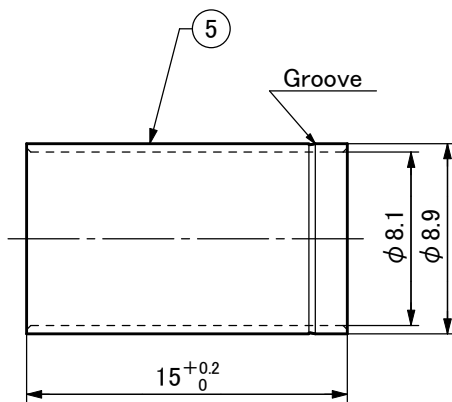
Table 3		
Items	Specified values	Test methods
Corrosion resistance (Salt mist)	Appearance: By visual inspection, without noticeable rust. Contact resistance: 50mΩ or less	The connector shall be subjected continuously to a fine mist of salt solution at a temperature of 35±2 °C for 48h (Salt solution concentration: 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).

External Appearance



Construction



9	Coupling Sleeve	1	Zinc Alloy Die Casting	Nickel Plating
8	Washer	1	Brass	Nickel Plating
7	Spring Washer	1	Beryllium Copper	Nickel Plating
6	Gasket	1	Silicone Rubber	—
5	Crimp Sleeve	1	Copper	Tin Plating
4	Body	1	Brass	Nickel Plating
3	Outer Contact	1	Beryllium Copper	Nickel Plating
2	Insulator	1	PTFE	—
1	Male Center Contact	1	Brass	Gold Plating
No.	Name of Parts	Pc(s).	Material	Finish
Title CRIMP TYPE		PJTN	Unit Sc.	Date Ver. 1.0
75 Ω BNC PLUG			mm 2√2:1	2011-03-25
			Tol. ±0.1	Model BCP-B51F
				No. BL402

PRODUCT SPECIFICATIONS

(BCP-A25F)

SAB394
Ver. 1.0

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 |
| (2) Model name | BCP-A25F |
| (3) Applicable standard | IEC*1 61169-8, JIS*2 C 5412 |
| (4) Nominal impedance | 75 Ω unbalanced |
| (5) Construction | As shown in the drawing (BL394). |
| (6) Weight | Approx 12.5g (including center contact and crimp sleeve) |
| (7) Designation | Stamp model name (BCP-A25F) on washer and brand name (CANARE) on coupling sleeve. |
| (8) Packaging | 100pcs/package (220 x 155 x 37mm), 20pcs/package (150 x 50 x 31mm) |
| (9) Applicable cable | L-2.5CFB (CANARE), 1855A (Belden) |
| (10) Crimp tool | Frame: TC-1, Die: TCD-35CA |

3. Ratings

- | | |
|---------------------------|-----------------|
| (1) Operating temperature | -40 °C ~ +85 °C |
| (2) Operating humidity | ~ 90% |
- *1 International Electrotechnical Commission
*2 Japanese Industrial Standard

4. Characteristics

4.1 Electrical characteristics As shown in Table 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 breakdown etc.	1500V a.c. shall be applied for 1 min between the contacts. Trip current :0.5mA.
Contact resistance	Between external contacts: 3mΩ or less Between center contacts: 6mΩ or less	Measurement shall be made between the contacts, with engaging a plug and a receptacle. (1kHz:1mA a.c.)
Return loss	20.8dB or more	An applied cable shall be attached to the plug, then it shall be terminated with 75 Ω. The measurement frequency up to 2GHz.
Voltage standing wave ratio (V.S.W.R)	1.2 or less	

4.2 Mechanical characteristics As shown in Table 2

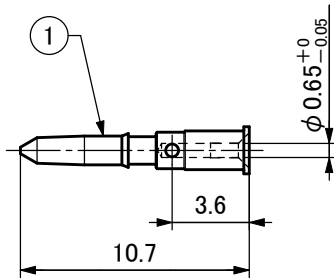
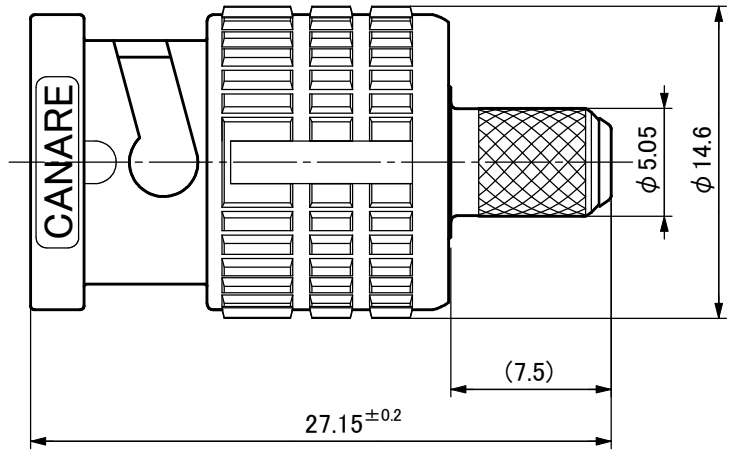
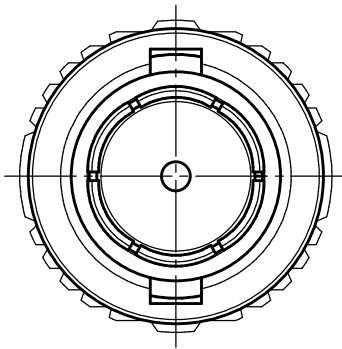
Items	Specified values	Test methods
Intermatability	To be engaged without any abnormality.	The plug and an applicable receptacle shall be engaged.
Fixing force of contact with lock mechanism	No displacement more than 0.5 mm.	Tensile strength of 19.6N shall be applied to the axial direction.
Strength of coupling mechanism	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 250N and rotation strength of 2.5N·m shall be applied.
Cable connecting force	127.4N or more for L-2.5CFB	An applied cable shall be attached to the plug, after which tensile strength shall be applied.
Mechanical operation (repeated)	Contact resistance: 10mΩ 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

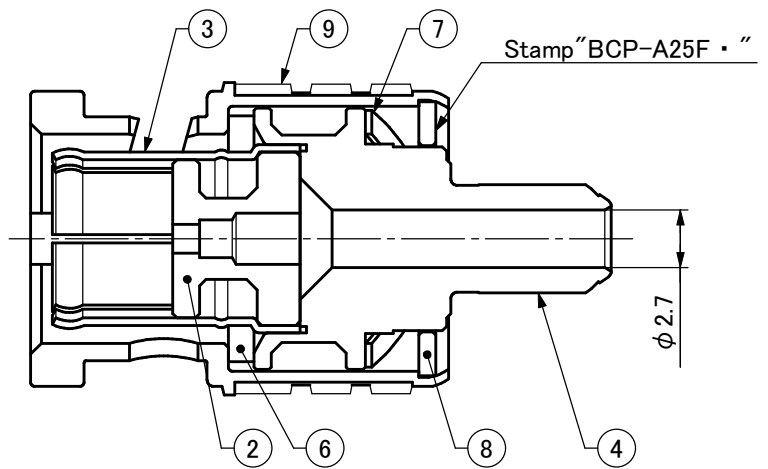
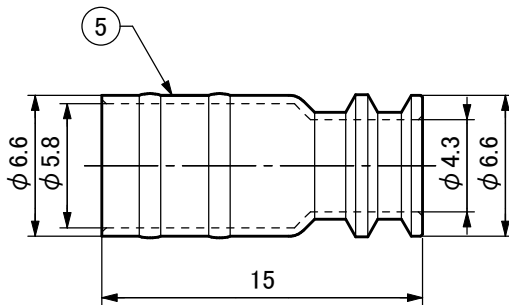
Items	Specified values	Test methods
Corrosion resistance (Salt mist)	Appearance: By visual inspection, without noticeable rust. Contact resistance: 50mΩ or less	The connector shall be subjected continuously to a fine mist of salt solution at a temperature of 35±2 °C for 48h (Salt solution concentration: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

External Appearance



Construction



9	Coupling Sleeve	1	Zinc Alloy Die Casting	Nickel Plating					
8	Washer	1	Brass	Nickel Plating					
7	Spring Washer	1	Beryllium Copper	Nickel Plating					
6	Gasket	1	Silicone Rubber	—					
5	Crimp Sleeve	1	Brass	Tin Plating					
4	Body	1	Brass	Nickel Plating					
3	Outer Contact	1	Beryllium Copper	Nickel Plating					
2	Insulator	1	PTFE	—					
1	Male Center Contact	1	Brass	Gold Plating					
No.	Name of Parts	Pc(s).	Material	Finish					
Title	CRIMP TYPE	PJTN	Unit	Sc.	Tol.	Date	Ver. 1.0	Model	No.
	75 Ω BNC PLUG		mm	2√2:1	±0.1	2011-05-31		BCP-A25F	BL394

PRODUCT SPECIFICATIONS

(BCP-A25)

SAB412

Ver. 1.0

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
 (2) **Model name** BCP-A25
 (3) **Applicable standard** IEC*¹ 61169-8, JIS*² C 5412
 (4) **Nominal impedance** 75 Ω unbalanced
 (5) **Construction** As shown in the drawing (BL412).
 (6) **Weight** Approx 12.5g (including center contact and crimp sleeve)
 (7) **Designation** Stamp model name (BCP-A25) on washer and brand name (CANARE) on coupling sleeve.
 (8) **Packaging** 100pcs/package (220 x 155 x 37mm), 20pcs/package (150 x 50 x 31mm)
 (9) **Applicable cable** L-2.5C2V (CANARE), 2.5C-2V (JIS C 3501)
 (10) **Crimp tool** Frame: TC-1, Die: TCD-35CA

3. Ratings

- (1) **Operating temperature** -40 °C ~ +85 °C
 (2) **Operating humidity** ~ 90%
- *¹International Electrotechnical Commission
 *²Japanese Industrial Standard

4. Characteristics

4.1 Electrical characteristics As shown in Table 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 breakdown etc.	1500V a.c. shall be applied for 1 min between the contacts. Trip current :0.5mA.
Contact resistance	Between external contacts: 3mΩ or less Between center contacts: 6mΩ or less	Measurement shall be made between the contacts, with engaging a plug and a receptacle. (1kHz:1mA a.c.)
Return loss	20.8dB or more	An applied cable shall be attached to the plug, then it shall be terminated with 75 Ω. The measurement frequency up to 1GHz.
Voltage standing wave ratio (V.S.W.R)	1.2 or less	

4.2 Mechanical characteristics As shown in Table 2

Items	Specified values	Test methods
Intermatability	To be engaged without any abnormality.	The plug and an applicable receptacle shall be engaged.
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	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 250N and rotation strength of 2.5N·m shall be applied.
Cable connecting force	127.4N or more for 2.5C-2V	An applied cable shall be attached to the plug, after which tensile strength shall be applied.
Mechanical operation (repeated)	Contact resistance: 10mΩ 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

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

PRODUCT SPECIFICATIONS

(BCP-A3)

SAB409

Ver. 1.0

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
 (2) **Model name** BCP-A3
 (3) **Applicable standard** IEC*¹ 61169-8, JIS*² C 5412
 (4) **Nominal impedance** 75 Ω unbalanced
 (5) **Construction** As shown in the drawing (BL409).
 (6) **Weight** Approx 12g (including center contact and crimp sleeve)
 (7) **Designation** Stamp model name (BCP-A3) on washer and brand name (CANARE) on coupling sleeve.
 (8) **Packaging** 100pcs/package (220 x 155 x 37mm), 20pcs/package (150 x 50 x 31mm)
 (9) **Applicable cable** L-3C2V, L-3C2VS, V*-3C (CANARE), 3C-2V (JIS C 3501)
 (10) **Crimp tool** Frame: TC-1, Die: TCD-35CA

3. Ratings

- (1) **Operating temperature** -40 °C ~ +85 °C
 (2) **Operating humidity** ~ 90%
- *¹International Electrotechnical Commission
 *²Japanese Industrial Standard

4. Characteristics

4.1 Electrical characteristics As shown in Table 1

Table 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 breakdown etc.	1500V a.c. shall be applied for 1 min between the contacts. Trip current :0.5mA.
Contact resistance	Between external contacts: 3mΩ or less Between center contacts: 6mΩ or less	Measurement shall be made between the contacts, with engaging a plug and a receptacle. (1kHz:1mA a.c.)
Return loss	26.4dB or more(0 ~ 2GHz) 20.8dB or more(0 ~ 3GHz)	An applied cable shall be attached to the plug, then it shall be terminated with 75 Ω.
Voltage standing wave ratio (V.S.W.R)	1.1 or less(0 ~ 2GHz) 1.2 or less(0 ~ 3GHz)	The measurement frequency up to 3GHz.

4.2 Mechanical characteristics As shown in Table 2

Table 2

Items	Specified values	Test methods
Intermatability	To be engaged without any abnormality.	The plug and an applicable receptacle shall be engaged.
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	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 250N and rotation strength of 2.5N·m shall be applied.
Cable connecting force	196N or more for L-3C2V 147N or more for L-3C2VS	An applied cable shall be attached to the plug, after which tensile strength shall be applied.
Mechanical operation (repeated)	Contact resistance: 10mΩ or less	The endurance test consists of repeated engagement and separation of connector pairs. The measurement shall be made after 5000 cycles.

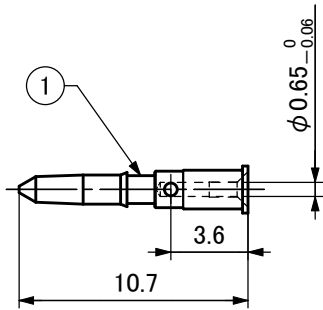
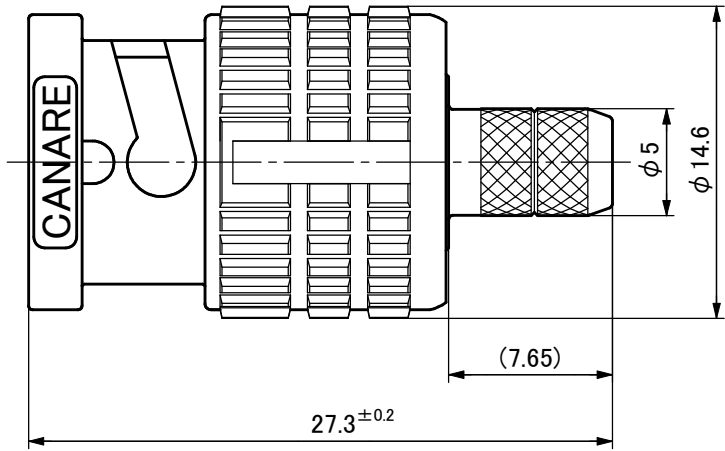
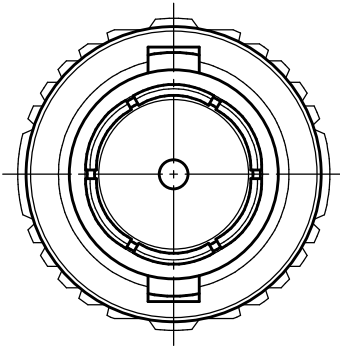
4.3 Environmental characteristics As shown in Table 3

Table 3

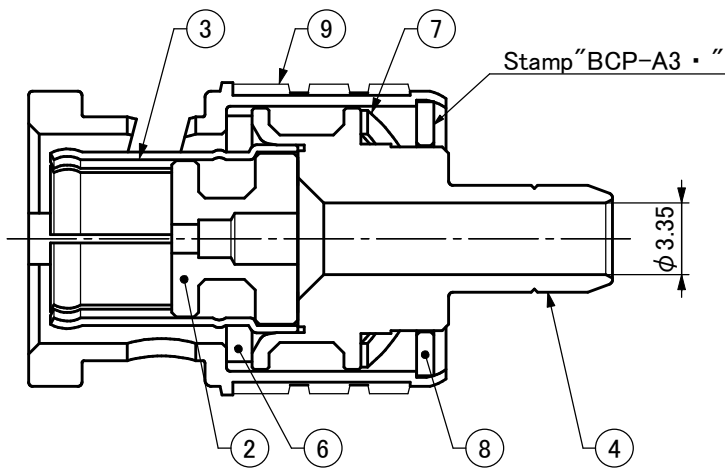
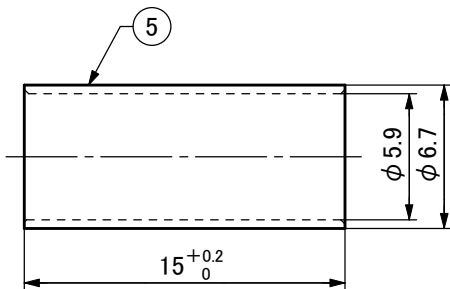
Items	Specified values	Test methods
Corrosion resistance (Salt mist)	Appearance: By visual inspection, without noticeable rust. Contact resistance: 50mΩ or less	The connector shall be subjected continuously to a fine mist of salt solution at a temperature of 35±2 °C for 48h (Salt solution concentration: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

External Appearance



Construction



9	Coupling Sleeve	1	Zinc Alloy Die Casting	Nickel Plating					
8	Washer	1	Brass	Nickel Plating					
7	Spring Washer	1	Beryllium Copper	Nickel Plating					
6	Gasket	1	Silicone Rubber	—					
5	Crimp Sleeve	1	Copper	Tin Plating					
4	Body	1	Brass	Nickel Plating					
3	Outer Contact	1	Beryllium Copper	Nickel Plating					
2	Insulator	1	PTFE	—					
1	Male Center Contact	1	Brass	Gold Plating					
No.	Name of Parts	Pc(s).	Material	Finish					
Title	CRIMP TYPE	PJTN	Unit	Sc.	Tol.	Date	Ver. 1.0	Model	No.
	75 Ω BNC PLUG		mm	2√2:1	±0.1	2011-05-31		BCP-A3	BL409

PRODUCT SPECIFICATIONS

(BCP-A32)

1/1

SAB406

Ver. 1.0

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
- (2) **Model name** BCP-A32
- (3) **Applicable standard** IEC*¹ 61169-8, JIS*² C 5412
- (4) **Nominal impedance** 75 Ω unbalanced
- (5) **Construction** As shown in the drawing (BL406).
- (6) **Weight** Approx 12g (including center contact and crimp sleeve)
- (7) **Designation** Stamp model name (BCP-A32) on washer and brand name (CANARE) on coupling sleeve.
- (8) **Packaging** 100pcs/package (220 x 155 x 37mm), 20pcs/package (150 x 50 x 31mm)
- (9) **Applicable cable** 1506A (Belden)
- (10) **Crimp tool** Frame: TC-1, Die: TCD-35CA

3. Ratings

- (1) **Operating temperature** -40 °C ~ +85 °C
 - (2) **Operating humidity** ~ 90%
- *¹International Electrotechnical Commission
*²Japanese Industrial Standard

4. Characteristics

4.1 Electrical characteristics As shown in **Table 1**

Table 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 breakdown etc.	1500V a.c. shall be applied for 1 min between the contacts. Trip current :0.5mA.
Contact resistance	Between external contacts: 3mΩ or less Between center contacts: 6mΩ or less	Measurement shall be made between the contacts, with engaging a plug and a receptacle. (1kHz:1mA a.c.)
Return loss	26.4dB or more(0 ~ 2GHz) 20.8dB or more(0 ~ 3GHz)	An applied cable shall be attached to the plug, then it shall be terminated with 75 Ω.
Voltage standing wave ratio (V.S.W.R)	1.1 or less(0 ~ 2GHz) 1.2 or less(0 ~ 3GHz)	The measurement frequency up to 3GHz.

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

Table 2

Items	Specified values	Test methods
Intermatability	To be engaged without any abnormality.	The plug and an applicable receptacle shall be engaged.
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	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 250N and rotation strength of 2.5N·m shall be applied.
Cable connecting force	196N or more for 1506A	An applied cable shall be attached to the plug, after which tensile strength shall be applied.
Mechanical operation (repeated)	Contact resistance: 10mΩ or less	The endurance test consists of repeated engagement and separation of connector pairs. The measurement shall be made after 5000 cycles.

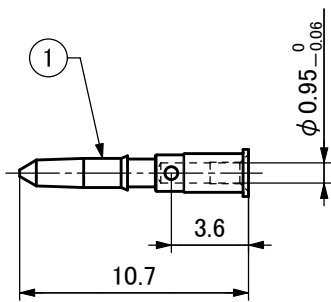
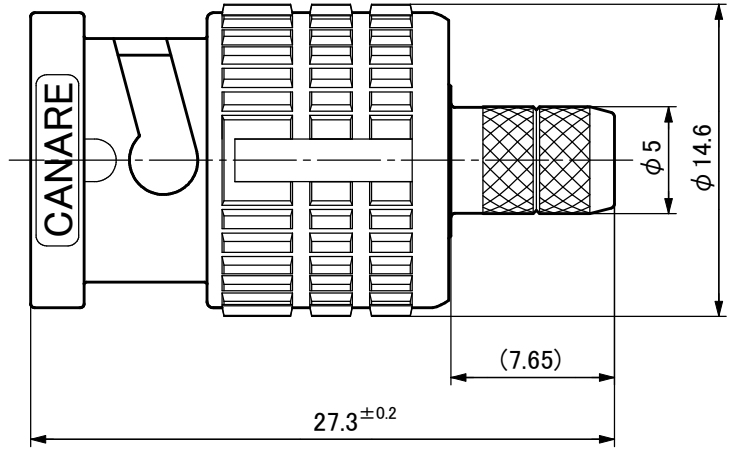
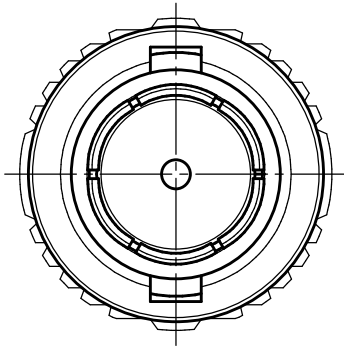
4.3 Environmental characteristics As shown in **Table 3**

Table 3

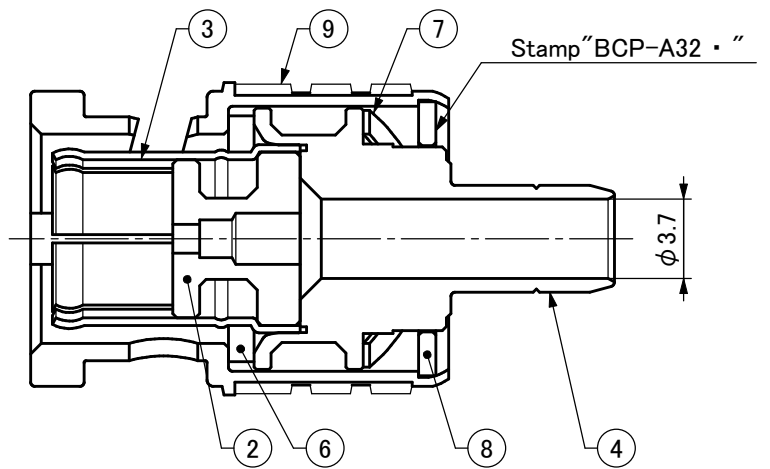
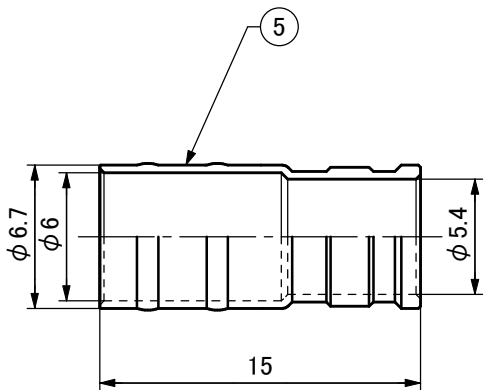
Items	Specified values	Test methods
Corrosion resistance (Salt mist)	Appearance: By visual inspection, without noticeable rust. Contact resistance: 50mΩ or less	The connector shall be subjected continuously to a fine mist of salt solution at a temperature of 35±2 °C for 48h (Salt solution concentration: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

External Appearance



Construction



9	Coupling Sleeve	1	Zinc Alloy Die Casting	Nickel Plating
8	Washer	1	Brass	Nickel Plating
7	Spring Washer	1	Beryllium Copper	Nickel Plating
6	Gasket	1	Silicone Rubber	—
5	Crimp Sleeve	1	Brass	Tin Plating
4	Body	1	Brass	Nickel Plating
3	Outer Contact	1	Beryllium Copper	Nickel Plating
2	Insulator	1	PTFE	—
1	Male Center Contact	1	Brass	Gold Plating
No.	Name of Parts	Pc(s).	Material	Finish
Title CRIMP TYPE		PJTN	Unit Sc.	Date Ver. 1.0
75 Ω BNC PLUG			mm 2√2:1	2011-05-31
			Tol. ±0.1	Model BCP-A32
				No. BL406

PRODUCT SPECIFICATIONS

(BCP-A31)

SAB413

Ver. 1.0

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
 (2) **Model name** BCP-A31
 (3) **Applicable standard** IEC*1 61169-8, JIS*2 C 5412
 (4) **Nominal impedance** 75 Ω unbalanced
 (5) **Construction** As shown in the drawing (BL413).
 (6) **Weight** Approx 12.5g (including center contact and crimp sleeve)
 (7) **Designation** Stamp model name (BCP-A31) on washer and brand name (CANARE) on coupling sleeve.
 (8) **Packaging** 100pcs/package (220 x 155 x 37mm), 20pcs/package (150 x 50 x 31mm)
 (9) **Applicable cable** L-3C2W (CANARE), 3C-2W
 (10) **Crimp tool** Frame: TC-1, Die: TCD-31C

3. Ratings

- (1) **Operating temperature** -40 °C ~ +85 °C
 (2) **Operating humidity** ~ 90%
- *1 International Electrotechnical Commission
 *2 Japanese Industrial Standard

4. Characteristics

4.1 Electrical characteristics As shown in Table 1

Table 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 breakdown etc.	1500V a.c. shall be applied for 1 min between the contacts. Trip current :0.5mA.
Contact resistance	Between external contacts: 3mΩ or less Between center contacts: 6mΩ or less	Measurement shall be made between the contacts, with engaging a plug and a receptacle. (1kHz:1mA a.c.)
Return loss	26.4dB or more(0 ~ 2GHz) 20.8dB or more(0 ~ 3GHz)	An applied cable shall be attached to the plug, then it shall be terminated with 75 Ω.
Voltage standing wave ratio (V.S.W.R)	1.1 or less(0 ~ 2GHz) 1.2 or less(0 ~ 3GHz)	The measurement frequency up to 3GHz.

4.2 Mechanical characteristics As shown in Table 2

Table 2

Items	Specified values	Test methods
Intermatability	To be engaged without any abnormality.	The plug and an applicable receptacle shall be engaged.
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	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 250N and rotation strength of 2.5N·m shall be applied.
Cable connecting force	245N or more for L-3C2W	An applied cable shall be attached to the plug, after which tensile strength shall be applied.
Mechanical operation (repeated)	Contact resistance: 10mΩ or less	The endurance test consists of repeated engagement and separation of connector pairs. The measurement shall be made after 5000 cycles.

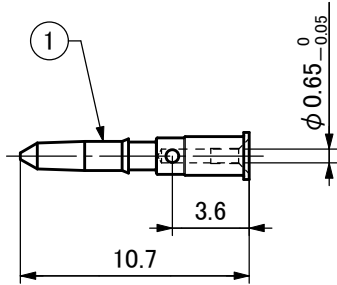
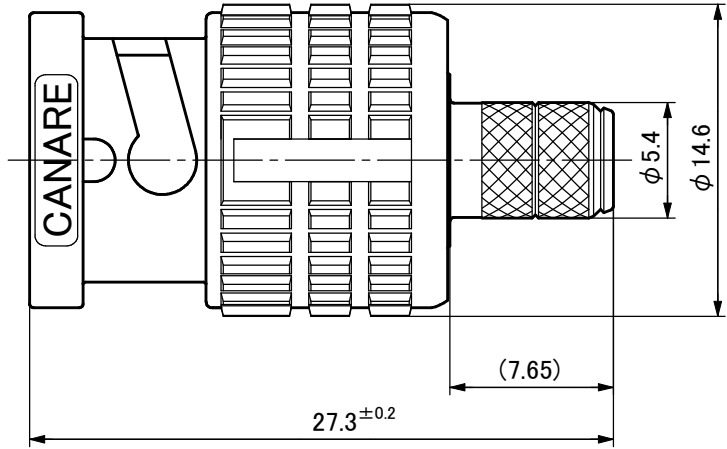
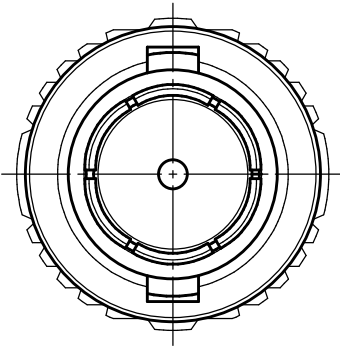
4.3 Environmental characteristics As shown in Table 3

Table 3

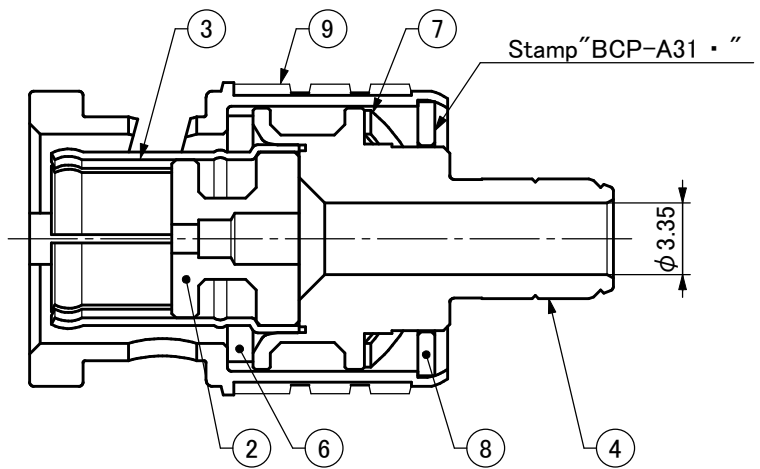
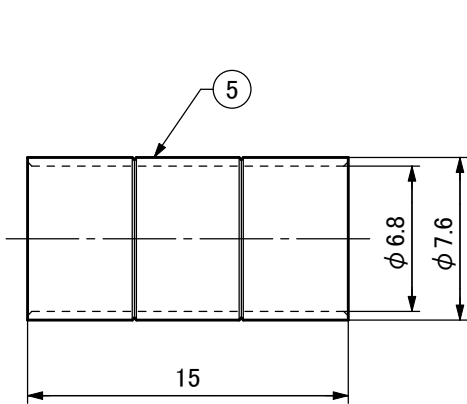
Items	Specified values	Test methods
Corrosion resistance (Salt mist)	Appearance: By visual inspection, without noticeable rust. Contact resistance: 50mΩ or less	The connector shall be subjected continuously to a fine mist of salt solution at a temperature of 35±2 °C for 48h (Salt solution concentration: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

External Appearance



Construction



9	Coupling Sleeve	1	Zinc Alloy Die Casting	Nickel Plating					
8	Washer	1	Brass	Nickel Plating					
7	Spring Washer	1	Beryllium Copper	Nickel Plating					
6	Gasket	1	Silicone Rubber	—					
5	Crimp Sleeve	1	Copper	Tin Plating					
4	Body	1	Brass	Nickel Plating					
3	Outer Contact	1	Beryllium Copper	Nickel Plating					
2	Insulator	1	PTFE	—					
1	Male Center Contact	1	Brass	Gold Plating					
No.	Name of Parts	Pc(s).	Material	Finish					
Title	CRIMP TYPE	PJTN	Unit	Sc.	Tol.	Date	Ver. 1.0	Model	No.
	75 Ω BNC PLUG		mm	2√2:1	±0.1	2011-05-31		BCP-A31	BL413

PRODUCT SPECIFICATIONS

(BCP-A3AHD)

1/1

SAB550

Ver. 1.0

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
- (2) **Model name** BCP-A3AHD
- (3) **Applicable standard** IEC*¹ 61169-8, JIS*² C 5412
- (4) **Nominal impedance** 75 Ω unbalanced
- (5) **Construction** As shown in the drawing (BL438).
- (6) **Weight** Approx 12g (including center contact and crimp sleeve)
- (7) **Designation** Stamp model name (BCP-A3AHD) on washer and brand name (CANARE) on coupling sleeve.
- (8) **Packaging** 100pcs/package (220 x 155 x 37mm), 20pcs/package (150 x 50 x 31mm)
- (9) **Applicable cable** L-3C-AHD (CANARE)
- (10) **Crimp tool** Frame: TC-1, Die: TCD-35CA

3. Ratings

- (1) **Operating temperature** -40 °C ~ +85 °C
 - (2) **Operating humidity** ~ 90%
- *¹International Electrotechnical Commission
*²Japanese Industrial Standard

4. Characteristics

4.1 Electrical characteristics As shown in **Table 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 breakdown etc.	1500V a.c. shall be applied for 1 min between the contacts. Trip current :0.5mA.
Contact resistance	Between external contacts: 3mΩ or less Between center contacts: 6mΩ or less	Measurement shall be made between the contacts, with engaging a plug and a receptacle. (1kHz:1mA a.c.)
Return loss	26.4dB or more(0 ~ 2GHz) 20.8dB or more(0 ~ 3GHz)	An applied cable shall be attached to the plug, then it shall be terminated with 75 Ω.
Voltage standing wave ratio (V.S.W.R)	1.1 or less(0 ~ 2GHz) 1.2 or less(0 ~ 3GHz)	The measurement frequency up to 3GHz.

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

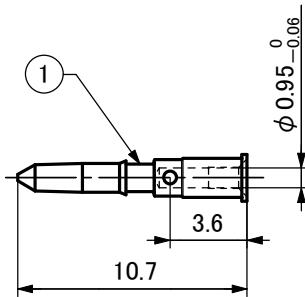
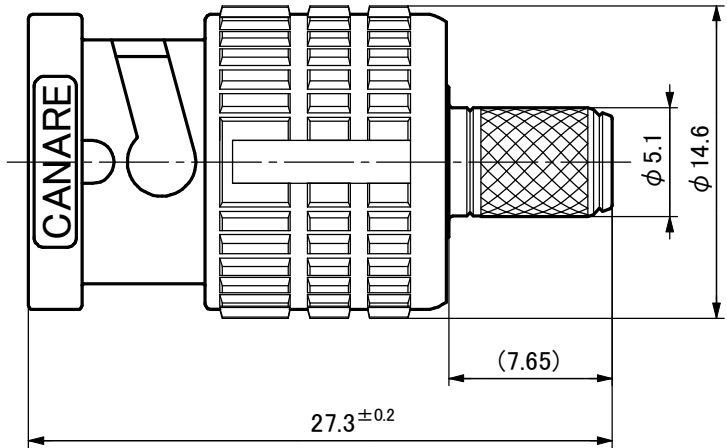
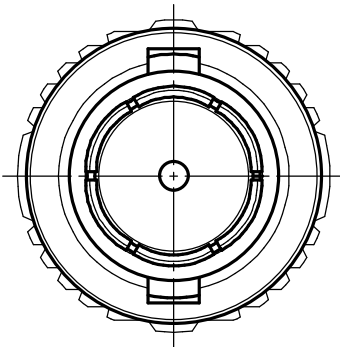
Items	Specified values	Test methods
Intermatability	To be engaged without any abnormality.	The plug and an applicable receptacle shall be engaged.
Fixing force of contact with lock mechanism	No displacement more than 0.5 mm.	Tensile strength of 19.6N shall be applied to the axial direction.
Strength of coupling mechanism	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 250N and rotation strength of 2.5N·m shall be applied.
Cable connecting force	150N or more for L-3C-AHD	An applied cable shall be attached to the plug, after which tensile strength shall be applied.
Mechanical operation (repeated)	Contact resistance: 10mΩ 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**

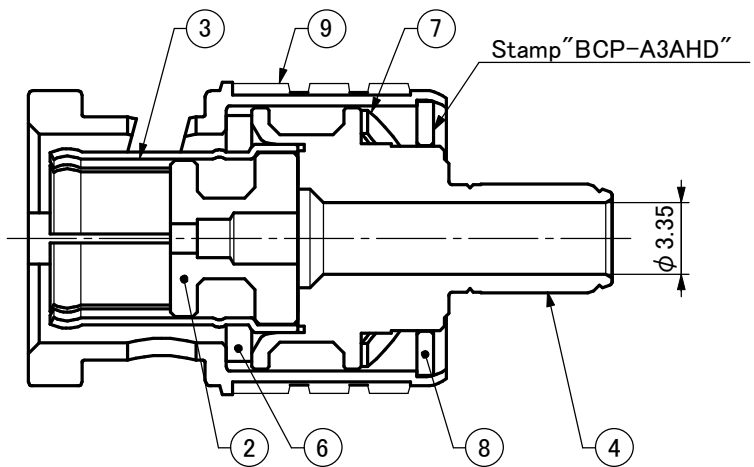
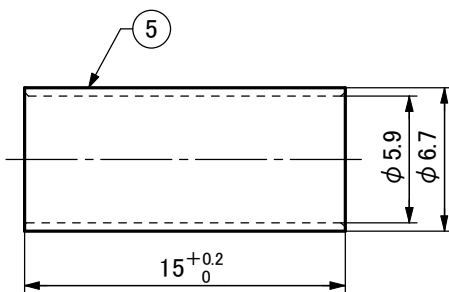
Items	Specified values	Test methods
Corrosion resistance (Salt mist)	Appearance: By visual inspection, without noticeable rust. Contact resistance: 50mΩ or less	The connector shall be subjected continuously to a fine mist of salt solution at a temperature of 35±2 °C for 48h (Salt solution concentration: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

External Appearance



Construction



9	Coupling Sleeve	1	Zinc Alloy Die Casting	Nickel Plating					
8	Washer	1	Brass	Nickel Plating					
7	Spring Washer	1	Beryllium Copper	Nickel Plating					
6	Gasket	1	Silicone Rubber	—					
5	Crimp Sleeve	1	Copper	Tin Plating					
4	Body	1	Brass	Nickel Plating					
3	Outer Contact	1	Beryllium Copper	Nickel Plating					
2	Insulator	1	PTFE	—					
1	Male Center Contact	1	Brass	Gold Plating					
No.	Name of Parts	Pc(s).	Material	Finish					
Title	CRIMP TYPE	PJTN	Unit	Sc.	Tol.	Date	Ver. 1.0	Model	No.
	75Ω BNC PLUG		mm	2√2:1	±0.1	2018-10-19		BCP-A3AHD	BL550

PRODUCT SPECIFICATIONS

(BCP-A3F)

1/1

SAB438

Ver. 1.0

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
- (2) **Model name** BCP-A3F
- (3) **Applicable standard** IEC*¹ 61169-8, JIS*² C 5412
- (4) **Nominal impedance** 75 Ω unbalanced
- (5) **Construction** As shown in the drawing (BL438).
- (6) **Weight** Approx 12g (including center contact and crimp sleeve)
- (7) **Designation** Stamp model name (BCP-A3F) on washer and brand name (CANARE) on coupling sleeve.
- (8) **Packaging** 100pcs/package (220 x 155 x 37mm), 20pcs/package (150 x 50 x 31mm)
- (9) **Applicable cable** L-3CFB,LS-3CFB,V*-3CFB (CANARE)
- (10) **Crimp tool** Frame: TC-1, Die: TCD-35CA

3. Ratings

- (1) **Operating temperature** -40 °C ~ +85 °C
 - (2) **Operating humidity** ~ 90%
- *¹International Electrotechnical Commission
*²Japanese Industrial Standard

4. Characteristics

4.1 Electrical characteristics As shown in **Table 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 breakdown etc.	1500V a.c. shall be applied for 1 min between the contacts. Trip current :0.5mA.
Contact resistance	Between external contacts: 3mΩ or less Between center contacts: 6mΩ or less	Measurement shall be made between the contacts, with engaging a plug and a receptacle. (1kHz:1mA a.c.)
Return loss	26.4dB or more(0 ~ 2GHz) 20.8dB or more(0 ~ 3GHz)	An applied cable shall be attached to the plug, then it shall be terminated with 75 Ω.
Voltage standing wave ratio (V.S.W.R)	1.1 or less(0 ~ 2GHz) 1.2 or less(0 ~ 3GHz)	The measurement frequency up to 3GHz.

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

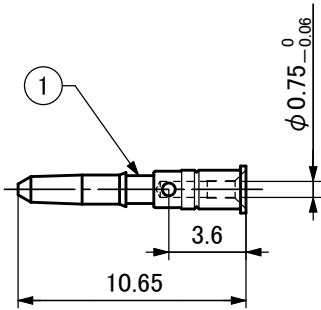
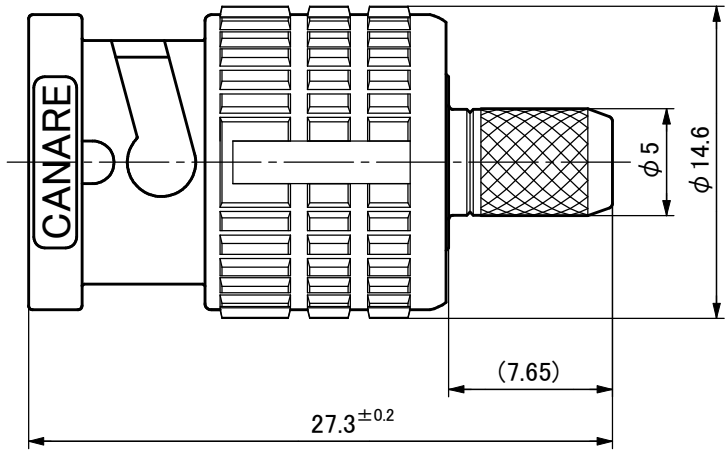
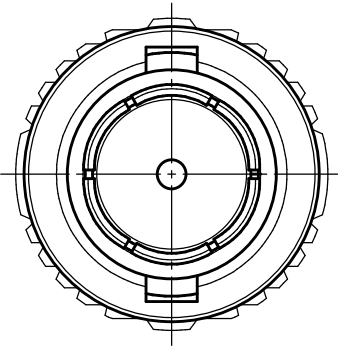
Items	Specified values	Test methods
Intermatability	To be engaged without any abnormality.	The plug and an applicable receptacle shall be engaged.
Fixing force of contact with lock mechanism	No displacement more than 0.5 mm.	Tensile strength of 19.6N shall be applied to the axial direction.
Strength of coupling mechanism	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 250N and rotation strength of 2.5N·m shall be applied.
Cable connecting force	196N or more for L-3CFB 147N or more for LS-3CFB	An applied cable shall be attached to the plug, after which tensile strength shall be applied.
Mechanical operation (repeated)	Contact resistance: 10mΩ 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**

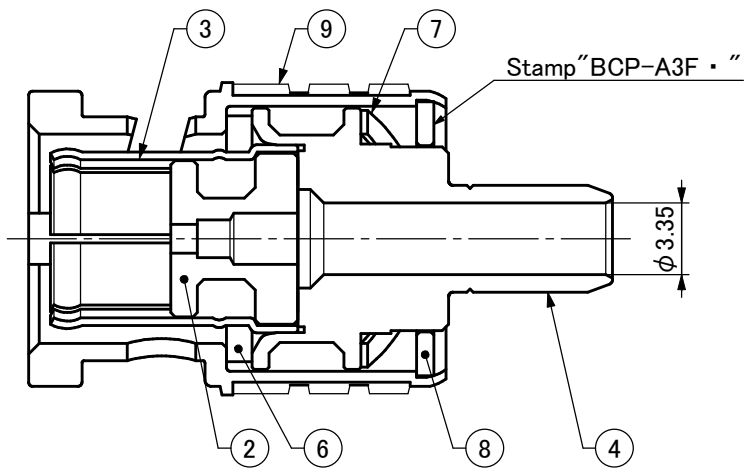
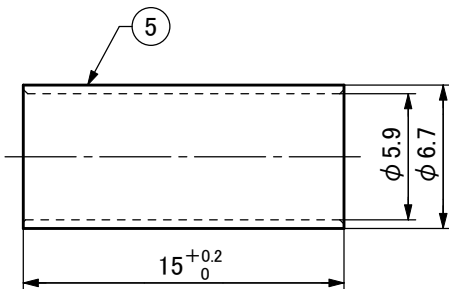
Items	Specified values	Test methods
Corrosion resistance (Salt mist)	Appearance: By visual inspection, without noticeable rust. Contact resistance: 50mΩ or less	The connector shall be subjected continuously to a fine mist of salt solution at a temperature of 35±2 °C for 48h (Salt solution concentration: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

External Appearance



Construction



9	Coupling Sleeve	1	Zinc Alloy Die Casting	Nickel Plating					
8	Washer	1	Brass	Nickel Plating					
7	Spring Washer	1	Beryllium Copper	Nickel Plating					
6	Gasket	1	Silicone Rubber	—					
5	Crimp Sleeve	1	Copper	Tin Plating					
4	Body	1	Brass	Nickel Plating					
3	Outer Contact	1	Beryllium Copper	Nickel Plating					
2	Insulator	1	PTFE	—					
1	Male Center Contact	1	Brass	Gold Plating					
No.	Name of Parts	Pc(s).	Material	Finish					
Title	CRIMP TYPE	PJTN	Unit	Sc.	Tol.	Date	Ver. 1.0	Model	No.
	75 Ω BNC PLUG		mm	2√2:1	±0.1	2011-11-08		BCP-A3F	BL438

PRODUCT SPECIFICATIONS

(BCP-A4)

SAB410

Ver. 1.0

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 |
| (2) Model name | BCP-A4 |
| (3) Applicable standard | IEC* ¹ 61169-8, JIS* ² C 5412 |
| (4) Nominal impedance | 75 Ω unbalanced |
| (5) Construction | As shown in the drawing (BL410). |
| (6) Weight | Approx 12g (including center contact and crimp sleeve) |
| (7) Designation | Stamp model name (BCP-A4) on washer and brand name (CANARE) on coupling sleeve. |
| (8) Packaging | 100pcs/package (220 x 155 x 37mm), 20pcs/package (150 x 50 x 31mm) |
| (9) Applicable cable | LV-61S (CANARE), RG-59B/u (MIL* ³ -C-17) |
| (10) Crimp tool | Frame: TC-1, Die: TCD-451CA, TCD-4CA |

3. Ratings

- | | |
|----------------------------------|-----------------|
| (1) Operating temperature | -40 °C ~ +85 °C |
| (2) Operating humidity | ~ 90% |
- *¹International Electrotechnical Commission
*²Japanese Industrial Standard
*³Military Standard

4. Characteristics

4.1 Electrical characteristics As shown in Table 1

Table 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 breakdown etc.	1500V a.c. shall be applied for 1 min between the contacts. Trip current :0.5mA.
Contact resistance	Between external contacts: 3mΩ or less Between center contacts: 6mΩ or less	Measurement shall be made between the contacts, with engaging a plug and a receptacle. (1kHz:1mA a.c.)
Return loss	20.8dB or more	An applied cable shall be attached to the plug, then it shall be terminated with 75 Ω. The measurement frequency up to 3GHz.
Voltage standing wave ratio (V.S.W.R)	1.2 or less	

4.2 Mechanical characteristics As shown in Table 2

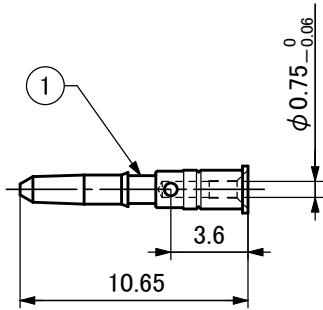
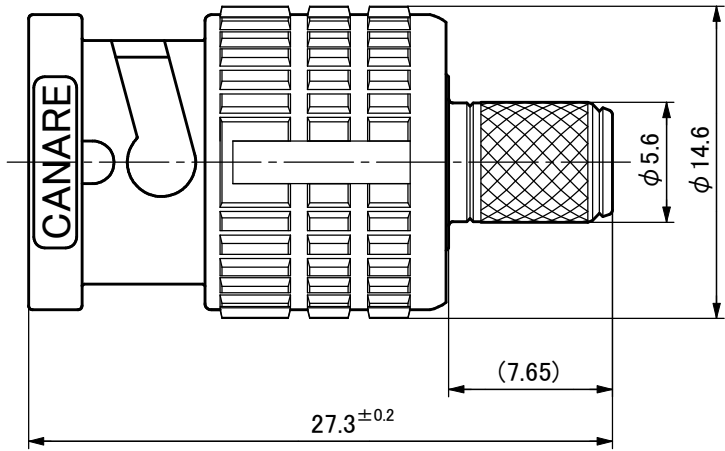
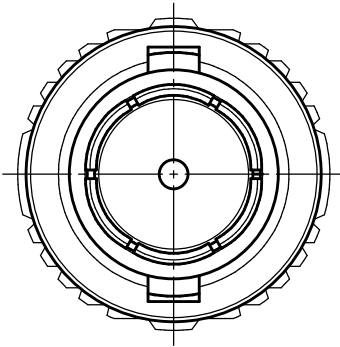
Table 2		
Items	Specified values	Test methods
Intermatability	To be engaged without any abnormality.	The plug and an applicable receptacle shall be engaged.
Fixing force of contact with lock mechanism	No displacement more than 0.5 mm.	Tensile strength of 19.6N shall be applied to the axial direction.
Strength of coupling mechanism	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 250N and rotation strength of 2.5N·m shall be applied.
Cable connecting force	245N or more for RG-59B/u	An applied cable shall be attached to the plug, after which tensile strength shall be applied.
Mechanical operation (repeated)	Contact resistance: 10mΩ 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

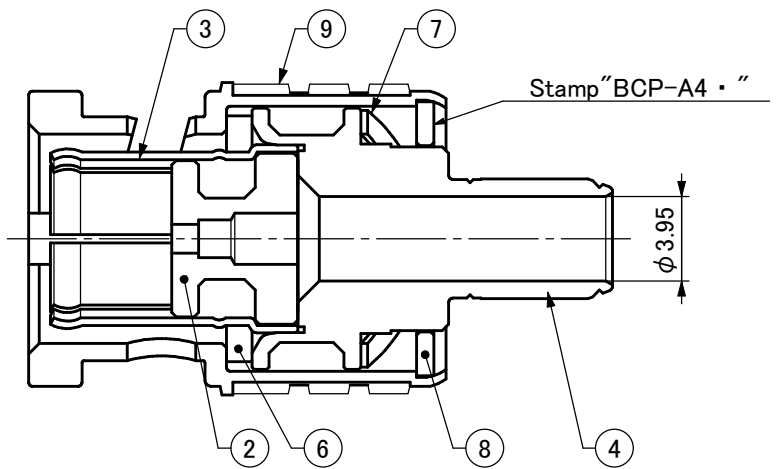
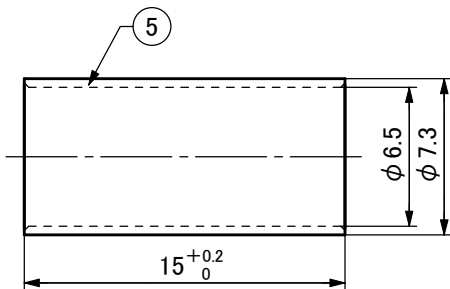
Table 3		
Items	Specified values	Test methods
Corrosion resistance (Salt mist)	Appearance: By visual inspection, without noticeable rust. Contact resistance: 50mΩ or less	The connector shall be subjected continuously to a fine mist of salt solution at a temperature of 35±2 °C for 48h (Salt solution concentration: 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).

External Appearance



Construction



9	Coupling Sleeve	1	Zinc Alloy Die Casting	Nickel Plating					
8	Washer	1	Brass	Nickel Plating					
7	Spring Washer	1	Beryllium Copper	Nickel Plating					
6	Gasket	1	Silicone Rubber	—					
5	Crimp Sleeve	1	Copper	Tin Plating					
4	Body	1	Brass	Nickel Plating					
3	Outer Contact	1	Beryllium Copper	Nickel Plating					
2	Insulator	1	PTFE	—					
1	Male Center Contact	1	Brass	Gold Plating					
No.	Name of Parts	Pc(s).	Material	Finish					
Title	CRIMP TYPE	PJTN	Unit	Sc.	Tol.	Date	Ver. 1.0	Model	No.
	75 Ω BNC PLUG		mm	2√2:1	±0.1	2011-11-08		BCP-A4	BL410

PRODUCT SPECIFICATIONS

(BCP-A42)

1/1

SAB408

Ver. 1.0

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
- (2) **Model name** BCP-A42
- (3) **Applicable standard** IEC*¹ 61169-8, JIS*² C 5412
- (4) **Nominal impedance** 75 Ω unbalanced
- (5) **Construction** As shown in the drawing (BL408).
- (6) **Weight** Approx 12g (including center contact and crimp sleeve)
- (7) **Designation** Stamp model name (BCP-A42) on washer and brand name (CANARE) on coupling sleeve.
- (8) **Packaging** 100pcs/package (220 x 155 x 37mm), 20pcs/package (150 x 50 x 31mm)
- (9) **Applicable cable** 1505F (Belden)
- (10) **Crimp tool** Frame: TC-1, Die: TCD-31C

3. Ratings

- (1) **Operating temperature** -40 °C ~ +85 °C
 - (2) **Operating humidity** ~ 90%
- *¹International Electrotechnical Commission
*²Japanese Industrial Standard

4. Characteristics

4.1 Electrical characteristics As shown in Table 1

Table 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 breakdown etc.	1500V a.c. shall be applied for 1 min between the contacts. Trip current :0.5mA.
Contact resistance	Between external contacts: 3mΩ or less Between center contacts: 6mΩ or less	Measurement shall be made between the contacts, with engaging a plug and a receptacle. (1kHz:1mA a.c.)
Return loss	26.4dB or more(0 ~ 2GHz) 20.8dB or more(0 ~ 3GHz)	An applied cable shall be attached to the plug, then it shall be terminated with 75 Ω.
Voltage standing wave ratio (V.S.W.R)	1.1 or less(0 ~ 2GHz) 1.2 or less(0 ~ 3GHz)	The measurement frequency up to 3GHz.

4.2 Mechanical characteristics As shown in Table 2

Table 2

Items	Specified values	Test methods
Intermatability	To be engaged without any abnormality.	The plug and an applicable receptacle shall be engaged.
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	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 250N and rotation strength of 2.5N·m shall be applied.
Cable connecting force	245N or more for 1505F	An applied cable shall be attached to the plug, after which tensile strength shall be applied.
Mechanical operation (repeated)	Contact resistance: 10mΩ or less	The endurance test consists of repeated engagement and separation of connector pairs. The measurement shall be made after 5000 cycles.

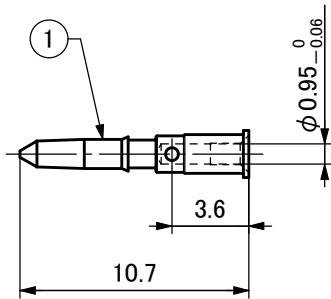
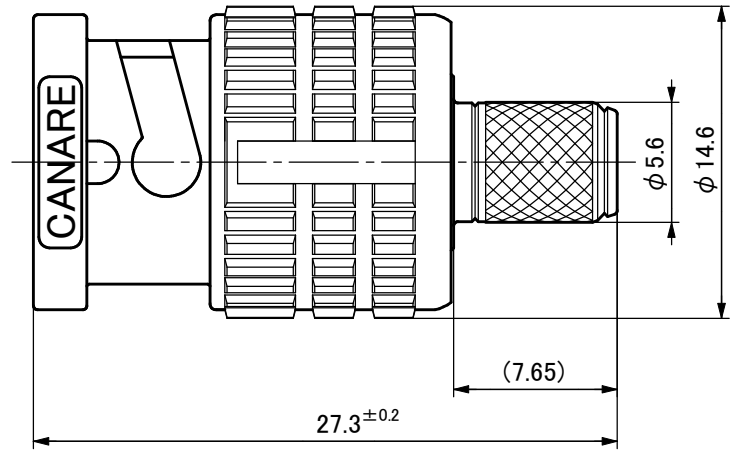
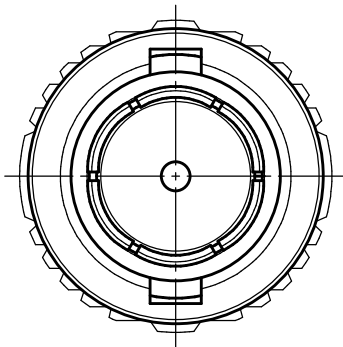
4.3 Environmental characteristics As shown in Table 3

Table 3

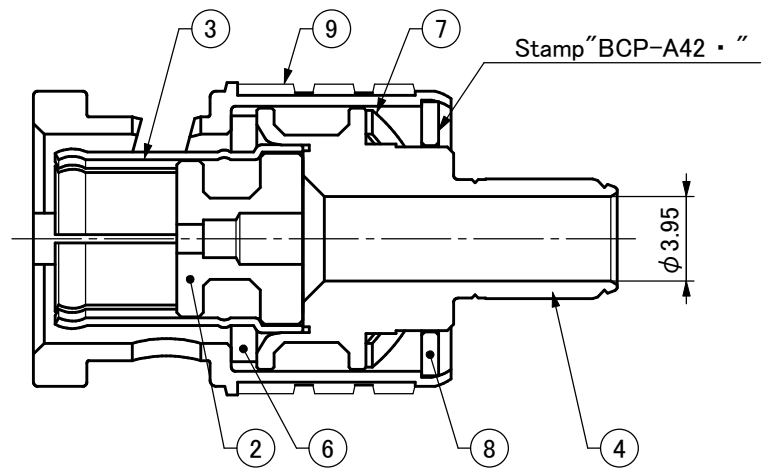
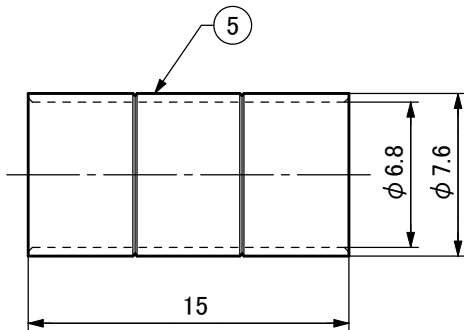
Items	Specified values	Test methods
Corrosion resistance (Salt mist)	Appearance: By visual inspection, without noticeable rust. Contact resistance: 50mΩ or less	The connector shall be subjected continuously to a fine mist of salt solution at a temperature of 35±2 °C for 48h (Salt solution concentration: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

External Appearance



Construction



9	Coupling Sleeve	1	Zinc Alloy Die Casting	Nickel Plating					
8	Washer	1	Brass	Nickel Plating					
7	Spring Washer	1	Beryllium Copper	Nickel Plating					
6	Gasket	1	Silicone Rubber	—					
5	Crimp Sleeve	1	Copper	Tin Plating					
4	Body	1	Brass	Nickel Plating					
3	Outer Contact	1	Beryllium Copper	Nickel Plating					
2	Insulator	1	PTFE	—					
1	Male Center Contact	1	Brass	Gold Plating					
No.	Name of Parts	Pc(s).	Material	Finish					
Title	CRIMP TYPE	PJTN	Unit	Sc.	Tol.	Date	Ver. 1.0	Model	No.
	75 Ω BNC PLUG		mm	2√2:1	±0.1	2011-05-31		BCP-A42	BL408

PRODUCT SPECIFICATIONS

(BCP-A4F)

SAB439
Ver. 1.0

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 |
| (2) Model name | BCP-A4F |
| (3) Applicable standard | IEC* ¹ 61169-8, JIS* ² C 5412 |
| (4) Nominal impedance | 75 Ω unbalanced |
| (5) Construction | As shown in the drawing (BL439). |
| (6) Weight | Approx 12g (including center contact and crimp sleeve) |
| (7) Designation | Stamp model name (BCP-A4F) on washer and brand name (CANARE) on coupling sleeve. |
| (8) Packaging | 100pcs/package (220 x 155 x 37mm), 20pcs/package (150 x 50 x 31mm) |
| (9) Applicable cable | L-4CFB,LS-4CFB,L-4CHD,V*-4CFB (CANARE), 1505A (Belden), S-4C-FB,TVEFCX (JIS C 3502) |
| (10) Crimp tool | Frame: TC-1, Die: TCD-451CA,TCD-4CA |

3. Ratings

- | | |
|----------------------------------|-----------------|
| (1) Operating temperature | -40 °C ~ +85 °C |
| (2) Operating humidity | ~ 90% |
- *¹International Electrotechnical Commission
*²Japanese Industrial Standard

4. Characteristics

4.1 Electrical characteristics As shown in Table 1

Table 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 breakdown etc.	1500V a.c. shall be applied for 1 min between the contacts. Trip current :0.5mA.
Contact resistance	Between external contacts: 3mΩ or less Between center contacts: 6mΩ or less	Measurement shall be made between the contacts, with engaging a plug and a receptacle. (1kHz:1mA a.c.)
Return loss	26.4dB or more(0 ~ 2GHz) 20.8dB or more(0 ~ 3GHz)	An applied cable shall be attached to the plug, then it shall be terminated with 75 Ω.
Voltage standing wave ratio (V.S.W.R)	1.1 or less(0 ~ 2GHz) 1.2 or less(0 ~ 3GHz)	The measurement frequency up to 3GHz.

4.2 Mechanical characteristics As shown in Table 2

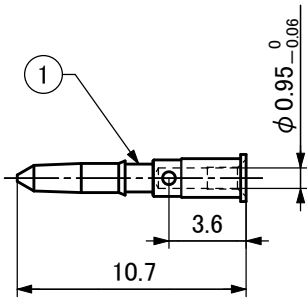
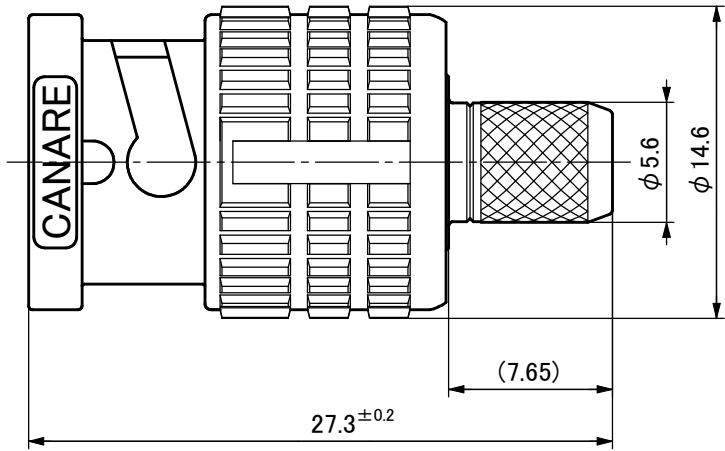
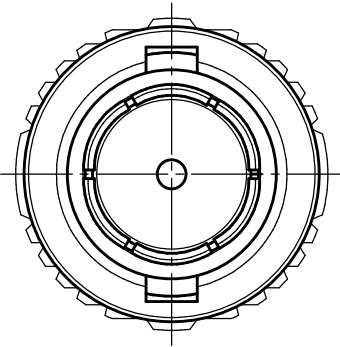
Table 2		
Items	Specified values	Test methods
Intermatability	To be engaged without any abnormality.	The plug and an applicable receptacle shall be engaged.
Fixing force of contact with lock mechanism	No displacement more than 0.5 mm.	Tensile strength of 19.6N shall be applied to the axial direction.
Strength of coupling mechanism	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 250N and rotation strength of 2.5N·m shall be applied.
Cable connecting force	196N or more for L-4CFB 147N or more for LS-4CFB	An applied cable shall be attached to the plug, after which tensile strength shall be applied.
Mechanical operation (repeated)	Contact resistance: 10mΩ 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

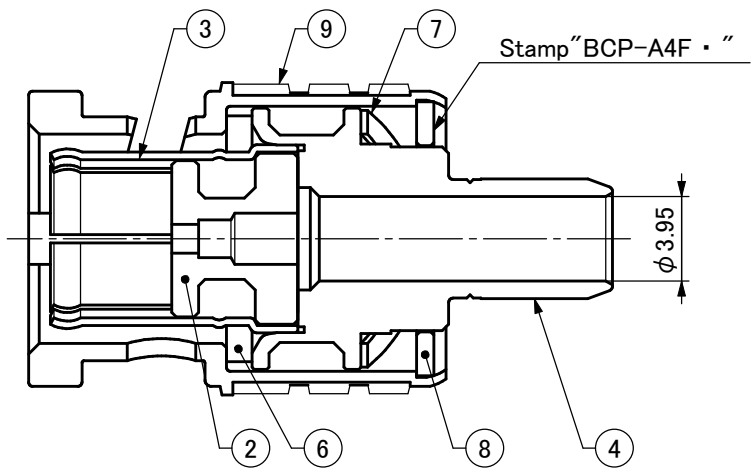
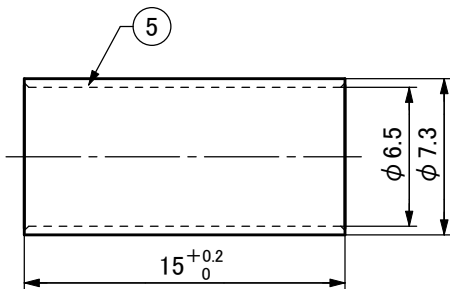
Table 3		
Items	Specified values	Test methods
Corrosion resistance (Salt mist)	Appearance: By visual inspection, without noticeable rust. Contact resistance: 50mΩ or less	The connector shall be subjected continuously to a fine mist of salt solution at a temperature of 35±2 °C for 48h (Salt solution concentration: 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).

External Appearance



Construction



9	Coupling Sleeve	1	Zinc Alloy Die Casting	Nickel Plating					
8	Washer	1	Brass	Nickel Plating					
7	Spring Washer	1	Beryllium Copper	Nickel Plating					
6	Gasket	1	Silicone Rubber	—					
5	Crimp Sleeve	1	Copper	Tin Plating					
4	Body	1	Brass	Nickel Plating					
3	Outer Contact	1	Beryllium Copper	Nickel Plating					
2	Insulator	1	PTFE	—					
1	Male Center Contact	1	Brass	Gold Plating					
No.	Name of Parts	Pc(s).	Material	Finish					
Title	CRIMP TYPE	PJTN	Unit	Sc.	Tol.	Date	Ver. 1.0	Model	No.
	75 Ω BNC PLUG		mm	2√2:1	±0.1	2011-05-31		BCP-A4F	BL439

PRODUCT SPECIFICATIONS

(BCP-A55)

SAB407
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

- | | |
|--------------------------------|--|
| (1) Product name | Crimp type 75 Ω BNC plug |
| (2) Model name | BCP-A55 |
| (3) Applicable standard | IEC* ¹ 61169-8, JIS* ² C 5412 |
| (4) Nominal impedance | 75 Ω unbalanced |
| (5) Construction | As shown in the drawing (BL407). |
| (6) Weight | Approx 12.5g (including center contact and crimp sleeve) |
| (7) Designation | Stamp model name (BCP-A55) on washer and brand name (CANARE) on coupling sleeve. |
| (8) Packaging | 100pcs/package (220 x 155 x 37mm), 20pcs/package (150 x 50 x 31mm) |
| (9) Applicable cable | 1695A (Belden), VSD2001TS(GEPCO) |
| (10) Crimp tool | Frame: TC-1, Die: TCD-35CA |

3. Ratings

- | | |
|----------------------------------|-----------------|
| (1) Operating temperature | -40 °C ~ +85 °C |
| (2) Operating humidity | ~ 90% |
- *¹International Electrotechnical Commission
*²Japanese Industrial Standard

4. Characteristics

4.1 Electrical characteristics As shown in Table 1

Table 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 breakdown etc.	1500V a.c. shall be applied for 1 min between the contacts. Trip current :0.5mA.
Contact resistance	Between external contacts: 3mΩ or less Between center contacts: 6mΩ or less	Measurement shall be made between the contacts, with engaging a plug and a receptacle. (1kHz:1mA a.c.)
Return loss	26.4dB or more(0 ~ 2GHz) 20.8dB or more(0 ~ 3GHz)	An applied cable shall be attached to the plug, then it shall be terminated with 75 Ω.
Voltage standing wave ratio (V.S.W.R)	1.1 or less(0 ~ 2GHz) 1.2 or less(0 ~ 3GHz)	The measurement frequency up to 3GHz.

4.2 Mechanical characteristics As shown in Table 2

Table 2

Items	Specified values	Test methods
Intermatability	To be engaged without any abnormality.	The plug and an applicable receptacle shall be engaged.
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	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 250N and rotation strength of 2.5N·m shall be applied.
Cable connecting force	245N or more	An applied cable shall be attached to the plug, after which tensile strength shall be applied.
Mechanical operation (repeated)	Contact resistance: 10mΩ or less	The endurance test consists of repeated engagement and separation of connector pairs. The measurement shall be made after 5000 cycles.

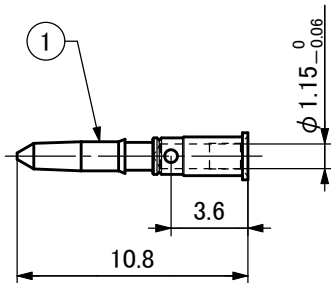
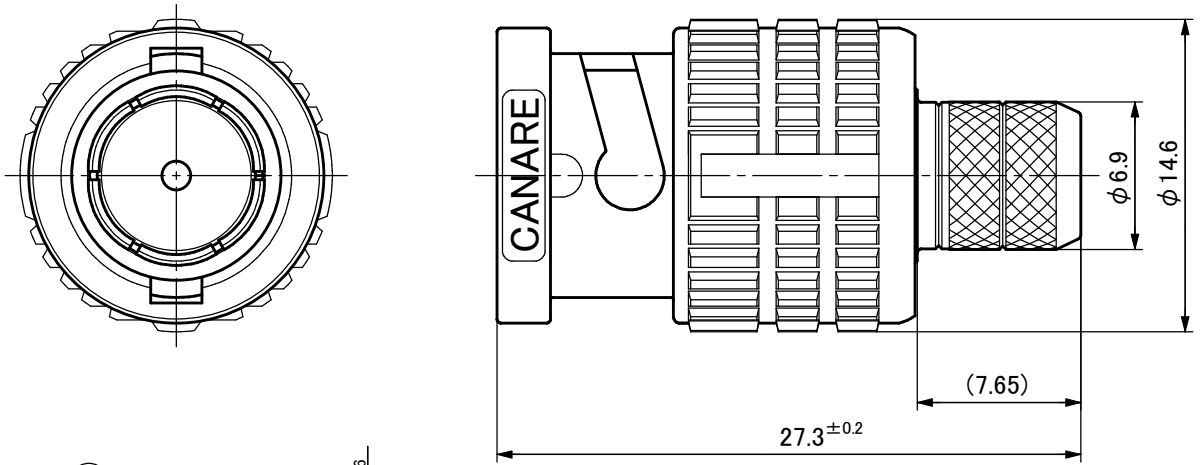
4.3 Environmental characteristics As shown in Table 3

Table 3

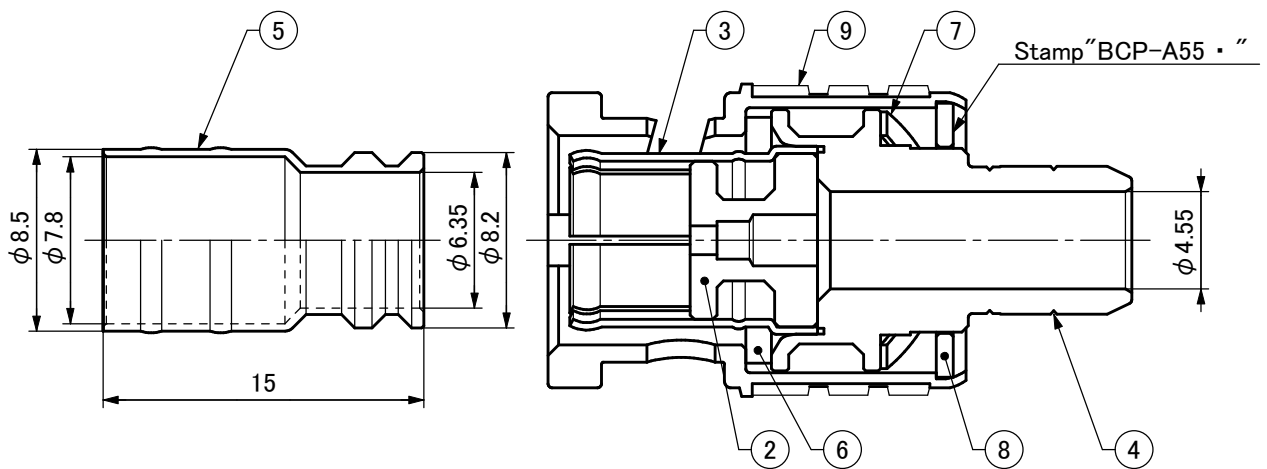
Items	Specified values	Test methods
Corrosion resistance (Salt mist)	Appearance: By visual inspection, without noticeable rust. Contact resistance: 50mΩ or less	The connector shall be subjected continuously to a fine mist of salt solution at a temperature of 35±2 °C for 48h (Salt solution concentration: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

External Appearance



Construction



9	Coupling Sleeve	1	Zinc Alloy Die Casting	Nickel Plating					
8	Washer	1	Brass	Nickel Plating					
7	Spring Washer	1	Beryllium Copper	Nickel Plating					
6	Gasket	1	Silicone Rubber	—					
5	Crimp Sleeve	1	Brass	Tin Plating					
4	Body	1	Brass	Nickel Plating					
3	Outer Contact	1	Beryllium Copper	Nickel Plating					
2	Insulator	1	PTFE	—					
1	Male Center Contact	1	Brass	Gold Plating					
No.	Name of Parts	Pc(s).	Material	Finish					
Title	CRIMP TYPE	PJTN	Unit	Sc.	Tol.	Date	Ver. 1.0	Model	No.
	75 Ω BNC PLUG		mm	2√2:1	±0.1	2011-05-31		BCP-A55	BL407

PRODUCT SPECIFICATIONS

(BCP-A52)

SAB414

Ver. 1.0

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
 (2) **Model name** BCP-A52
 (3) **Applicable standard** IEC*1 61169-8, JIS*2 C 5412
 (4) **Nominal impedance** 75 Ω unbalanced
 (5) **Construction** As shown in the drawing (BL414).
 (6) **Weight** Approx 12g (including center contact and crimp sleeve)
 (7) **Designation** Stamp model name (BCP-A52) on washer and brand name (CANARE) on coupling sleeve.
 (8) **Packaging** 100pcs/package (220 x 155 x 37mm), 20pcs/package (150 x 50 x 31mm)
 (9) **Applicable cable** L-5C2W (CANARE), 5C-2W (JIS C 3501)
 (10) **Crimp tool** Frame: TC-1, Die: TCD-451CA

3. Ratings

- (1) **Operating temperature** -40 °C ~ +85 °C
 (2) **Operating humidity** ~ 90%
- *1 International Electrotechnical Commission
 *2 Japanese Industrial Standard

4. Characteristics

4.1 Electrical characteristics As shown in Table 1

Table 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 breakdown etc.	1500V a.c. shall be applied for 1 min between the contacts. Trip current :0.5mA.
Contact resistance	Between external contacts: 3mΩ or less Between center contacts: 6mΩ or less	Measurement shall be made between the contacts, with engaging a plug and a receptacle. (1kHz:1mA a.c.)
Return loss	26.4dB or more(0 ~ 2GHz) 20.8dB or more(0 ~ 3GHz)	An applied cable shall be attached to the plug, then it shall be terminated with 75 Ω.
Voltage standing wave ratio (V.S.W.R)	1.1 or less(0 ~ 2GHz) 1.2 or less(0 ~ 3GHz)	The measurement frequency up to 3GHz.

4.2 Mechanical characteristics As shown in Table 2

Table 2

Items	Specified values	Test methods
Intermatability	To be engaged without any abnormality.	The plug and an applicable receptacle shall be engaged.
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	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 250N and rotation strength of 2.5N·m shall be applied.
Cable connecting force	245N or more for L-5C2W	An applied cable shall be attached to the plug, after which tensile strength shall be applied.
Mechanical operation (repeated)	Contact resistance: 10mΩ or less	The endurance test consists of repeated engagement and separation of connector pairs. The measurement shall be made after 5000 cycles.

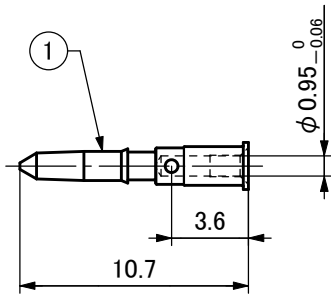
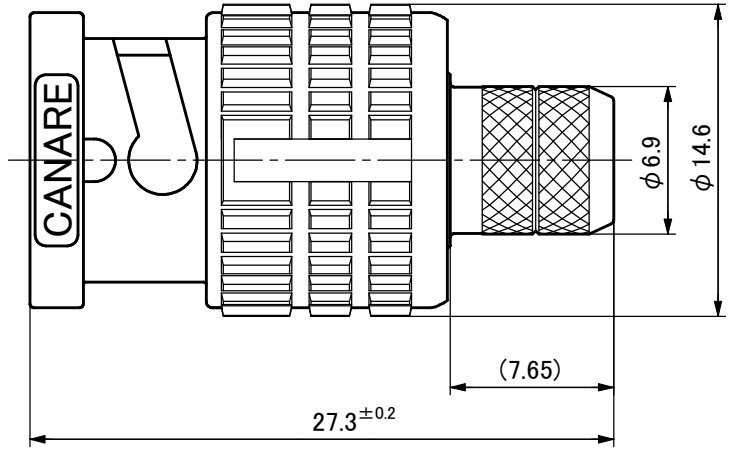
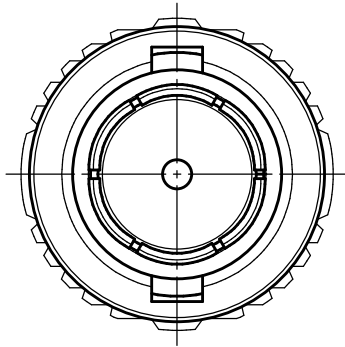
4.3 Environmental characteristics As shown in Table 3

Table 3

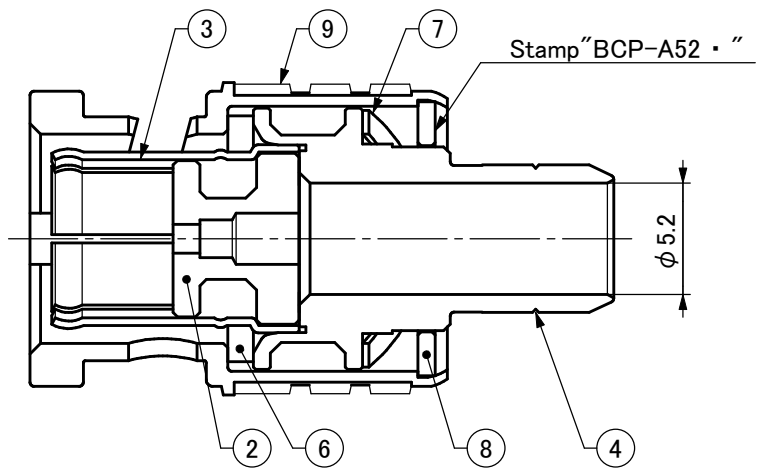
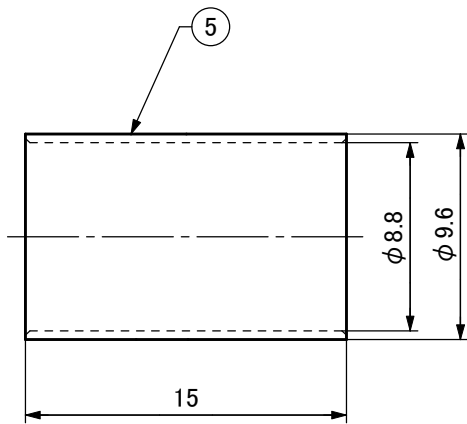
Items	Specified values	Test methods
Corrosion resistance (Salt mist)	Appearance: By visual inspection, without noticeable rust. Contact resistance: 50mΩ or less	The connector shall be subjected continuously to a fine mist of salt solution at a temperature of 35±2 °C for 48h (Salt solution concentration: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

External Appearance



Construction



9	Coupling Sleeve	1	Zinc Alloy Die Casting	Nickel Plating					
8	Washer	1	Brass	Nickel Plating					
7	Spring Washer	1	Beryllium Copper	Nickel Plating					
6	Gasket	1	Silicone Rubber	—					
5	Crimp Sleeve	1	Copper	Tin Plating					
4	Body	1	Brass	Nickel Plating					
3	Outer Contact	1	Beryllium Copper	Nickel Plating					
2	Insulator	1	PTFE	—					
1	Male Center Contact	1	Brass	Gold Plating					
No.	Name of Parts	Pc(s).	Material	Finish					
Title CRIMP TYPE		PJTN	Unit	Sc.	Tol.	Date	Ver. 1.0	Model	No.
75 Ω BNC PLUG			mm	2√2:1	±0.1	2011-05-31		BCP-A52	BL414

PRODUCT SPECIFICATIONS

(BCP-A5F)

SAB440

Ver. 1.0

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 |
| (2) Model name | BCP-A5F |
| (3) Applicable standard | IEC*1 61169-8, JIS*2 C 5412 |
| (4) Nominal impedance | 75 Ω unbalanced |
| (5) Construction | As shown in the drawing (BL440). |
| (6) Weight | Approx 12g (including center contact and crimp sleeve) |
| (7) Designation | Stamp model name (BCP-A5F) on washer and brand name (CANARE) on coupling sleeve. |
| (8) Packaging | 100pcs/package (220 x 155 x 37mm), 20pcs/package (150 x 50 x 31mm) |
| (9) Applicable cable | L-5CFB, LS-5CFB, V*-5CFB (CANARE), S-5C-FB (JIS C 5302) |
| (10) Crimp tool | Frame: TC-1, Die: TCD-35CA |

3. Ratings

- | | |
|----------------------------------|-----------------|
| (1) Operating temperature | -40 °C ~ +85 °C |
| (2) Operating humidity | ~ 90% |
- *1 International Electrotechnical Commission
*2 Japanese Industrial Standard

4. Characteristics

4.1 Electrical characteristics As shown in Table 1

Table 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 breakdown etc.	1500V a.c. shall be applied for 1 min between the contacts. Trip current :0.5mA.
Contact resistance	Between external contacts: 3mΩ or less Between center contacts: 6mΩ or less	Measurement shall be made between the contacts, with engaging a plug and a receptacle. (1kHz:1mA a.c.)
Return loss	26.4dB or more(0 ~ 2GHz) 20.8dB or more(0 ~ 3GHz)	An applied cable shall be attached to the plug, then it shall be terminated with 75 Ω.
Voltage standing wave ratio (V.S.W.R)	1.1 or less(0 ~ 2GHz) 1.2 or less(0 ~ 3GHz)	The measurement frequency up to 3GHz.

4.2 Mechanical characteristics As shown in Table 2

Table 2

Items	Specified values	Test methods
Intermatability	To be engaged without any abnormality.	The plug and an applicable receptacle shall be engaged.
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	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 250N and rotation strength of 2.5N·m shall be applied.
Cable connecting force	196N or more for L-5CFB	An applied cable shall be attached to the plug, after which tensile strength shall be applied.
Mechanical operation (repeated)	Contact resistance: 10mΩ or less	The endurance test consists of repeated engagement and separation of connector pairs. The measurement shall be made after 5000 cycles.

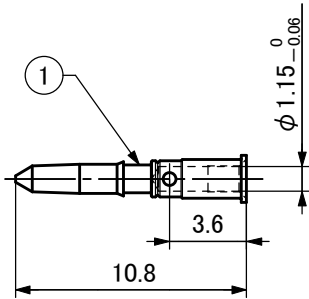
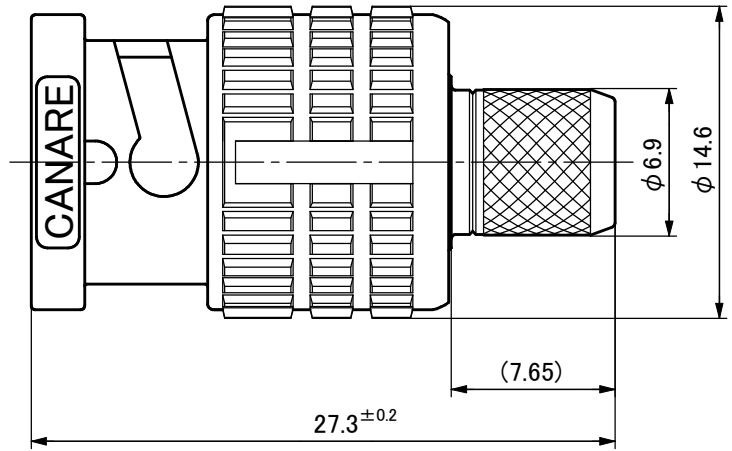
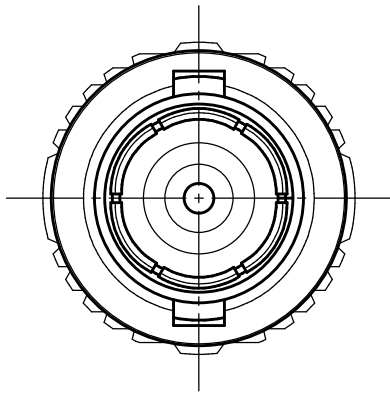
4.3 Environmental characteristics As shown in Table 3

Table 3

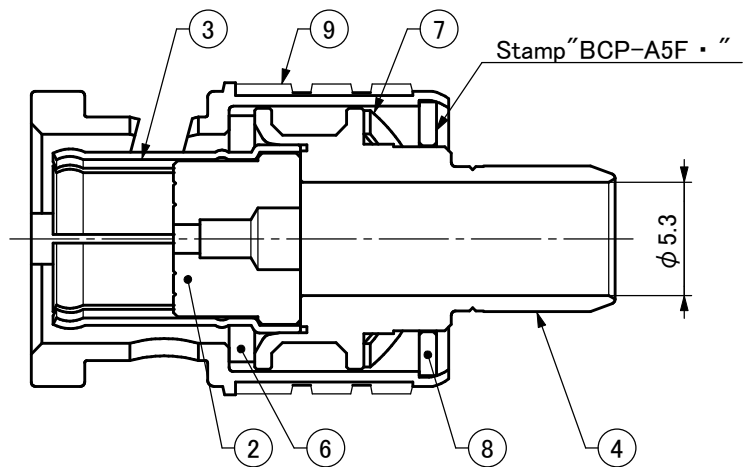
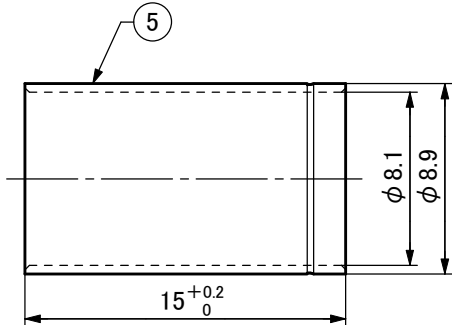
Items	Specified values	Test methods
Corrosion resistance (Salt mist)	Appearance: By visual inspection, without noticeable rust. Contact resistance: 50mΩ or less	The connector shall be subjected continuously to a fine mist of salt solution at a temperature of 35±2 °C for 48h (Salt solution concentration: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

External Appearance



Construction



9	Coupling Sleeve	1	Zinc Alloy Die Casting	Nickel Plating					
8	Washer	1	Brass	Nickel Plating					
7	Spring Washer	1	Beryllium Copper	Nickel Plating					
6	Gasket	1	Silicone Rubber	—					
5	Crimp Sleeve	1	Copper	Tin Plating					
4	Body	1	Brass	Nickel Plating					
3	Outer Contact	1	Beryllium Copper	Nickel Plating					
2	Insulator	1	PTFE	—					
1	Male Center Contact	1	Brass	Gold Plating					
No.	Name of Parts	Pc(s).	Material	Finish					
Title	CRIMP TYPE	PJTN	Unit	Sc.	Tol.	Date	Ver. 1.0	Model	No.
	75 Ω BNC PLUG		mm	2√2:1	±0.1	2011-05-31		BCP-A5F	BL440

PRODUCT SPECIFICATIONS

(BCP-A5)

SAB411

Ver. 1.0

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
 (2) **Model name** BCP-A5
 (3) **Applicable standard** IEC*1 61169-8, JIS*2 C 5412
 (4) **Nominal impedance** 75 Ω unbalanced
 (5) **Construction** As shown in the drawing (BL411).
 (6) **Weight** Approx 12g (including center contact and crimp sleeve)
 (7) **Designation** Stamp model name (BCP-A5) on washer and brand name (CANARE) on coupling sleeve.
 (8) **Packaging** 100pcs/package (220 x 155 x 37mm), 20pcs/package (150 x 50 x 31mm)
 (9) **Applicable cable** L-5C2V, L-5C2VS, V*-5C (CANARE), 5C-2V (JIS C 3501)
 (10) **Crimp tool** Frame: TC-1, Die: TCD-35CA

3. Ratings

- (1) **Operating temperature** -40 °C ~ +85 °C
 (2) **Operating humidity** ~ 90%
- *1 International Electrotechnical Commission
 *2 Japanese Industrial Standard

4. Characteristics

4.1 Electrical characteristics As shown in Table 1

Table 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 breakdown etc.	1500V a.c. shall be applied for 1 min between the contacts. Trip current :0.5mA.
Contact resistance	Between external contacts: 3mΩ or less Between center contacts: 6mΩ or less	Measurement shall be made between the contacts, with engaging a plug and a receptacle. (1kHz:1mA a.c.)
Return loss	26.4dB or more(0 ~ 2GHz) 20.8dB or more(0 ~ 3GHz)	An applied cable shall be attached to the plug, then it shall be terminated with 75 Ω.
Voltage standing wave ratio (V.S.W.R)	1.1 or less(0 ~ 2GHz) 1.2 or less(0 ~ 3GHz)	The measurement frequency up to 3GHz.

4.2 Mechanical characteristics As shown in Table 2

Table 2

Items	Specified values	Test methods
Intermatability	To be engaged without any abnormality.	The plug and an applicable receptacle shall be engaged.
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	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 250N and rotation strength of 2.5N·m shall be applied.
Cable connecting force	245N or more for L-5C2V	An applied cable shall be attached to the plug, after which tensile strength shall be applied.
Mechanical operation (repeated)	Contact resistance: 10mΩ or less	The endurance test consists of repeated engagement and separation of connector pairs. The measurement shall be made after 5000 cycles.

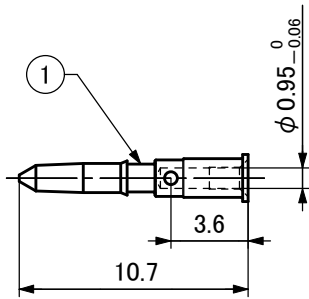
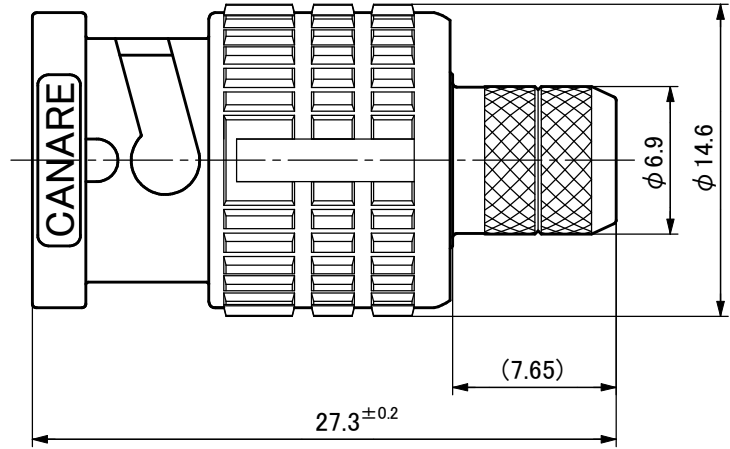
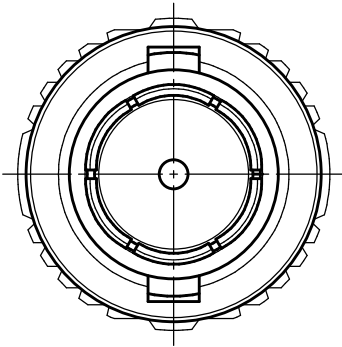
4.3 Environmental characteristics As shown in Table 3

Table 3

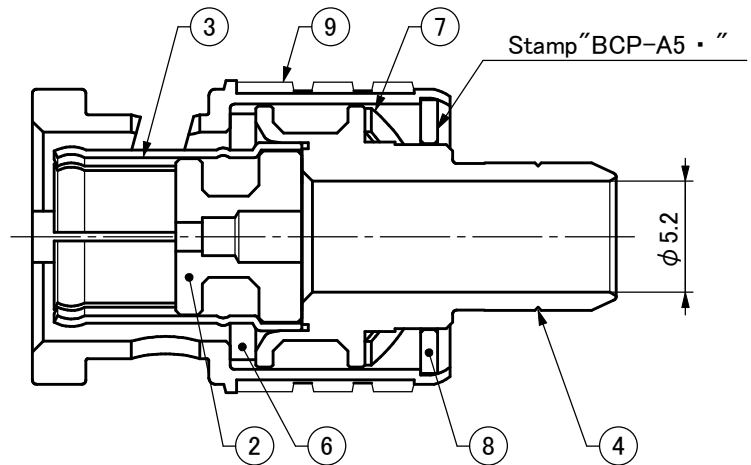
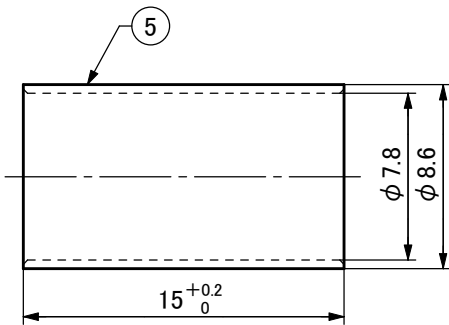
Items	Specified values	Test methods
Corrosion resistance (Salt mist)	Appearance: By visual inspection, without noticeable rust. Contact resistance: 50mΩ or less	The connector shall be subjected continuously to a fine mist of salt solution at a temperature of 35±2 °C for 48h (Salt solution concentration: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

External Appearance



Construction



9	Coupling Sleeve	1	Zinc Alloy Die Casting	Nickel Plating					
8	Washer	1	Brass	Nickel Plating					
7	Spring Washer	1	Beryllium Copper	Nickel Plating					
6	Gasket	1	Silicone Rubber	—					
5	Crimp Sleeve	1	Copper	Tin Plating					
4	Body	1	Brass	Nickel Plating					
3	Outer Contact	1	Beryllium Copper	Nickel Plating					
2	Insulator	1	PTFE	—					
1	Male Center Contact	1	Brass	Gold Plating					
No.	Name of Parts	Pc(s).	Material	Finish					
Title	CRIMP TYPE	PJTN	Unit	Sc.	Tol.	Date	Ver. 1.0	Model	No.
	75 Ω BNC PLUG		mm	2√2:1	±0.1	2011-05-31		BCP-A5	BL411

PRODUCT SPECIFICATIONS

(BCP-VA5)

1/1

SAB417

Ver. 1.0

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
- (2) **Model name** BCP-VA5
- (3) **Applicable standard** IEC*¹ 61169-8, JIS*² C 5412
- (4) **Nominal impedance** 75 Ω unbalanced
- (5) **Construction** As shown in the drawing (BL417).
- (6) **Weight** Approx 12g (including center contact and crimp sleeve)
- (7) **Designation** Stamp model name (BCP-VA5) on washer and brand name (CANARE) on coupling sleeve.
- (8) **Packaging** 100pcs/package (220 x 155 x 37mm), 20pcs/package (150 x 50 x 31mm)
- (9) **Applicable cable** V3-5C, V4-5C, V5-5C (CANARE)
- (10) **Crimp tool** Frame: TC-1, Die: TCD-35CA

3. Ratings

- (1) **Operating temperature** -40 °C ~ +85 °C
 - (2) **Operating humidity** ~ 90%
- *¹International Electrotechnical Commission
*²Japanese Industrial Standard

4. Characteristics

4.1 Electrical characteristics As shown in Table 1

Table 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 breakdown etc.	1500V a.c. shall be applied for 1 min between the contacts. Trip current :0.5mA.
Contact resistance	Between external contacts: 3mΩ or less Between center contacts: 6mΩ or less	Measurement shall be made between the contacts, with engaging a plug and a receptacle. (1kHz:1mA a.c.)
Return loss	26.4dB or more(0 ~ 2GHz) 20.8dB or more(0 ~ 3GHz)	An applied cable shall be attached to the plug, then it shall be terminated with 75 Ω.
Voltage standing wave ratio (V.S.W.R)	1.1 or less(0 ~ 2GHz) 1.2 or less(0 ~ 3GHz)	The measurement frequency up to 3GHz.

4.2 Mechanical characteristics As shown in Table 2

Table 2

Items	Specified values	Test methods
Intermatability	To be engaged without any abnormality.	The plug and an applicable receptacle shall be engaged.
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	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 250N and rotation strength of 2.5N·m shall be applied.
Cable connecting force	245N or more for V*-5C	An applied cable shall be attached to the plug, after which tensile strength shall be applied.
Mechanical operation (repeated)	Contact resistance: 10mΩ or less	The endurance test consists of repeated engagement and separation of connector pairs. The measurement shall be made after 5000 cycles.

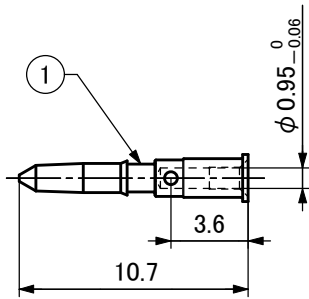
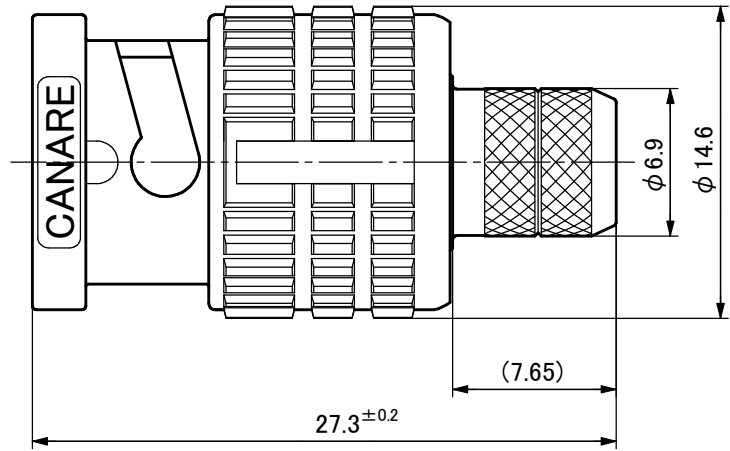
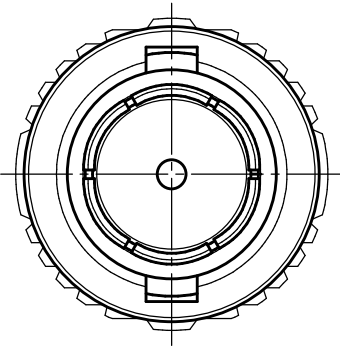
4.3 Environmental characteristics As shown in Table 3

Table 3

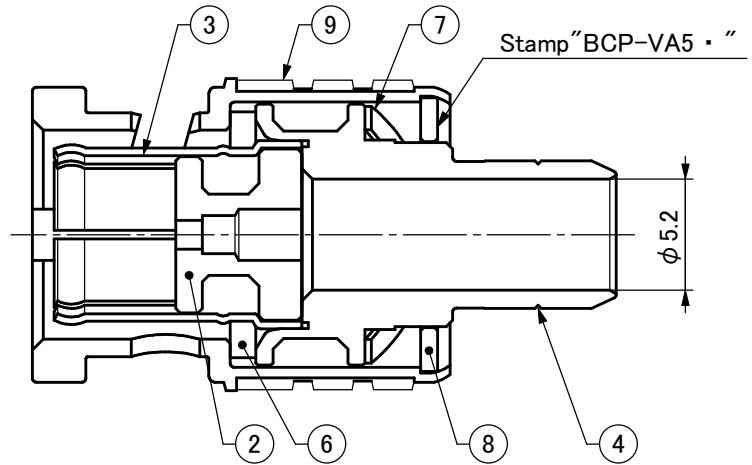
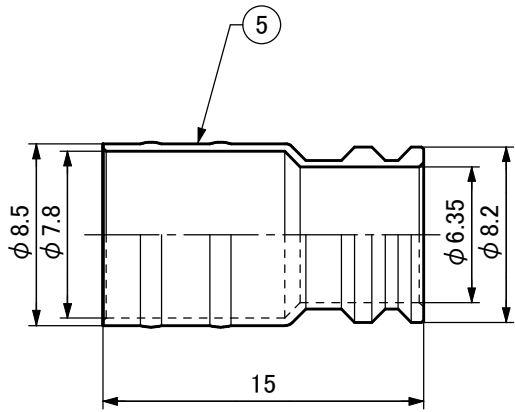
Items	Specified values	Test methods
Corrosion resistance (Salt mist)	Appearance: By visual inspection, without noticeable rust. Contact resistance: 50mΩ or less	The connector shall be subjected continuously to a fine mist of salt solution at a temperature of 35±2 °C for 48h (Salt solution concentration: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

External Appearance



Construction



9	Coupling Sleeve	1	Zinc Alloy Die Casting	Nickel Plating
8	Washer	1	Brass	Nickel Plating
7	Spring Washer	1	Beryllium Copper	Nickel Plating
6	Gasket	1	Silicone Rubber	—
5	Crimp Sleeve	1	Brass	Tin Plating
4	Body	1	Brass	Nickel Plating
3	Outer Contact	1	Beryllium Copper	Nickel Plating
2	Insulator	1	PTFE	—
1	Male Center Contact	1	Brass	Gold Plating
No.	Name of Parts	Pc(s).	Material	Finish
Title CRIMP TYPE		PJTN	Unit Sc.	Date Ver. 1.0
75 Ω BNC PLUG			mm 2√2:1	2011-05-31
			Tol. ±0.1	Model BCP-VA5
				No. BL417

PRODUCT SPECIFICATIONS

(BCP-VA3)

1/1

SAB416

Ver. 1.0

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
- (2) **Model name** BCP-VA3
- (3) **Applicable standard** IEC*¹ 61169-8, JIS*² C 5412
- (4) **Nominal impedance** 75 Ω unbalanced
- (5) **Construction** As shown in the drawing (BL416).
- (6) **Weight** Approx 12g (including center contact and crimp sleeve)
- (7) **Designation** Stamp model name (BCP-VA3) on washer and brand name (CANARE) on coupling sleeve.
- (8) **Packaging** 100pcs/package (220 x 155 x 37mm), 20pcs/package (150 x 50 x 31mm)
- (9) **Applicable cable** V3-3C, V4-3C, V5-3C (CANARE)
- (10) **Crimp tool** Frame: TC-1, Die: TCD-35CA

3. Ratings

- (1) **Operating temperature** -40 °C ~ +85 °C
 - (2) **Operating humidity** ~ 90%
- *¹International Electrotechnical Commission
*²Japanese Industrial Standard

4. Characteristics

4.1 Electrical characteristics As shown in **Table 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 breakdown etc.	1500V a.c. shall be applied for 1 min between the contacts. Trip current :0.5mA.
Contact resistance	Between external contacts: 3mΩ or less Between center contacts: 6mΩ or less	Measurement shall be made between the contacts, with engaging a plug and a receptacle. (1kHz:1mA a.c.)
Return loss	26.4dB or more(0 ~ 2GHz) 20.8dB or more(0 ~ 3GHz)	An applied cable shall be attached to the plug, then it shall be terminated with 75 Ω.
Voltage standing wave ratio (V.S.W.R)	1.1 or less(0 ~ 2GHz) 1.2 or less(0 ~ 3GHz)	The measurement frequency up to 3GHz.

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

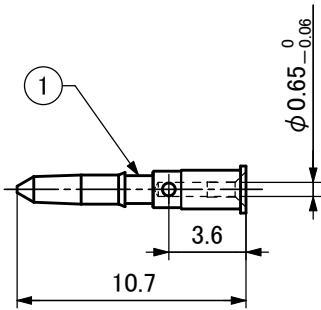
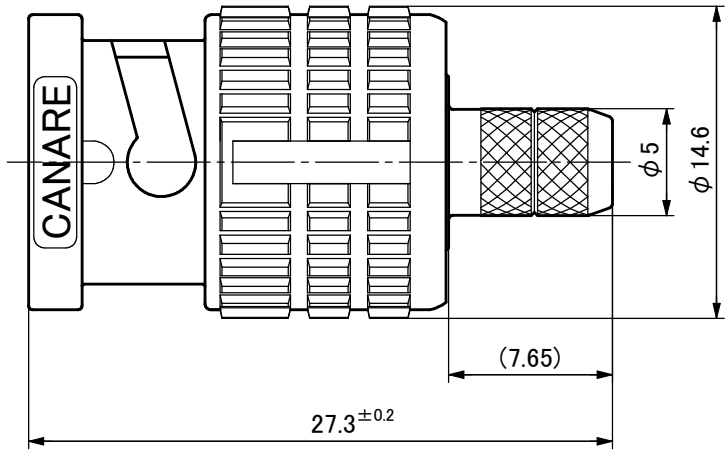
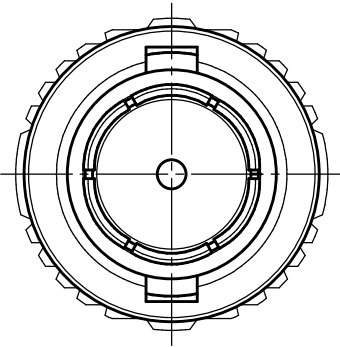
Items	Specified values	Test methods
Intermatability	To be engaged without any abnormality.	The plug and an applicable receptacle shall be engaged.
Fixing force of contact with lock mechanism	No displacement more than 0.5 mm.	Tensile strength of 19.6N shall be applied to the axial direction.
Strength of coupling mechanism	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 250N and rotation strength of 2.5N·m shall be applied.
Cable connecting force	196N or more for V*-3C	An applied cable shall be attached to the plug, after which tensile strength shall be applied.
Mechanical operation (repeated)	Contact resistance: 10mΩ 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**

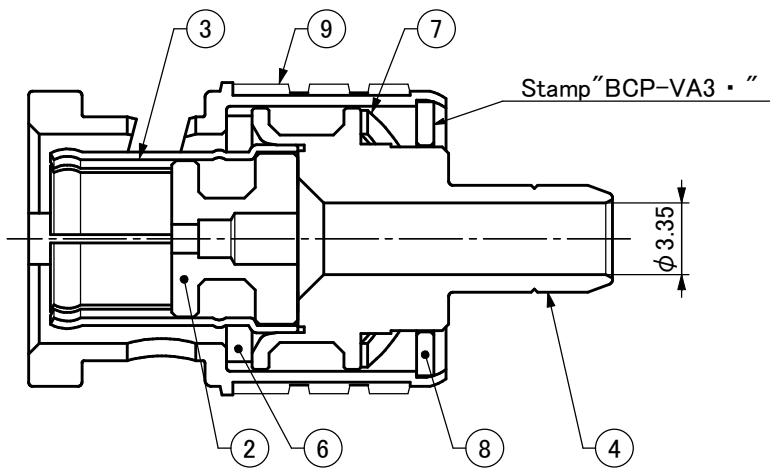
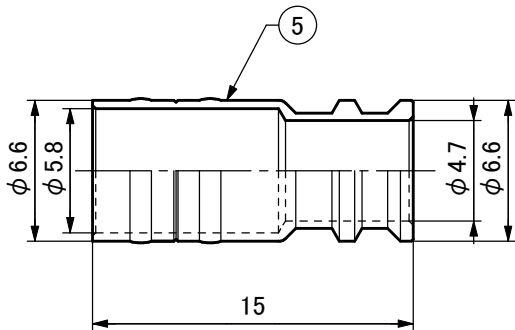
Items	Specified values	Test methods
Corrosion resistance (Salt mist)	Appearance: By visual inspection, without noticeable rust. Contact resistance: 50mΩ or less	The connector shall be subjected continuously to a fine mist of salt solution at a temperature of 35±2 °C for 48h (Salt solution concentration: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

External Appearance



Construction



9	Coupling Sleeve	1	Zinc Alloy Die Casting	Nickel Plating					
8	Washer	1	Brass	Nickel Plating					
7	Spring Washer	1	Beryllium Copper	Nickel Plating					
6	Gasket	1	Silicone Rubber	—					
5	Crimp Sleeve	1	Brass	Tin Plating					
4	Body	1	Brass	Nickel Plating					
3	Outer Contact	1	Beryllium Copper	Nickel Plating					
2	Insulator	1	PTFE	—					
1	Male Center Contact	1	Brass	Gold Plating					
No.	Name of Parts	Pc(s).	Material	Finish					
Title	CRIMP TYPE 75 Ω BNC PLUG	PJTN 	Unit mm	Sc. 2√2:1	Tol. ±0.1	Date 2011-05-31	Ver. 1.0	Model BCP-VA3	No. BL416

PRODUCT SPECIFICATIONS

(BCP-A77)

SAB419
Ver. 1.0

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 |
| (2) Model name | BCP-A77 |
| (3) Applicable standard | IEC* ¹ 61169-8, JIS* ² C 5412 |
| (4) Nominal impedance | 75 Ω unbalanced |
| (5) Construction | As shown in the drawing (BL419). |
| (6) Weight | Approx 12g (including center contact and crimp sleeve) |
| (7) Designation | Stamp model name (BCP-A77) on washer and brand name (CANARE) on coupling sleeve. |
| (8) Packaging | 100pcs/package (220 x 155 x 37mm), 20pcs/package (150 x 50 x 31mm) |
| (9) Applicable cable | LV-77S (CANARE), 8281F (Belden) |
| (10) Crimp tool | Frame: TC-1, Die: TCD-55FA, TCD-5CF |

3. Ratings

- | | |
|----------------------------------|-----------------|
| (1) Operating temperature | -40 °C ~ +85 °C |
| (2) Operating humidity | ~ 90% |
- *¹International Electrotechnical Commission
*²Japanese Industrial Standard

4. Characteristics

4.1 Electrical characteristics As shown in Table 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 breakdown etc.	1500V a.c. shall be applied for 1 min between the contacts. Trip current :0.5mA.
Contact resistance	Between external contacts: 3mΩ or less Between center contacts: 6mΩ or less	Measurement shall be made between the contacts, with engaging a plug and a receptacle. (1kHz:1mA a.c.)
Return loss	20.8dB or more	An applied cable shall be attached to the plug, then it shall be terminated with 75 Ω. The measurement frequency up to 3GHz.
Voltage standing wave ratio (V.S.W.R)	1.2 or less	

4.2 Mechanical characteristics As shown in Table 2

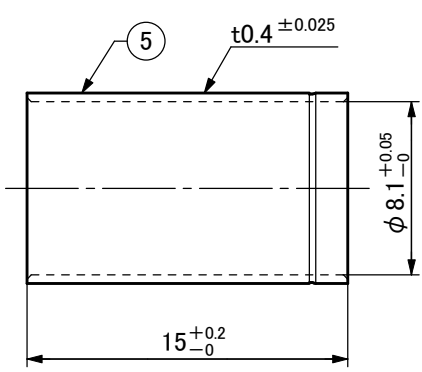
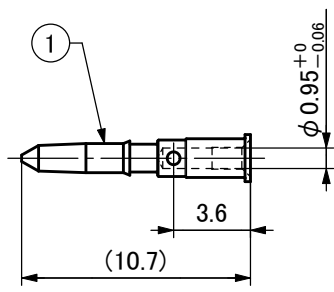
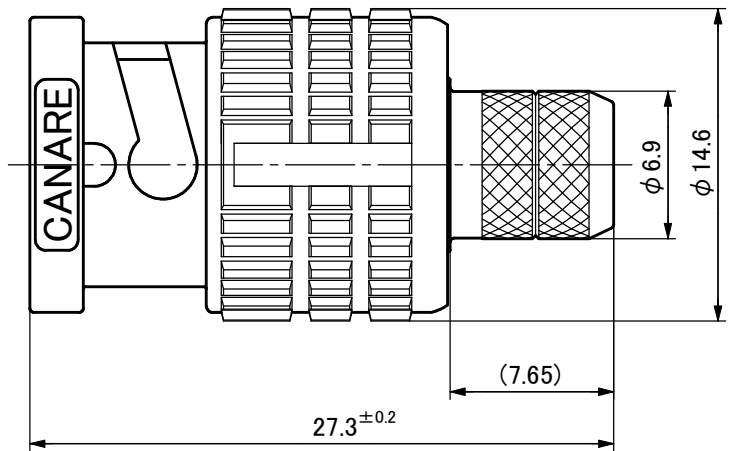
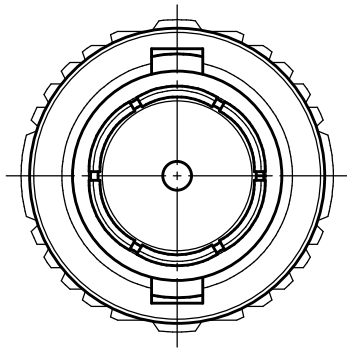
Items	Specified values	Test methods
Intermatability	To be engaged without any abnormality.	The plug and an applicable receptacle shall be engaged.
Fixing force of contact with lock mechanism	No displacement more than 0.5 mm.	Tensile strength of 19.6N shall be applied to the axial direction.
Strength of coupling mechanism	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 250N and rotation strength of 2.5N·m shall be applied.
Cable connecting force	245N or more for LV-77S	An applied cable shall be attached to the plug, after which tensile strength shall be applied.
Mechanical operation (repeated)	Contact resistance: 10mΩ 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

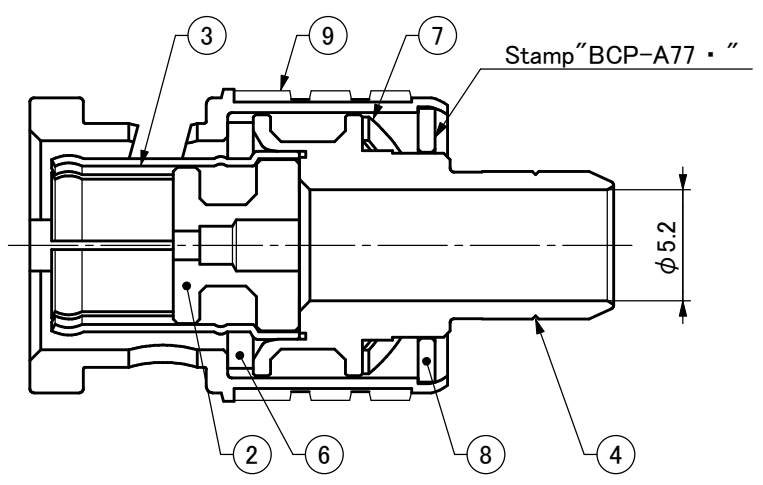
Items	Specified values	Test methods
Corrosion resistance (Salt mist)	Appearance: By visual inspection, without noticeable rust. Contact resistance: 50mΩ or less	The connector shall be subjected continuously to a fine mist of salt solution at a temperature of 35±2 °C for 48h (Salt solution concentration: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

External Appearance



Construction



9	Coupling Sleeve	1	Zinc Alloy Die Casting	Nickel Plating					
8	Washer	1	Brass	Nickel Plating					
7	Spring Washer	1	Beryllium Copper	Nickel Plating					
6	Gasket	1	Silicone Rubber	—					
5	Crimp Sleeve	1	Copper	Tin Plating					
4	Body	1	Brass	Nickel Plating					
3	Outer Contact	1	Beryllium Copper	Nickel Plating					
2	Insulator	1	PTFE	—					
1	Male Center Contact	1	Brass	Gold Plating					
No.	Name of Parts	Pc(s).	Material	Finish					
Title	CRIMP TYPE	PJTN	Unit	Sc.	Tol.	Date	Ver. 1.0	Model	No.
	75 Ω BNC PLUG		mm	2√2:1	±0.1	2011-05-31		BCP-A77	BL419

PRODUCT SPECIFICATIONS

(BCP-C71A)

1/1
SAB156A
Ver. 1.2

CANARE ELECTRIC CO., LTD

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

2. **General specifications**

- (1) **Product name** Crimp type 75 BNC plug
- (2) **Model name** BCP-C71A
- (3) **Applicable standard** JIS* C 5412
- (4) **Nominal impedance** 75 unbalanced
- (5) **Construction** As shown in the drawing (BL156B).
- (6) **Weight** Approx 19g (including center contact and crimp sleeve)
- (7) **Designation** Stamp model name (BCP-C71A) and brand name (CANARE) on coupling sleeve.
- (8) **Packaging** 100pcs/package (262 x 163 x 55mm), 20pcs/package (150 x 50 x 44mm)
- (9) **Applicable cable** 9292, 7731 (BELDEN)
- (10) **Crimp tool** Frame: TC-1, Die: TCD-7CA
*Japanese Industrial Standard

3. **Ratings**

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

4. **Characteristics**

4.1 **Electrical characteristics** As shown in **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 plug, then it shall be terminated with 75 . The measurement frequency up to 2GHz.

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

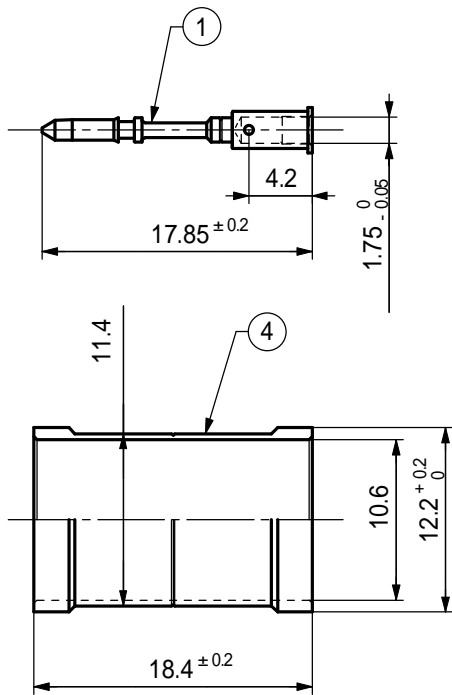
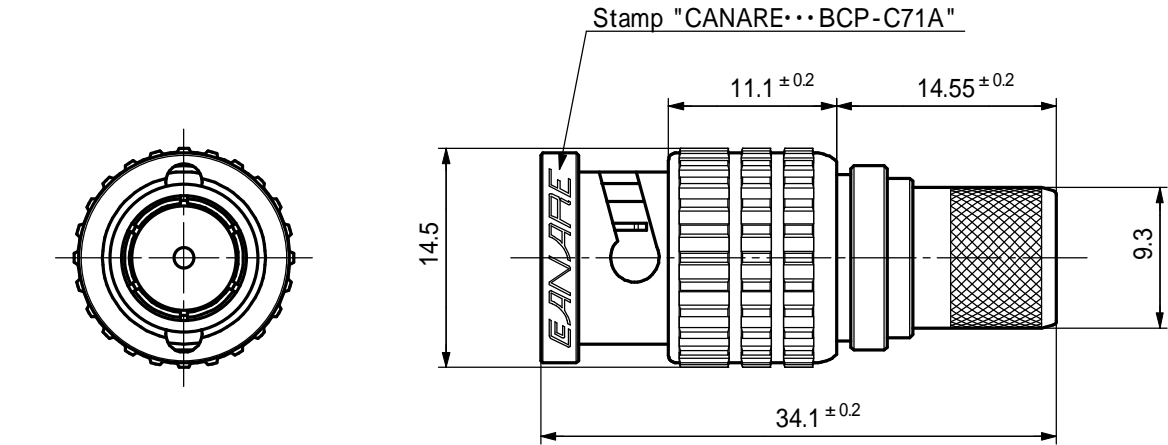
Items	Specified values	Test methods
Intermatability	To be engaged without any abnormality.	The plug and an applicable receptacle shall be engaged.
Fixing force of contact with lock mechanism	No displacement more than 0.5 mm.	Tensile strength of 19.6N shall be applied to the axial direction.
Strength of coupling mechanism	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 245N and rotation strength of 2.5N·m shall be applied.
Cable connecting force	196N or more for 9292	An applied cable shall be attached to the plug, 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**

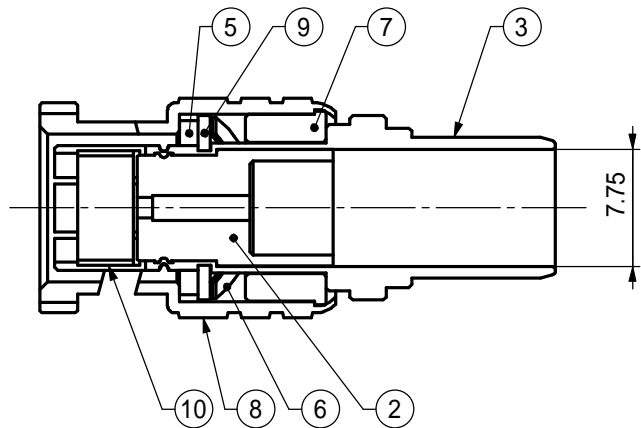
Items	Specified values	Test methods
Corrosion resistance (Salt mist)	Appearance: By visual inspection, without noticeable rust. Contact resistance: 50m or less	The connector shall be subjected continuously to a fine mist of salt solution at a temperature of 35±2 for 48h (Salt solution concentration: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

External Appearance



Construction



10	Inner Spring	1	Beryllium Copper	Nickel Plating					
9	Half-cut Washer	2	Brass	Nickel Plating					
8	Coupling Sleeve	1	Brass	Nickel Plating					
7	Washer	1	Brass	Nickel Plating					
6	Spring Washer	2	Beryllium Copper	Nickel Plating					
5	Gasket	1	Silicone Rubber	-					
4	Crimp Sleeve	1	Brass	Tin Plating					
3	Body	1	Brass	Nickel Plating					
2	Insulator	1	P T F E	-					
1	Male Center Contact	1	Brass	Gold Plating					
No.	Name of Parts	Pc(s).	Material	Finish					
Title	CRIMP TYPE	PJTN	Unit	Sc.	Tol.	Date	Ver. 2.0	Model	No.
	75 BNC PLUG		mm	2:1	± 0.1	2005-07-05		BCP-C71A	BL156B

PRODUCT SPECIFICATIONS

(BCP-C7HD)

SAB234

Ver. 1.1

CANARE ELECTRIC CO., LTD

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

2. General specifications

- | | |
|--------------------------------|---|
| (1) Product name | Crimp type 75 BNC plug |
| (2) Model name | BCP-C7HD |
| (3) Applicable standard | JIS* C 5412 |
| (4) Nominal impedance | 75 unbalanced |
| (5) Construction | As shown in the drawing (BL234A). |
| (6) Weight | Approx 21g (including center contact and crimp sleeve) |
| (7) Designation | Stamp model name (BCP-C7HD) and brand name (CANARE) on coupling sleeve. |
| (8) Packaging | 100pcs/package (262 x 163 x 55mm), 20pcs/package (150 x 50 x 44mm) |
| (9) Applicable cable | L-7CHD (CANARE) |
| (10) Crimp tool | Frame: TC-1, Die: TCD-67HD |
- *Japanese Industrial Standard

3. Ratings

- (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 plug, then it shall be 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 plug and an applicable receptacle shall be engaged.
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	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 245N and rotation strength of 2.5N·m shall be applied.
Cable connecting force	245N or more for L-7CHD	An applied cable shall be attached to the plug, 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.

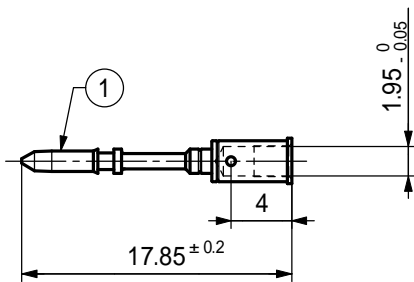
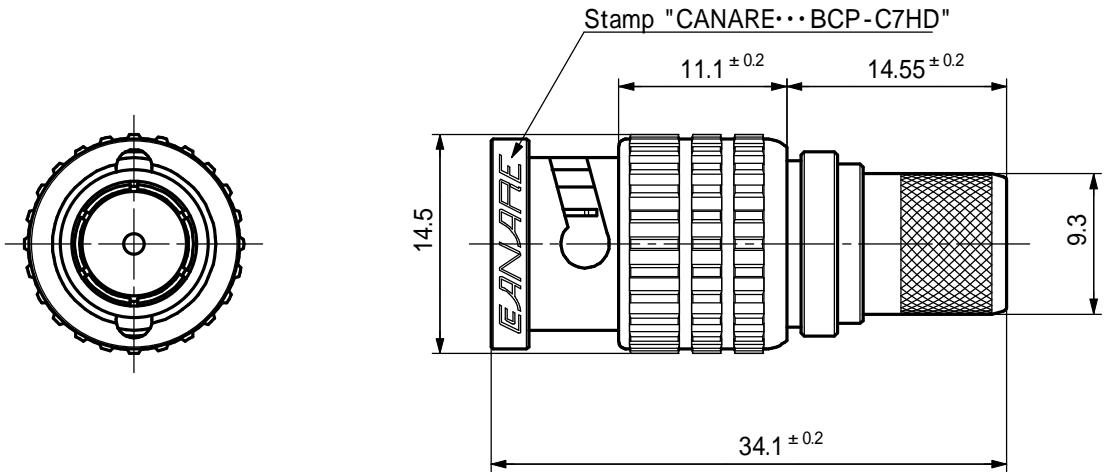
4.3 Environmental characteristics As shown in Table 3

Table 3

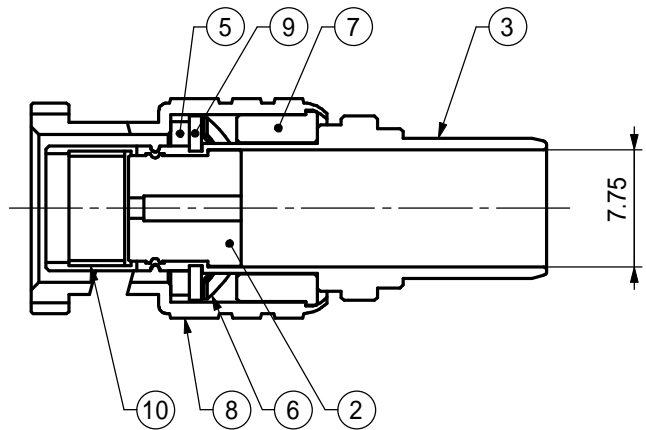
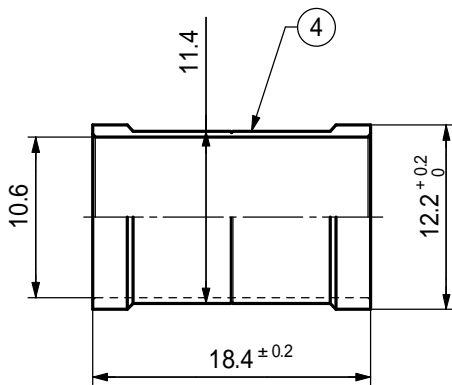
Items	Specified values	Test methods
Corrosion resistance (Salt mist)	Appearance: By visual inspection, without noticeable rust. Contact resistance: 50m or less Voltage proof: 1500V a.c. shall be applied for 1min, Without any damage such as electricbreakdown etc.	The connector shall be subjected continuously 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).

External Appearance



Construction



10	Inner Spring	1	Beryllium Copper	Nickel Plating
9	Half-cut Washer	2	Brass	Nickel Plating
8	Coupling Sleeve	1	Brass	Nickel Plating
7	Washer	1	Brass	Nickel Plating
6	Spring Washer	2	Beryllium Copper	Nickel Plating
5	Gasket	1	Silicone Rubber	-
4	Crimp Sleeve	1	Brass	Tin Plating
3	Body	1	Brass	Nickel Plating
2	Insulator	1	PTFE	-
1	Male Center Contact	1	Brass	Gold Plating

No.	Name of Parts	Pc(s).	Material				Finish		
Title	CRIMP TYPE	PJTN	Unit	Sc.	Tol.	Date	Ver. 2.0	Model	No.
	75 BNC PLUG		mm	2:1	± 0.1	2005-10-18		BCP-C7HD	BL234A

PRODUCT SPECIFICATIONS

(BCP-C7FA)

SAB090B
Ver. 1.2

CANARE ELECTRIC CO., LTD

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

2. General specifications

- (1) **Product name** Crimp type 75 BNC plug
 (2) **Model name** BCP-C7FA
 (3) **Applicable standard** JIS*¹ C 5412
 (4) **Nominal impedance** 75 unbalanced
 (5) **Construction** As shown in the drawing (BL090C).
 (6) **Weight** Approx 19g (including center contact and crimp sleeve)
 (7) **Designation** Stamp model name (BCP-C7FA) and brand name (CANARE) on coupling sleeve.
 (8) **Packaging** 100pcs/package (262 x 163 x 55mm), 20pcs/package (150 x 50 x 44mm)
 (9) **Applicable cable** S-7C-FB (JCS*² 381), 7C-FB, L-7CFB (CANARE)
 (10) **Crimp tool** Frame: TC-1, Die: TCD-7CA
 *¹Japanese Industrial Standard
 *²The Japanese Electric Wire & Cable Maker's Association Standard

3. Ratings

- (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 plug, then it shall be 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 plug and an applicable receptacle shall be engaged.
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	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 245N and rotation strength of 2.5N·m shall be applied.
Cable connecting force	245N or more for 7C-FB	An applied cable shall be attached to the plug, 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.

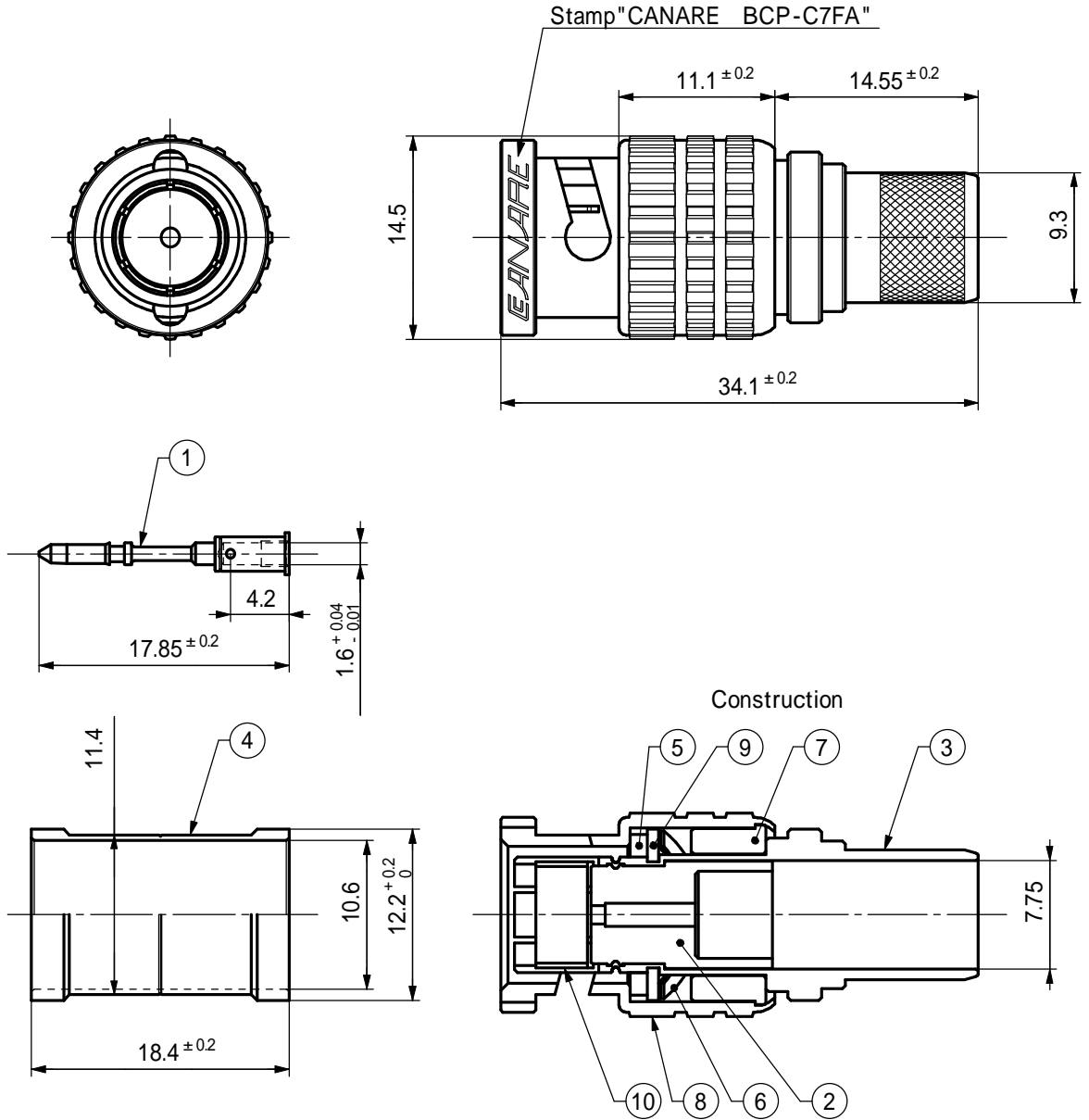
4.3 Environmental characteristics As shown in Table 3

Table 3

Items	Specified values	Test methods
Corrosion resistance (Salt mist)	Appearance: By visual inspection, without noticeable rust. 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±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).

External Appearance



10	Inner Spring	1	Beryllium Copper	Nickel Plating
9	Half-cut Washer	2	Brass	Nickel Plating
8	Coupling Sleeve	1	Brass	Nickel Plating
7	Washer	1	Brass	Nickel Plating
6	Spring Washer	2	Beryllium Copper	Nickel Plating
5	Gasket	1	Silicone Rubber	-
4	Crimp Sleeve	1	Brass	Tin Plating
3	Body	1	Brass	Nickel Plating
2	Insulator	1	PTFE	-
1	Male Center Contact	1	Brass	Gold Plating

No.	Name of Parts	Pc(s)	Material				Finish		
Title	CRIMP TYPE	PJTN	Unit	Sc.	Tol.	Date	Ver. 2.0	Model	No.
	75 BNC PLUG		mm	2:1	± 0.1	2005-07-05		BCP-C7FA	BL090C

PRODUCT SPECIFICATIONS

(BCP-C6HD)

SAB235

Ver. 1.1

CANARE ELECTRIC CO., LTD

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

2. General specifications

- (1) **Product name** Crimp type 75 BNC plug
 (2) **Model name** BCP-C6HD
 (3) **Applicable standard** JIS* C 5412
 (4) **Nominal impedance** 75 unbalanced
 (5) **Construction** As shown in the drawing (BL235A).
 (6) **Weight** Approx 21g (including center contact and crimp sleeve)
 (7) **Designation** Stamp model name (BCP-C6HD) and brand name (CANARE) on coupling sleeve.
 (8) **Packaging** 100pcs/package (262 x 163 x 55mm), 20pcs/package (150 x 50 x 44mm)
 (9) **Applicable cable** L-6CHD (CANARE)
 (10) **Crimp tool** Frame: TC-1, Die: TCD-67HD
 *Japanese Industrial Standard

3. Ratings

- (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 plug, then it shall be 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 plug and an applicable receptacle shall be engaged.
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	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 245N and rotation strength of 2.5N·m shall be applied.
Cable connecting force	245N or more for L-6CHD	An applied cable shall be attached to the plug, 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.

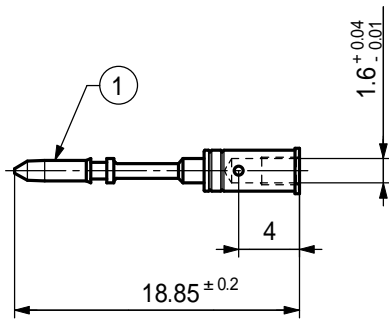
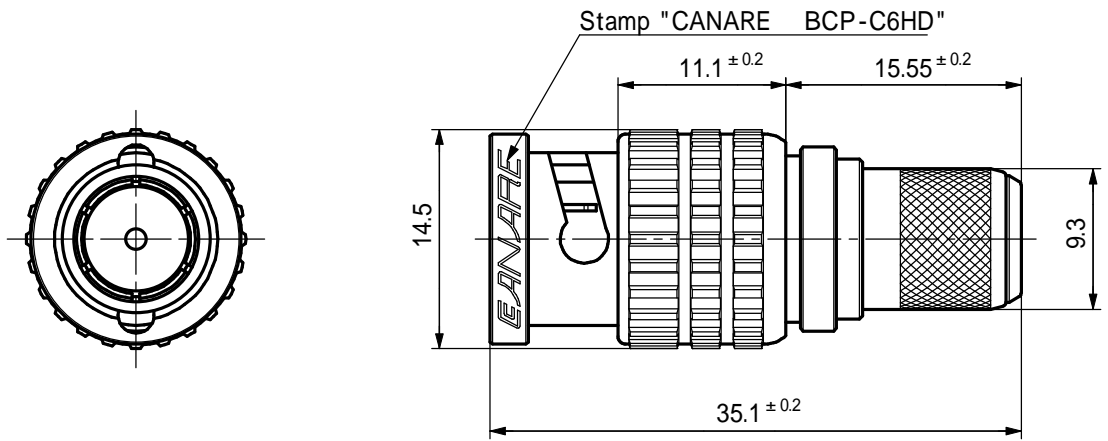
4.3 Environmental characteristics As shown in Table 3

Table 3

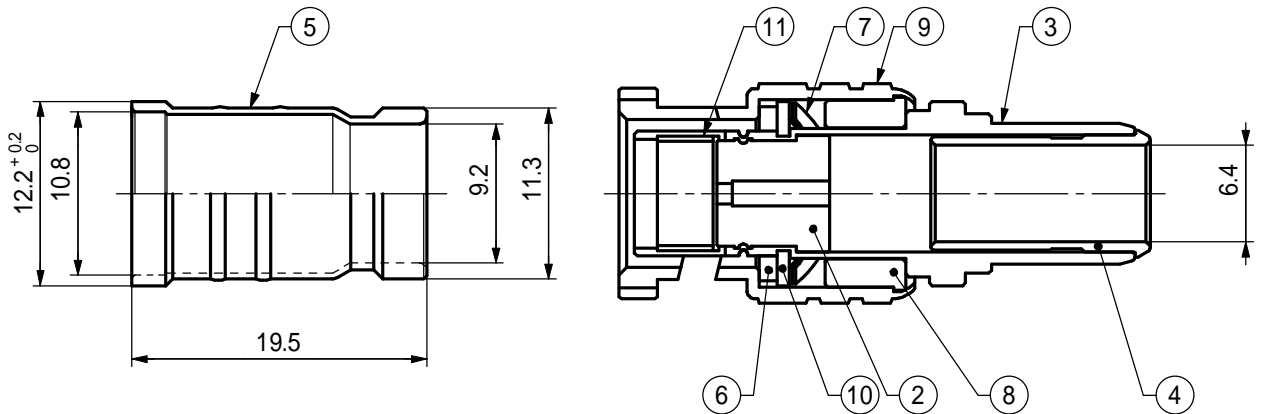
Items	Specified values	Test methods
Corrosion resistance (Salt mist)	Appearance: By visual inspection, without noticeable rust. Contact resistance: 50m or less Voltage proof: 1500V a.c. shall be applied for 1min, Without any damage such as electricbreakdown etc.	The connector shall be subjected continuously 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).

External Appearance



Construction



11	Inner Spring	1	Beryllimu Copper	Nickel Plating
10	Half-cut Washer	2	Brass	Nickel Plating
9	Coupling Sleeve	1	Brass	Nickel Plating
8	Washer	1	Brass	Nickel Plating
7	Spring Washer	2	Beryllimu Copper	Nickel Plating
6	Gasket	1	Silicone Rubber	-
5	Crimp Sleeve	1	Brass	Tin Plating
4	Body2	1	Brass	Nickel Plating
3	Body	1	Brass	Nickel Plating
2	Insulator	1	PTFE	-
1	Male Center Contact	1	Brass	Gold Plating

No.	Name of Parts	Pc(s).	Material				Finish		
Title	CRIMP TYPE	PJTN	Unit	Sc.	Tol.	Date	Ver. 3.0	Model	No.
	75 BNC PLUG		mm	2:1	± 0.1	2005-09-09		BCP-C6HD	BL235B

PRODUCT SPECIFICATIONS

(BCP-C5HD)

SAB380
Ver. 1.0

CANARE ELECTRIC CO., LTD

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

2. General specifications

- | | |
|--------------------------------|---|
| (1) Product name | Crimp type 75 BNC plug |
| (2) Model name | BCP-C5HD |
| (3) Applicable standard | JIS* C 5412 |
| (4) Nominal impedance | 75 unbalanced |
| (5) Construction | As shown in the drawing (BL380). |
| (6) Weight | Approx 15g (including center contact and crimp sleeve) |
| (7) Designation | Stamp model name (BCP-C5HD) and brand name (CANARE) on coupling sleeve. |
| (8) Packaging | 100pcs/package (220 x 158 x 50mm), 20pcs/package (150 x 50 x 44mm) |
| (9) Applicable cable | L-5CHD (CANARE) |
| (10) Crimp tool | Frame: TC-1, Die: TCD-5HD |
- *Japanese Industrial Standard

3. Ratings

- (1) **Operating temperature** -40 ~ +90
 (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 (0 ~ 2GHz) 1.2 or less (0 ~ 3GHz)	An applied cable shall be attached to the plug, then it shall be terminated with 75 . The measurement frequency up to 3GHz.

4.2 Mechanical characteristics As shown in Table 2

Table 2

Items	Specified values	Test methods
Intermatability	To be engaged without any abnormality.	The plug and an applicable receptacle shall be engaged.
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	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 245N and rotation strength of 2.5N·m shall be applied.
Cable connecting force	245N or more for L-5CHD	An applied cable shall be attached to the plug, 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

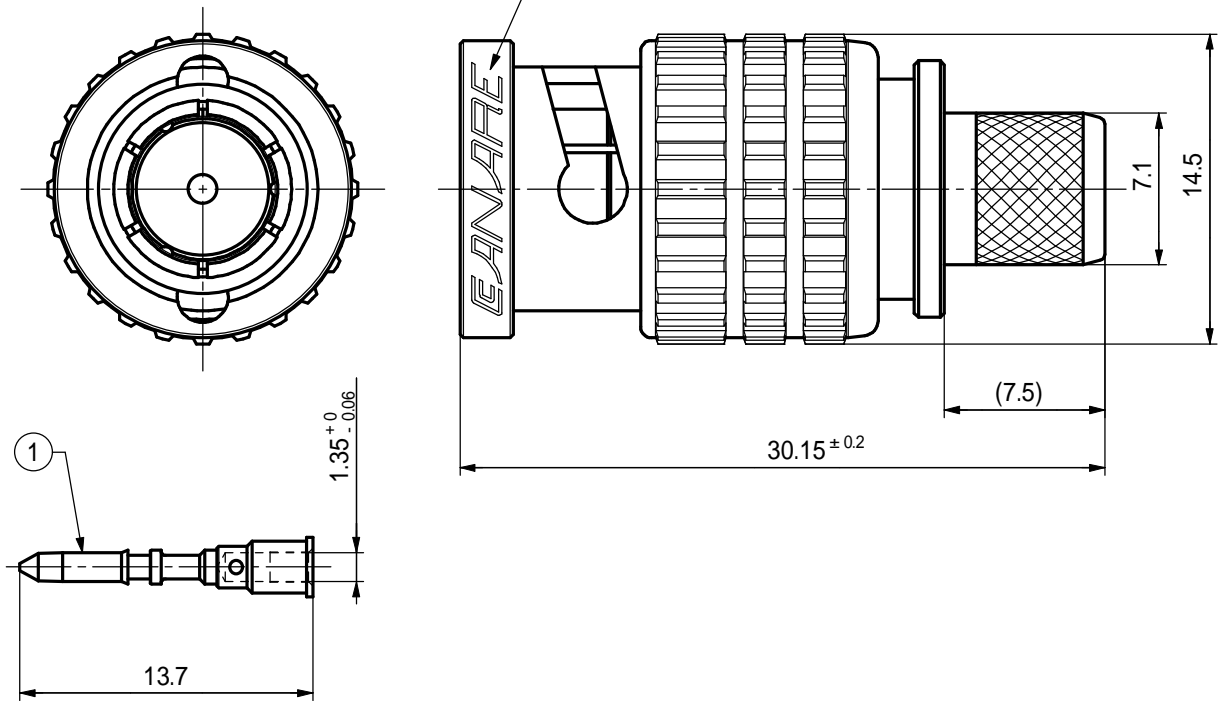
Table 3

Items	Specified values	Test methods
Corrosion resistance (Salt mist)	Contact resistance: 50m or less	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.

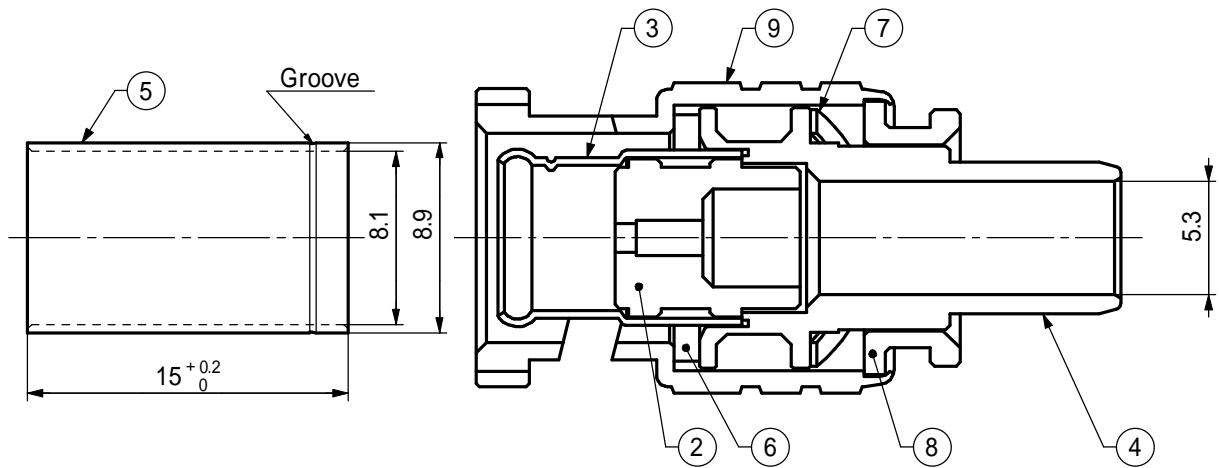
5. **Measurement conditions** Unless otherwise specified, the standard range of atmospheric conditions for making measurements and tests are as follows: Ambient temperature (15 to 35), Relative humidity (25% to 75%), Air pressure (86kPa to 106kPa). If there is any doubt about the results, measurements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

External Appearance

Stamp "CANARE · BCP-C5HD"



Construction



9	Coupling Sleeve	1	Brass	Nickel Plating					
8	Washer	1	Brass	Nickel Plating					
7	Spring Washer	1	Beryllium Copper	Nickel Plating					
6	Gasket	1	Silicone Rubber	-					
5	Crimp Sleeve	1	Copper	Tin Plating					
4	Body	1	Brass	Nickel Plating					
3	Outer Contact	1	Beryllium Copper	Nickel Plating					
2	Insulator	1	PTFE	-					
1	Male Center Contact	1	Brass	Gold Plating					
No.	Name of Parts	Pc(s).	Material	Finish					
Title	CRIMP TYPE	PJTN	Unit	Sc.	Tol.	Date	Ver. 1.0	Model	No.
	75 BNC PLUG		mm	2 2:1	± 0.1	2008-02-25		BCP-C5HD	BL380

PRODUCT SPECIFICATIONS

(BCP-C1)

SAB135A
Ver. 1.1

CANARE ELECTRIC CO., LTD
BNC plug.

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

2. General specifications

- | | |
|--------------------------------|---|
| (1) Product name | 75 BNC plug |
| (2) Model name | BCP-C1 |
| (3) Applicable standard | JIS* C 5412 |
| (4) Nominal impedance | 75 unbalanced |
| (5) Construction | As shown in the drawing (BL135). |
| (6) Weight | Approx 9.4g (including crimp sleeve) |
| (7) Designation | Stamp model name (BCP-C1) and brand name (CANARE) on coupling sleeve. |
| (8) Packaging | 100pcs/package (220 x 160 x 36mm), 20pcs/package (150 x 50 x 31mm) |
| (9) Applicable cable | 1.5C-2V (JIS C 3501), L-1.5C2VS, V3-1.5C, V4-1.5C, V5-1.5C (CANARE) |
| (10) Crimp tool | Frame: TC-1, Die: TCD-1D, TCD-1DA, TCD-1DB
Center contact: soldering |
- *Japanese Industrial Standard

3. Ratings

- (1) **Operating temperature** -40 ~ +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 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 plug, then it shall be terminated with 75 . The measurement 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 plug and an applicable receptacle shall be engaged.
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	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 245N and rotation strength of 2.5N·m shall be applied.
Cable connecting force	49N or more for 1.5C-2V	An applied cable shall be attached to the plug, 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.

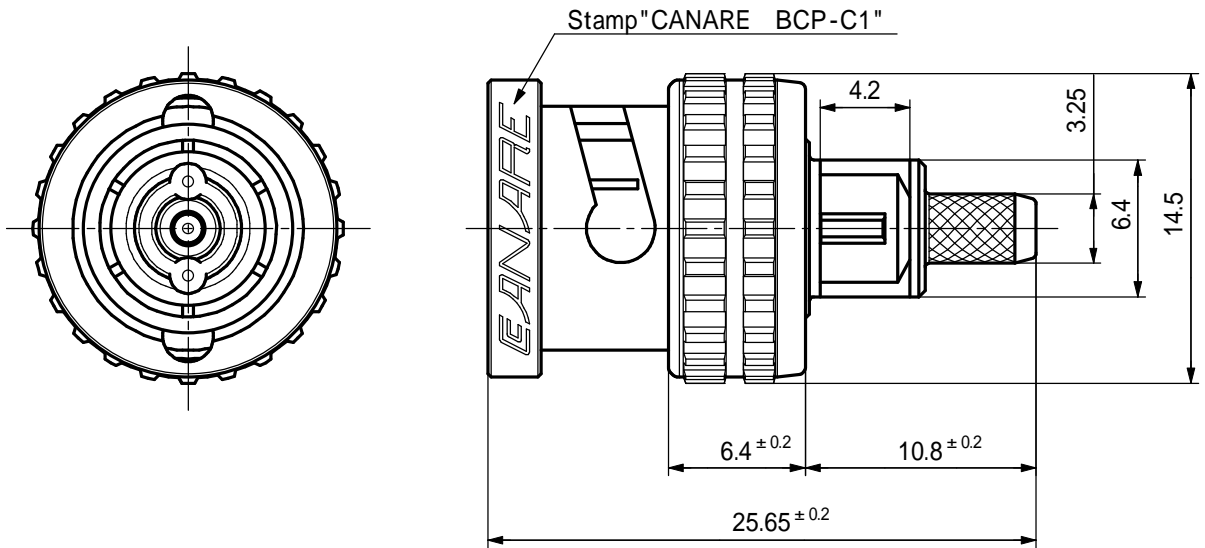
4.3 Environmental characteristics As shown in Table 3

Table 3

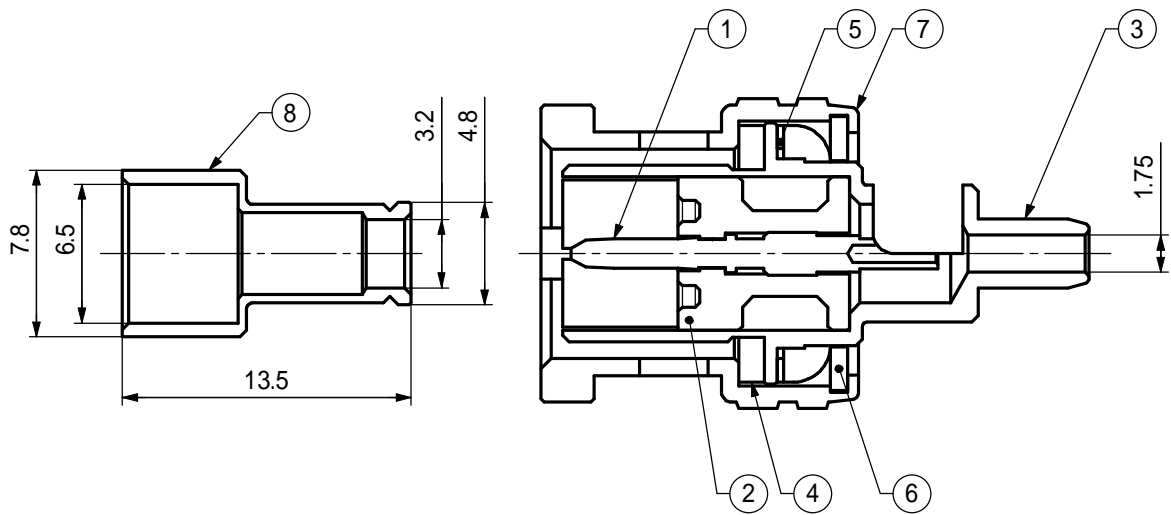
Items	Specified values	Test methods
Corrosion resistance (Salt mist)	Appearance: By visual inspection, without noticeable rust. Contact resistance: 50m or less	The connector shall be subjected continuously to a fine mist of salt solution at a temperature of 35±2 for 48h (Salt solution concentration: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

External Appearance



Construction



8	Crimp Sleeve	1	Brass	Tin Plating					
7	Coupling Sleeve	1	Brass	Nickel Plating					
6	Washer	1	Brass	Nickel Plating					
5	Spring Washer	1	Beryllium Copper	Nickel Plating					
4	Gasket	1	Silicone Rubber	-					
3	Body	1	Brass	Nickel Plating					
2	Insulator	1	Amorphous Polyorefin	-					
1	Male Center Contact	1	Brass	Gold Plating					
No.	Name of Parts	Pc(s).	Material	Finish					
Title	CRIMP TYPE	PJTN	Unit	Sc.	Tol.	Date	Ver. 1.0	Model	No.
	75 BNC PLUG		mm	2 2:1	± 0.1	1997-08-18		BCP-C1	BL135

PRODUCT SPECIFICATIONS

(BCP-LC5F)

SAB146
Ver. 1.3CANARE ELECTRIC CO., LTD
BNC plug.

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

2. General specifications

- (1) **Product name** Crimp type 75 BNC right angle plug
 (2) **Model name** BCP-LC5F
 (3) **Applicable standard** Japanese Industrial Standards (JIS) C 5412
 (4) **Nominal impedance** 75 unbalanced
 (5) **Construction** As shown in the drawing (BL146B).
 (6) **Weight** Approx 21g (including center contact and crimp sleeve)
 (7) **Designation** Stamp model name (BCP-LC5F) and brand name (CANARE) on coupling sleeve.
 (8) **Packaging** 20pcs/package (158 x 132 x 40mm)
 (9) **Applicable cable** 5C-FB (JCS*² 381), S-5C-FB (JIS C 3502), L-5CF, L-5CFB, LS-5CFB, L-5CFBA (CANARE)
 (10) **Crimp tool** Frame: TC-1, Die: TCD-5CF, TCD-55FA
 *¹Japanese Industrial Standard
 *²The Japanese Electric Wire & Cable Maker's Association Standard

3. Ratings

- (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 plug, then it shall be terminated with 75 . The measurement frequency up to 2GHz.

4.2 Mechanical characteristics As shown in Table 2

Table 2

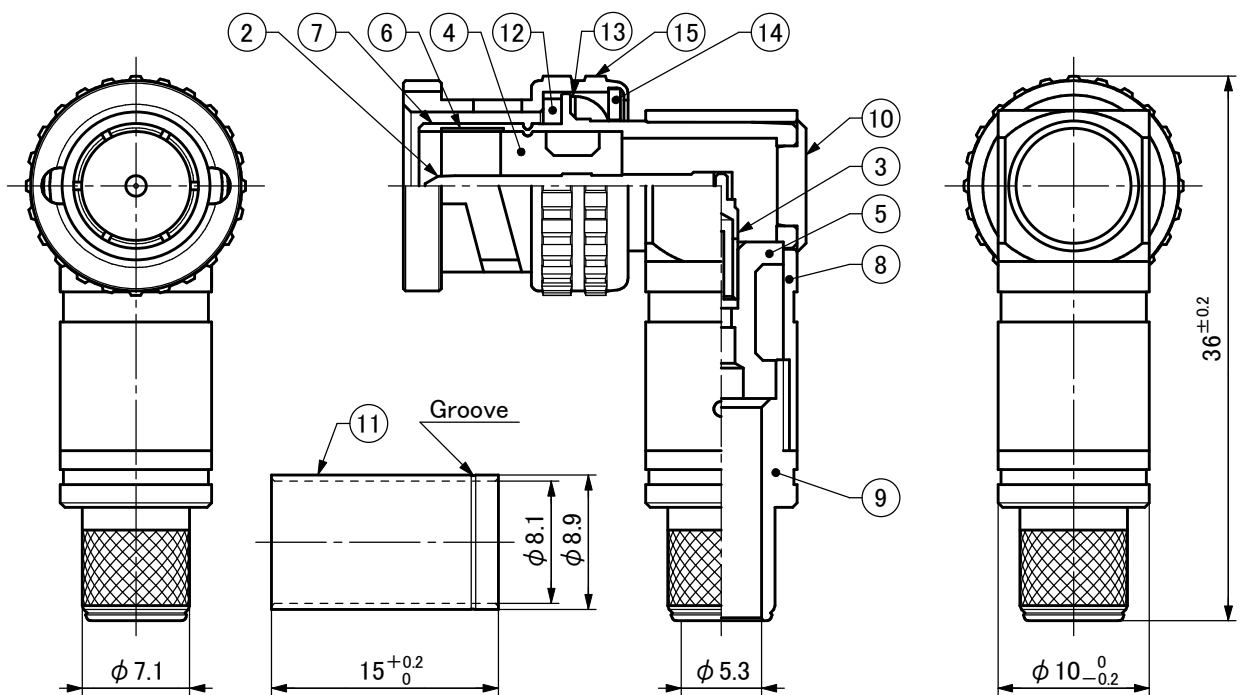
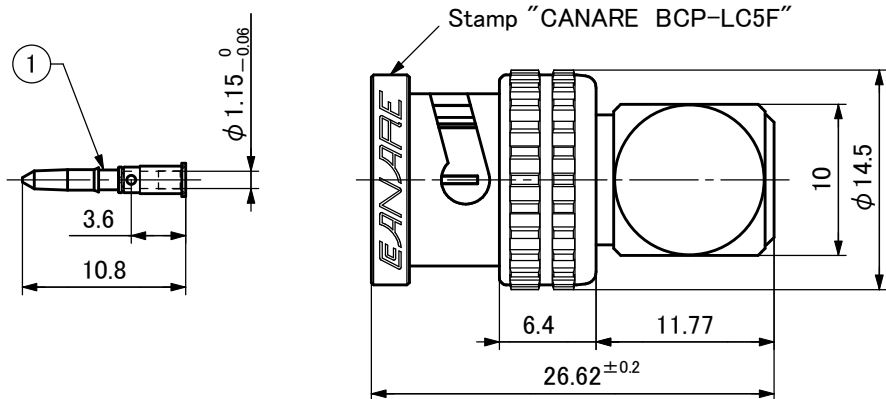
Items	Specified values	Test methods
Intermatability	To be engaged without any abnormality.	The plug and an applicable receptacle shall be engaged.
Fixing force of contact with lock mechanism	No displacement more than 0.5 mm.	Tensile strength of 19.6N shall be applied to the axial direction.
Strength of coupling mechanism	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 245N and rotation strength of 2.5N·m shall be applied.
Cable connecting force	196N or more for S-5C-FB	An applied cable shall be attached to the plug, 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)	Appearance: By visual inspection, without noticeable rust. 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±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).



15	Coupling Sleeve	1	Brass	Nickel Plating					
14	Washer	1	Brass	Nickel Plating					
13	Spring Washer	1	Beryllium Copper	Nickel Plating					
12	Gasket	1	Silicone Rubber	—					
11	Crimp Sleeve	1	Copper	Tin Plating					
10	Body 4	1	Brass	Nickel Plating					
9	Body 3	1	Brass	Nickel Plating					
8	Body 2	1	Brass	Nickel Plating					
7	Body	1	Brass	Nickel Plating					
6	Inner Spring	1	Beryllium Copper	Nickel Plating					
5	Insulator 2	1	PTFE	—					
4	Insulator	1	PTFE	—					
3	Female Center Contact	1	Phosphor Bronze	Gold Plating					
2	Male Center Contact	1	Brass	Gold Plating					
1	Male Center Contact	1	Brass	Gold Plating					
No.	Name of Parts	Pc(s).	Material	Finish					
Title CLIMP TYPE 75Ω		PJTN	Unit	Sc.	Tol.	Date	Ver. 2.0	Model	No.
BNC RIGHT ANGLE PLUG			mm	2:1	±0.1	2005-02-09		BCP-LC5F	BL146B

PRODUCT SPECIFICATIONS

(BCP-LC5)

SAB145

Ver. 1.1

CANARE ELECTRIC CO., LTD

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

2. General specifications

- | | |
|--------------------------------|--|
| (1) Product name | Crimp type 75 BNC right angle plug |
| (2) Model name | BCP-LC5 |
| (3) Applicable standard | JIS* C 5412 |
| (4) Nominal impedance | 75 unbalanced |
| (5) Construction | As shown in the drawing (BL145A). |
| (6) Weight | Approx 21g (including center contact and crimp sleeve) |
| (7) Designation | Stamp model name (BCP-LC5) and brand name (CANARE) on coupling sleeve. |
| (8) Packaging | 20pcs/package (158 x 132 x 40mm) |
| (9) Applicable cable | 5C-2V(JIS C 3501), L-5C2VS, L-5C2V (CANARE) |
| (10) Crimp tool | Frame: TC-1, Die: TCD-35CA
*Japanese Industrial Standard |

3. Ratings

- | | |
|----------------------------------|------------|
| (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 1 min 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 plug, then it shall be terminated with 75 . The measurement frequency up to 2GHz.

4.2 Mechanical characteristics As shown in Table 2

Table 2

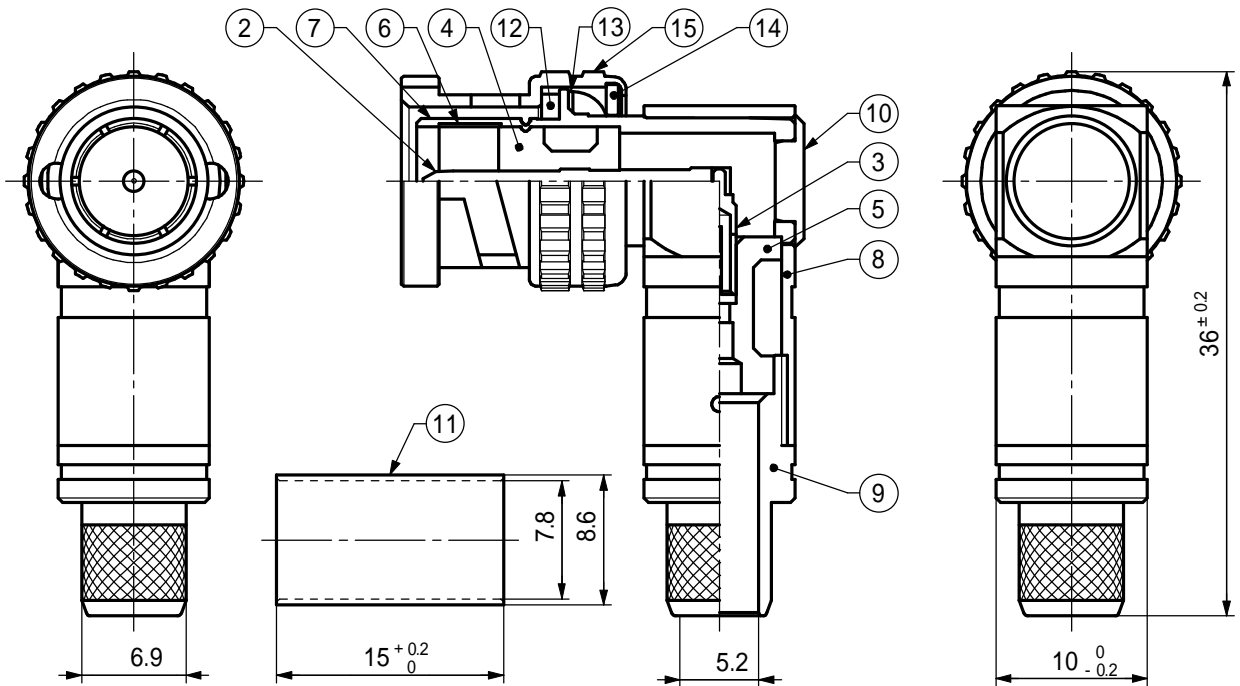
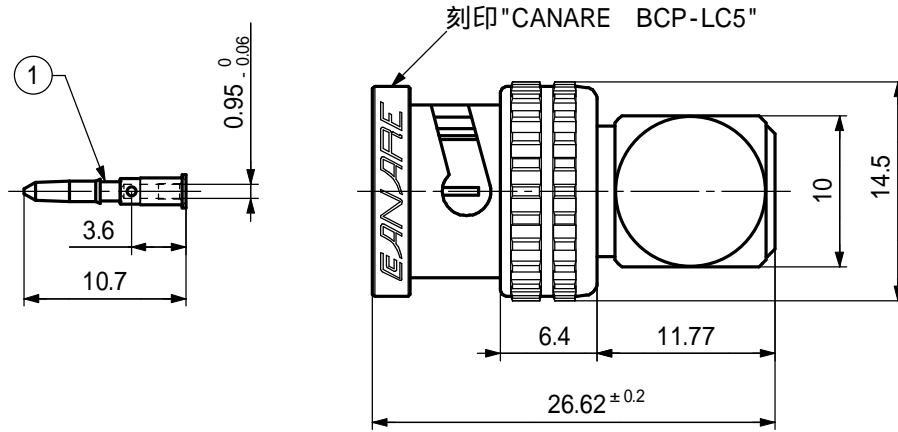
Items	Specified values	Test methods
Intermatability	To be engaged without any abnormality.	The plug and an applicable receptacle shall be engaged.
Fixing force of contact with lock mechanism	No displacement more than 0.5 mm.	Tensile strength of 19.6N shall be applied to the axial direction.
Strength of coupling mechanism	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 245N and rotation strength of 2.5N·m shall be applied.
Cable connecting force	245N or more for 5C-2V	An applied cable shall be attached to the plug, 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)	Appearance: By visual inspection, without noticeable rust. 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±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).



15	Coupling Sleeve	1	Brass	Nickel Plating					
14	Washer	1	Brass	Nickel Plating					
13	Spring Washer	1	Beryllium Copper	Nickel Plating					
12	Gasket	1	Silicone Rubber	-					
11	Crimp Sleeve	1	Copper	Tin Plating					
10	Body 4	1	Brass	Nickel Plating					
9	Body 3	1	Brass	Nickel Plating					
8	Body 2	1	Brass	Nickel Plating					
7	Body	1	Brass	Nickel Plating					
6	Inner Spring	1	Beryllium Copper	Nickel Plating					
5	Insulator 2	1	PTFE	-					
4	Insulator	1	PTFE	-					
3	Female Center Contact	1	Phosphor Bronze	Gold Plating					
2	Male Center Contact	1	Brass	Gold Plating					
1	Male Center Contact	1	Brass	Gold Plating					
No.	Name of Parts	Pc(s)	Material	Finish					
Title CLIMP TYPE 75		PJTN	Unit	Sc.	Tol.	Date	Ver. 2.0	Model	No.
BNC RIGHT ANGLE PLUG			mm	2:1	± 0.1	2005-02-09		BCP-LC5	BL145A

PRODUCT SPECIFICATIONS

(BCP-LC3F)

SAB212

Ver. 1.1

CANARE ELECTRIC CO., LTD

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

2. General specifications

- | | |
|-------------------------|---|
| (1) Product name | Crimp type 75 BNC right angle plug |
| (2) Model name | BCP-LC3F |
| (3) Applicable standard | JIS* C 5412 |
| (4) Nominal impedance | 75 unbalanced |
| (5) Construction | As shown in the drawing (BL212A). |
| (6) Weight | Approx 21g (including center contact and crimp sleeve) |
| (7) Designation | Stamp model name (BCP-LC3F) and brand name (CANARE) on coupling sleeve. |
| (8) Packaging | 20pcs/package (158 x 132 x 40mm) |
| (9) Applicable cable | L-3CF, L-3CFB, LS-3CFB (CANARE) |
| (10) Crimp tool | Frame: TC-1, Die: TCD-35CA
*Japanese Industrial Standard |

3. Ratings

- (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 plug, then it shall be terminated with 75 . The measurement frequency up to 2GHz.

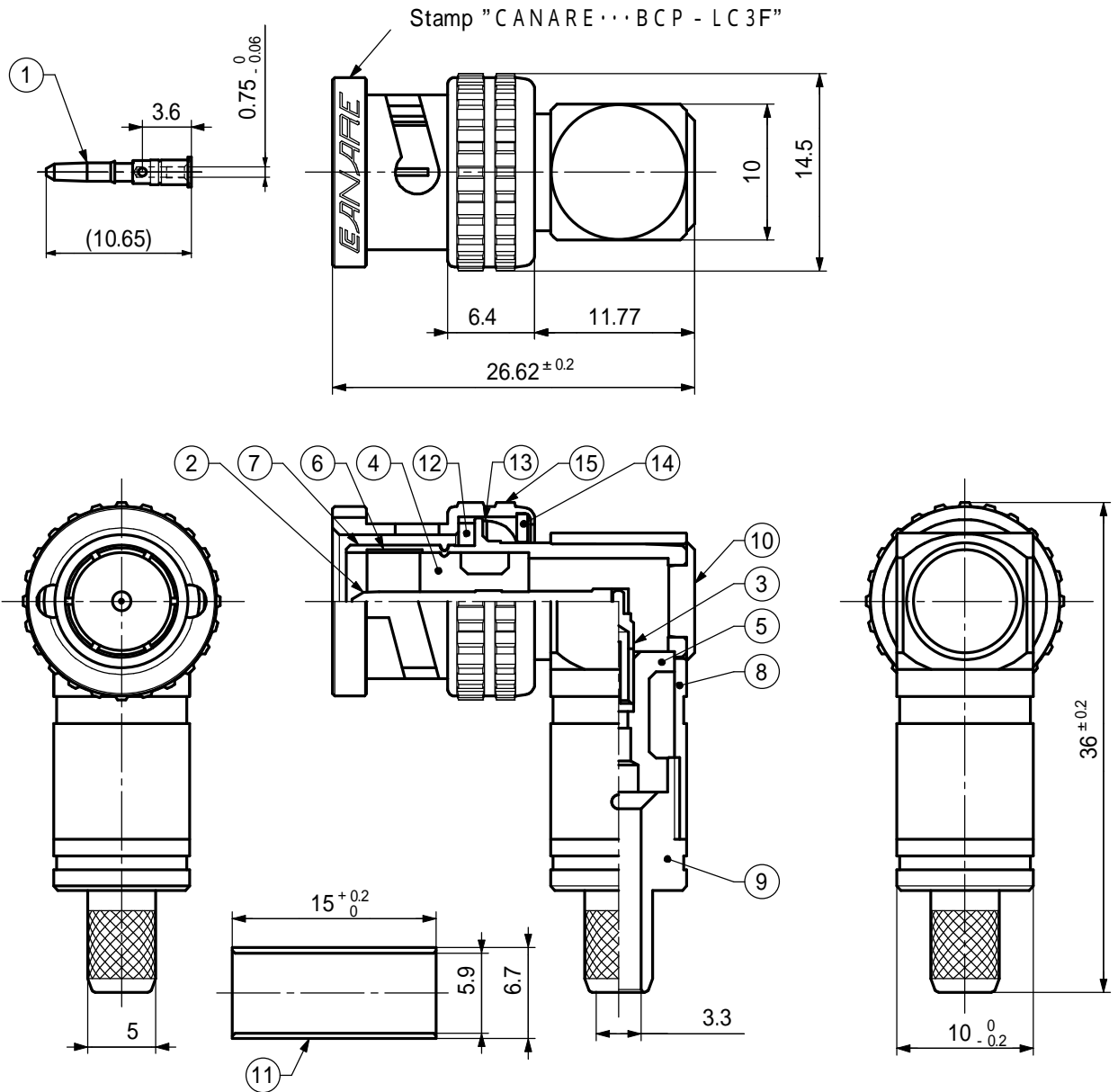
4.2 Mechanical characteristics As shown in Table 2

Table 2		
Items	Specified values	Test methods
Intermatability	To be engaged without any abnormality.	The plug and an applicable receptacle shall be engaged.
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	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 245N and rotation strength of 2.5N·m shall be applied.
Cable connecting force	196N or more for L-3CFB 147N or more for LS-3CFB	An applied cable shall be attached to the plug, 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 Voltage proof: 1500V a.c. shall be applied for 1min, Without any damage such as electric breakdown etc. 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).



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14	Washer	1	Brass	Nickel Plating			
13	Spring Washer	1	Beryllium Copper	Nickel Plating			
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11	Crimp Sleeve	1	Copper	Tin Plating			
10	Body 4	1	Brass	Nickel Plating			
9	Body 3	1	Brass	Nickel Plating			
8	Body 2	1	Brass	Nickel Plating			
7	Body	1	Brass	Nickel Plating			
6	Inner Spring	1	Beryllium Copper	Nickel Plating			
5	Insulator 2	1	PTFE	-			
4	Insulator	1	PTFE	-			
3	Female Center Contact	1	Phosphor Bronze	Gold Plating			
2	Male Center Contact	1	Brass	Gold Plating			
1	Male Center Contact	1	Brass	Gold Plating			
No.	Name of Parts	Pc(s)	Material	Finish			
Title CLIMP TYPE 75		PJTN	Unit Sc.	Tol.	Date Ver. 2.0	Model	No.
BNC RIGHT ANGLE PLUG			mm 2:1	±0.1	2005-01-19	BCP-LC3F	BL212A

PRODUCT SPECIFICATIONS

(BCP-LC3)

SAB144

Ver. 1.2

CANARE ELECTRIC CO., LTD

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

2. General specifications

- | | |
|-------------------------|--|
| (1) Product name | Crimp type 75 BNC right angle plug |
| (2) Model name | BCP-LC3 |
| (3) Applicable standard | JIS* C 5412 |
| (4) Nominal impedance | 75 unbalanced |
| (5) Construction | As shown in the drawing (BL144A). |
| (6) Weight | Approx 21g (including center contact and crimp sleeve) |
| (7) Designation | Stamp model name (BCP-LC3) and brand name (CANARE) on coupling sleeve. |
| (8) Packaging | 20pcs/package (158 x 132 x 40mm) |
| (9) Applicable cable | 3C-2V(JIS C 3501), L-3C2VS, L-3C2V (CANARE) |
| (10) Crimp tool | Frame: TC-1, Die: TCD-35CA
*Japanese Industrial Standard |

3. Ratings

- | | |
|---------------------------|------------|
| (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 1 min 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 plug, then it shall be terminated with 75 . The measurement frequency up to 2GHz.

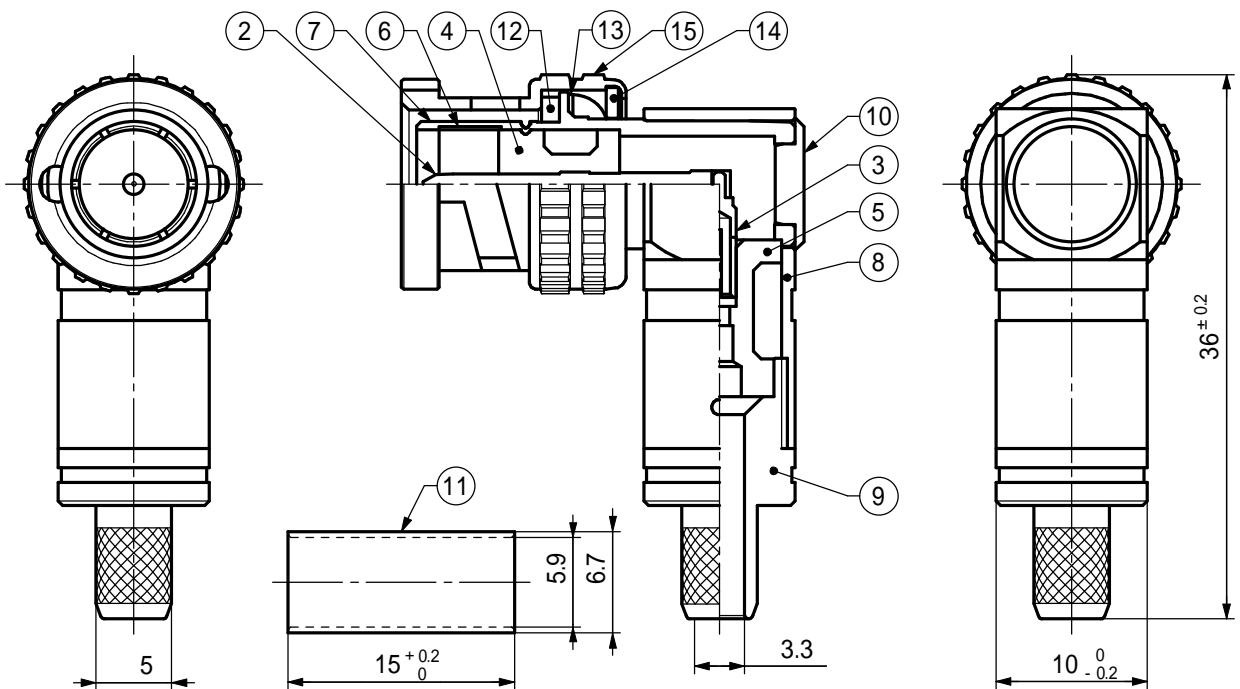
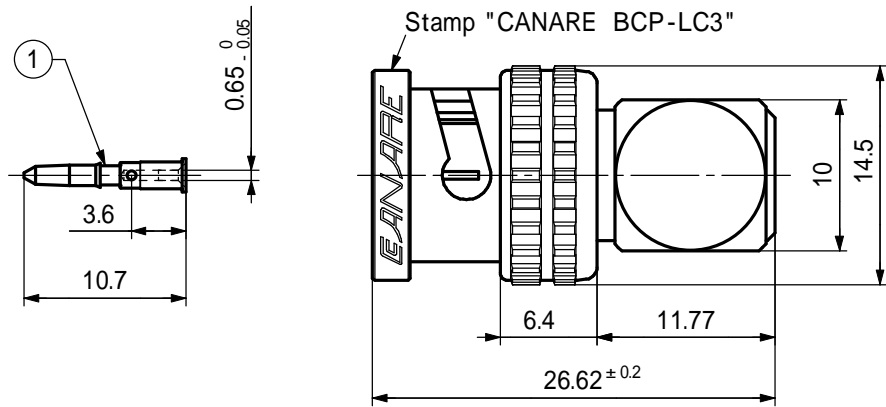
4.2 Mechanical characteristics As shown in Table 2

Table 2		
Items	Specified values	Test methods
Intermatability	To be engaged without any abnormality.	The plug and an applicable receptacle shall be engaged.
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	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 245N and rotation strength of 2.5N·m shall be applied.
Cable connecting force	196N or more for 3C-2V	An applied cable shall be attached to the plug, 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)	Appearance: By visual inspection, without noticeable rust. 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±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).



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6	Inner Spring	1	Beryllium Copper	Nickel Plating
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4	Insulator	1	PTFE	-
3	Female Center Contact	1	Phosphor Bronze	Gold Plating
2	Male Center Contact	1	Brass	Gold Plating
1	Male Center Contact	1	Brass	Gold Plating

No.	Name of Parts	Pc(s)	Material				Finish		
Title CLIMP TYPE 75		PJTN	Unit	Sc.	Tol.	Date	Ver. 2.0	Model	No.
BNC RIGHT ANGLE PLUG			mm	2:1	± 0.1	2005-02-09		BCP-LC3	BL144A