

# Triaxial Connector Instruction Manual

## (CCM4-PK/PKR, CCF4-JK/JKR)

Thank you for purchasing a CANARE Product.

### Note

- Before using this connector, please be sure to read this instruction manual for the correct use.
- Please keep this manual for future reference.

### Warning

- Please follow this instruction manual exactly when terminating a cable.
- Please do not damage, forcefully bend or twist the cable.
- Anyone except electricians /electrical engineers are strictly prohibited from disassembling, repairing, or modifying this connector.
- Please be sure locking device is in place when connectors are mated.
- Appropriate protection should be taken if used outside.

### Specification

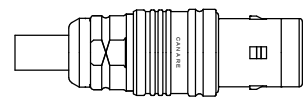
- Model CCM4-PK / CCM4-PKR / CCF4-JK / CCF4-JKR
- Applicable Cable Belden: 9267, 1856A, 1857A  
Gecco: LVT61859, VT61859
- Withstand Voltage 1000VAC, 1 minute (between respective conductors; with a cable connected)
- Insulation Resistance 5000M $\Omega$  or above at 500VDC
- Characteristic Impedance 75  $\Omega$

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<http://canare.co.jp/>

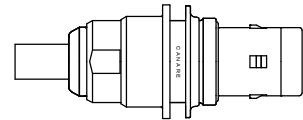


### Product Lineup

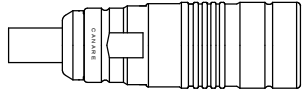
#### CCM4-PK



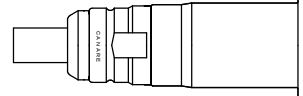
#### CCM4-PKR



#### CCF4-JK

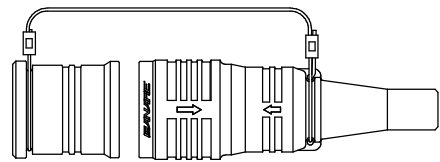


#### CCF4-JKR



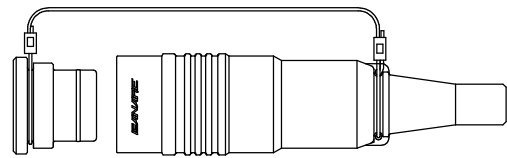
#### CB22

(for CCM4-PK)



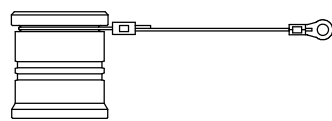
#### CB23

(for CCF4-JK)



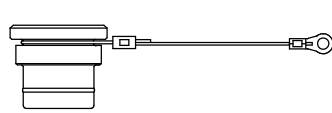
#### DCM03

(for CCM4-PKR)



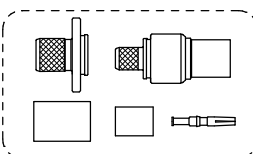
#### DCM02

(for CCF4-JKR)



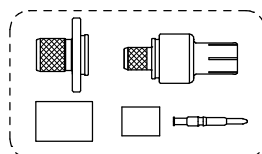
#### Retro-fit BN9127

(for CCF4-JK/JKR)

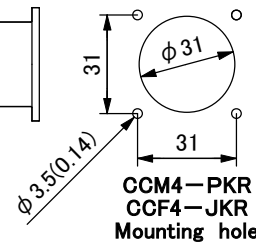


#### Retro-fit BN9128

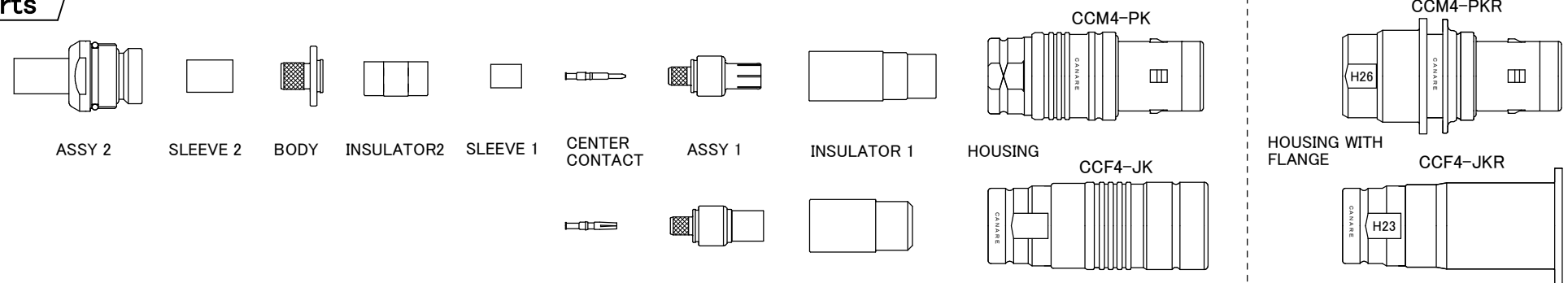
(for CCM4-PK/PKR)



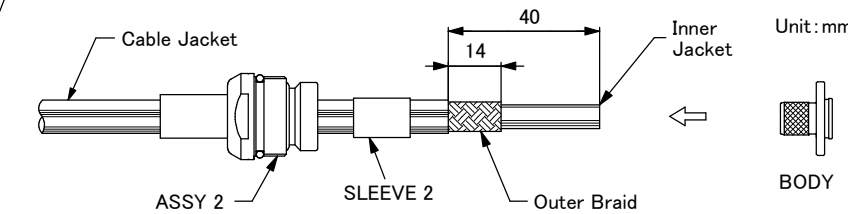
**Crimping TOOL : TC-1**  
**Crimping Die : TCD-316C**



### Parts



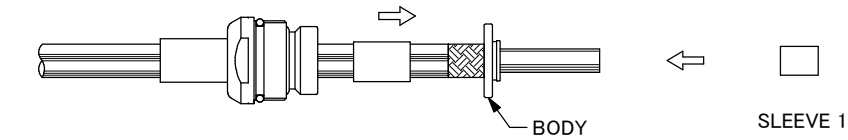
### 1



**Tools / Wrenches: 19mm, 23mm (CCM4-PKR, 26mm) / Crimping Tool & Die: TC-1 & TCD-316C**

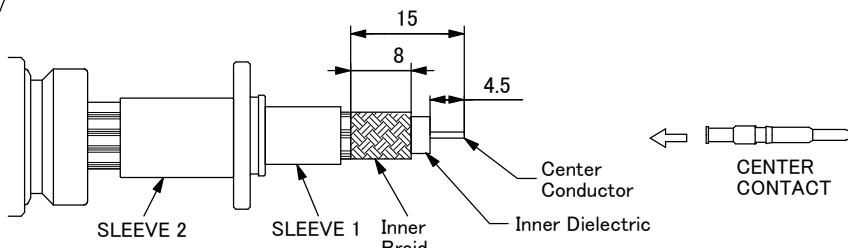
- Diagram references CCM4-PK but instructions & dimensions can be used for all models.
- Slide ASSY 2 and SLEEVE 2 over the cable; remove Cable Jacket and Outer Braid of cable as shown in the diagram.
- If you want to use cable boots CB22 or CB23, first you need to insert the boot onto the cable.
- Remove completely the shavings and chips from Outer Braid.

### 2



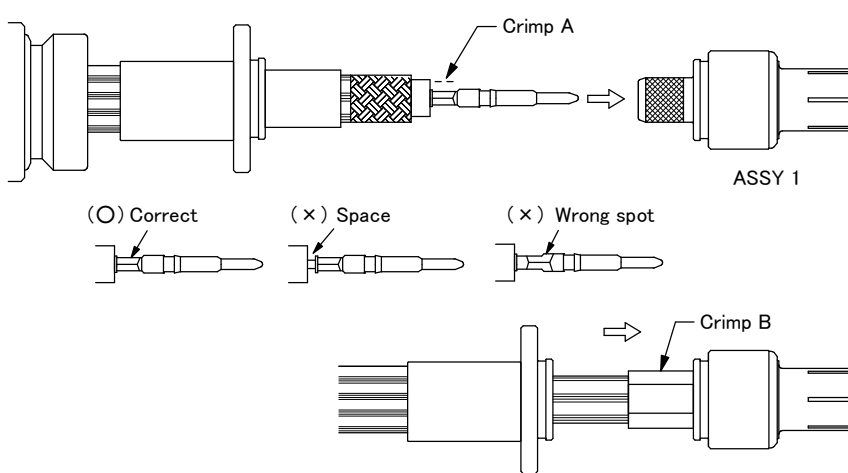
- Insert the BODY into the cable as show according to the diagram (under the Outer Braid), and slide SLEEVE2 over Outer Braid.
- (Note) DO NOT Crimp SLEEVE 2 yet. Trim excess braid.
- Slide SLEEVE 1 onto the cable.

### 3



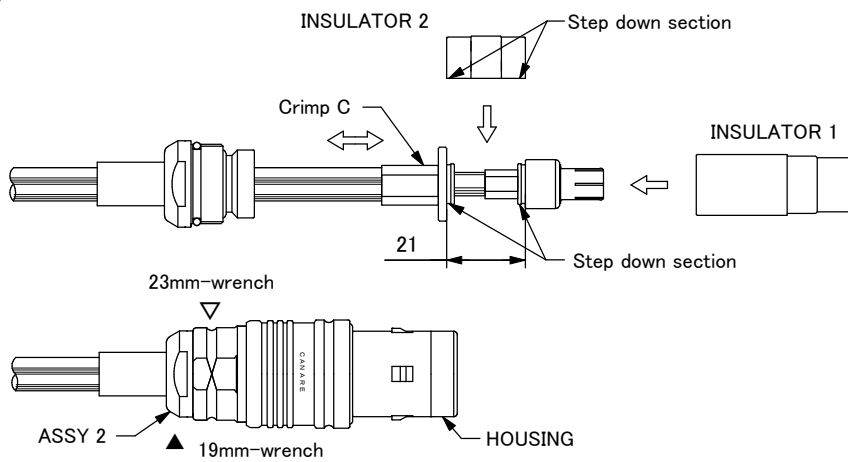
- Strip Inner Jacket, Inner Braid and Inner Dielectric, expose Center Conductor to the dimensions specified in the diagram.
- (Note 1) When Center Conductor is stranded, twist the strands in the same direction after cutting the insulation.
- (Note 2) Be careful not to nick or damage Center Conductor. Clean up any insulator scraps that may still remain attached to the Center Conductor.
- (Note 3) Clean up any braid scraps that may still remain attached to the Inner dielectric.

### 4



- Place CENTER CONTACT on Center Conductor. Using the TC-1 hand tool and TCD-316C die set, crimp CENTER CONTACT as shown in the diagram (Crimp A). Do not leave a gap between rear of the pin (or socket) and cable Inner dielectric end. Also, do not crimp stepped part in the base of Center Contact as shown in the diagram.
- (Note) Measure crimp height to determine whether the CENTER CONTACT was crimped correctly. Be sure to remove splinters and remnants before measuring. The reference value of the crimp height should be 1.40-1.47mm(0.055~0.058 in). If greater or less than the reference value, adjust TC-1 hand tool.
- Flair Inner braided shield to aid insertion of connector body. Push cable with crimped pin (or socket) into ASSY 1 until you detect an audible "snap".
- (Note) Jamming the pin (or socket) may bend center conductor and damage Connector dielectric.
- Lightly tug cable (20N:4.5lbf) to verify that pin (or socket) is properly seated in the ASSY1.
- Slide SLEEVE 1 up against ASSY 1 and place into the die. Complete assembly by crimping down on SLEEVE 1 to form hex (Crimp B).

### 5



- Set INSULATOR2 between BODY and ASSY1, snap in place. Make sure to fit into recesses of BODY and ASSY1.
- Slide SLEEVE2 up against BODY and place in the die. Complete assembly by crimping down on SLEEVE2 to form hex (Crimp C).
- Slide INSULATOR1 over ASSY1 and INSULATOR2 see diagram.
- Drive HOUSING over completed assembly and tighten ASSY2 and HOUSING using open wrenches size 19mm and 23mm (or 26mm for CCM4-PKR) at  $\nabla$  and  $\blacktriangledown$ . \*Apply torque force 60-80kg $\cdot$ cm (52-70lb $\cdot$ in).
- Finally, check the size of the assembled connector and status of the connection.

### Note

- Make sure shavings and chips from inside and outside braids do not enter inside the connector, as it may cause a short circuit.
- When tightening the ASSY2, use only designated wrenches, and apply the torque specified.