

TNC Style Connector

TNC Series



Characteristic

50 Ω

Frequency Range DC to 2GHz

Lock Type

Screw

FEATURE

- · TNC series is a thread coupling coaxial connector which is modified BNC style connector.
- · Due to the thread coupling, it is superior to BNC style connector in vibration load.
- · Other electrical and mechanical characteristics are same as BNC style connector.
- · Recommended toque of coupling is $45 \sim 68.6 \text{N} \cdot \text{cm}$.



CONFORMING STANDARD

MIL-PRF-39012

SPECIFICATIONS

Characteristic Impedance	50 Ω
Rated Voltage	500 V AC (r.m.s.)
Dielectric Withstanding Voltage	1,500 V AC (r.m.s.) / 1 minute
Insulation Resistance	1,000 MΩ min. at 500V DC
Contact Resistance	3 mΩ max.
V.S.W.R.	1.3 max. (DC ~ 2GHz)
Operating Temperature	-55 ∼ +85°C

^{*} The specifications are typical but may not apply to all connectors. Please check the specifications on each item with its drawing from us when you use.

MATERIAL/FINISH

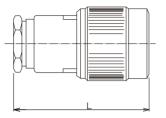


Item	Material / Finish
Shell	Copper Alloy / Ni or Ag Plating
Contact (Female)	Copper Alloy / Ag or Au Plating
Contact (Male)	Copper Alloy /Ag or Au Plating
Insulator	PTFE
Gasket	Silicon Rubber

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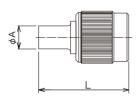
Straight Cable Plug

Clamp Type

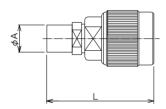


			Fin	ish	Assembly
Part Number	Applicable Cable	L	Outer	Center	Instruction
			Conductor Conductor		
TNC-P-3-CF	3D-2V	25.0	٨α	٨α	6
TNC-F-3-CF	3D-QEV	25.0	Ag	Ag	0

Crimp Type



				Fin	ish	Assembly	Curimous
Part Number	Applicable Cable	ϕA	L	Outer	Center	Instruction	
				Conductor	Conductor		
TNC-P-1.5DQEW-CF	1.5D-2W	5.5	22.3	Ni	Au	1	CR-H-1100
TNC-P-1.5DQEW-CF	1.5D-QEW	5.5	22.3	INI	Au	'	CK-H-1100
TNC-P-2.5D2W-CR10-CF	2.5D-2W	6.3	24.3	Ni	٨α	2	CR-H-1115
TNO-F-2.3D2W-CRTO-CF	2.5D-QEW	0.5	24.3	INI	Ag	۷	CK-11-1115
TNC-P-3D2W-CR10-CF	3D-2W	7.0	24.3	Ni	٨α	2	CR-H-1135
TINO-F-3DZVV-CRTO-CF	3D-QEW			INI	Ag		ON-11-1133

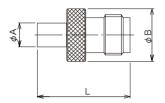


				Fin		A = = = = l= l+ +	
Part Number	Applicable Cable	φΑ	L	Outer	Center	Assembly Instruction	Crimp Tool
				Conductor			
TNC-P-2DFB-1-CF	2D-FB	6.2	29.7	Ni	Au	3	CR-H-1105

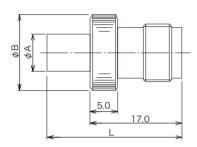
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Straight Cable Jack

Crimp Type



Part Number	Applicable Cable	φΑ	φВ		Outer	nish Center Conductor	III ISU UCUOIT	Crimp Tool
TNC-J-1.5DXW-CR10-120-CF	2D-FB	5.5	12.0			Ag		CR-H-1142
TNC-J-2.5D2W-CR10-CF	2.5D-2W	6.25	146	25.0	Ni	٨٥	4	CR-H-1105
TNC-J-2.5D2W-CR TO-CF	2.5D-QEW	0.23	14.0	25.0	INI	Ag	4	CK-H-1105

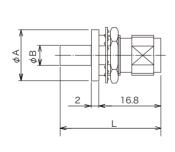


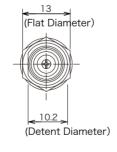
	A !! !- ! -				Fir	nish	A = = = = = -	
Part Number	Applicable Cable	φΑ	ϕB	L	Outer	Center	Assembly Instruction	Crimp Tool
	Odbio				Conductor	Conductor	in Struction	
TNC-J-3D2W-CR10-CF	3D-2W	7.0	146	25.42	Ni	Ag	4	CR-H-1135
1110-J-3DZW-CR10-CF	3D-QEW	1.9	14.0	25.42	IVI	Ag	4	CN-11-1133

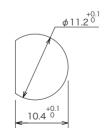
Straight Bulkhead Cable Jack

Part Number	Applicable Cable	φΑ	φ Β		Outer	iish Center Conductor	Assembly Instruction	Crimp Tool
TNC-BJ-2.5D-QEW-CF	2.5D-2W	140	6.25	27.0	Ni	٨α		CR-H-1105
TNC-DJ-Z.3D-QEW-CF	2.5D-QEW	14.0	0.23	21.9	INI	Ag	4	CN-11-1103

Mounting Panel Thickness: 2.7mm max.







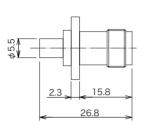
Panel Mounting Dimensions

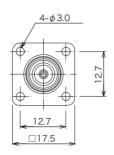
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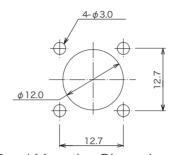
Straight Panel Cable Jack

Crimp Type

Part Number	Cable	Outer	nish Center Conductor	Assembly Instruction	Crimp Tool
TNC-PJ-1.5DQEW-CR10-CF	1.5D-QEW	Ni	٨٥	5	CR-H-1142
TNC-PJ-1.5DQEW-CRTO-CF	1.5D-2W	INI	Ag	5	CR-H-1142

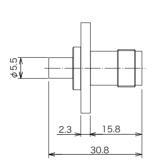


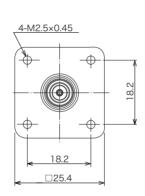


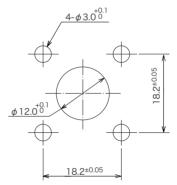


Panel Mounting Dimensions

	Applicable	Fir	nish	A a a a mala li .	
Part Number		Outer		Assembly Instruction	Crimp Tool
	Cable	Conductor	Conductor		
TNC-PJ-1.5DXW-CR10-M-CF	1.5D-XW	Ni	٨٥	7	CR-H-1100
TING-FJ-1.5DAVV-CR10-IVI-CF	1.5D-XWTA	INI	Ag	/	CR-11-1100

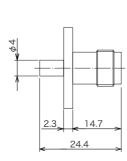


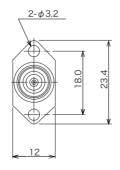


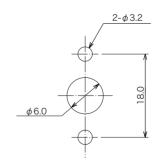


Panel Mounting Dimensions

	Applicable	Fir	nish	A a a a malali.	
Part Number		Outer	Center	Assembly Instruction	Crimp Tool
	Cable	Conductor	Conductor		
TNC-PJ-2H-1.5D-CR10-CF	1.5D-QEV	Ni	٨٥	5	CR-H-1101
TING-FJ-ZI I-1.5D-CK TO-CF	1.5D-2V	INI	Ag	5	CR-11-1101



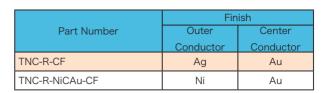


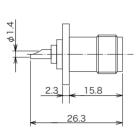


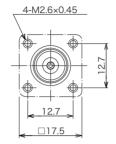
Panel Mounting Dimensions

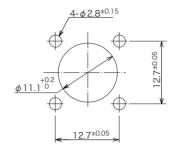
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▶ Receptacle Jack



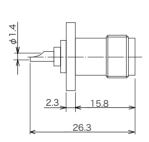


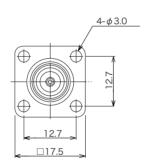


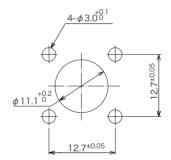


Panel Mounting Dimensions

	Fin	ish
Part Number	Outer	Center
	Conductor	Conductor
TNC-R2-CF	Ag	Ag
TNC-R2-Ni-CF	Ni	Ag
TNC-R2-NiCAu-CF	Ni	Au

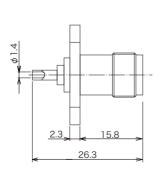


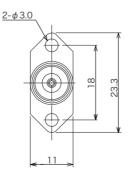


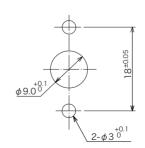


Panel Mounting Dimensions

	Finish	
Part Number	Outer	Center
	Conductor	Conductor
TNC-R2-2H-Ni-CF	Ni	Ag



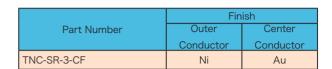


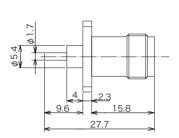


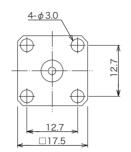
Panel Mounting Dimensions

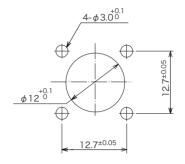
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▶ Receptacle Jack



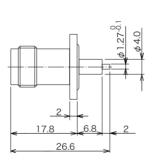


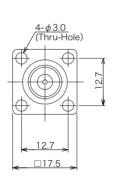


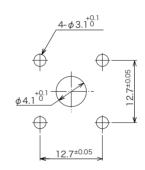


Panel Mounting Dimensions

	Finish	
Part Number	Outer	Center
	Conductor	Conductor
TNC-SR-6-CF	Ni	Au

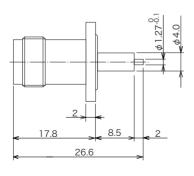


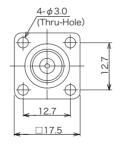


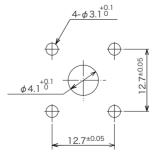


Panel Mounting Dimensions

	Finish	
Part Number	Outer	Center
	Conductor	Conductor
TNC-SR-9-CF	Ni	Au



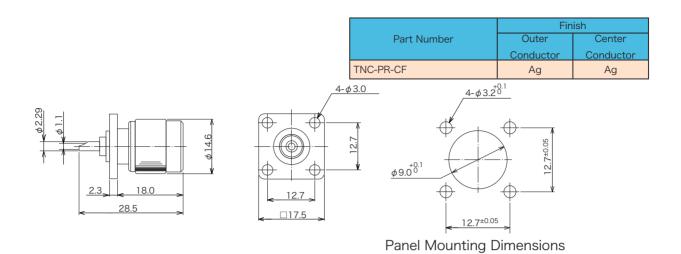




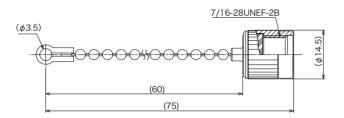
Panel Mounting Dimensions

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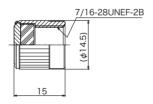
▶Receptacle Plug



Dust Cap



Part Number	Finish
TNC-RC-1	Ni
TNC-RC-1-D1	Ag

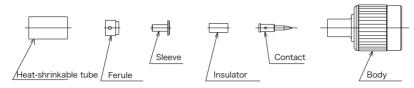


Part Number	Finish
TNC-C-2-CF	Ni
TNC-C-2-D1-CF	Ag

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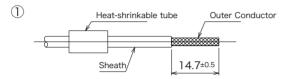
Assembly Instruction (1)

Parts Configulration

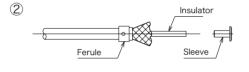


Cable length

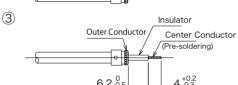
Cable length which require for the cable assembly. L=L1-3.3 L=L2+19.7



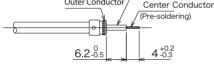
(1) Insert the heat-shrinkable tube onto the cable. Cut the cable as fig.1. Please be careful to not damage the outer conductor.



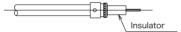
2 Insert the ferule on the outer conductor and spread the top of the outer conductor. Insert the sleeve between insulator and outer conductor. And cut the outer conductor along the sleeve.



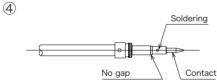
(3) Cut the insulator as fig. 3.



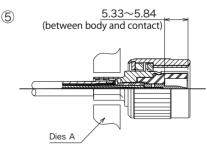
Please be careful to not damage the center conductor. Pre-solder the center conductor and cut the center conductor.



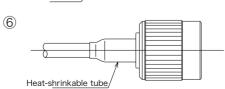
Please be careful to not damage the insulator by soldering. Insert the insulator as fig.3.



4 Solder up the contact with center conductor. No gap between insulator and contact.



⑤ Insert the body into the above cable assembly. And crimp the root of the body. Please be careful to meet the crimp height as follows.



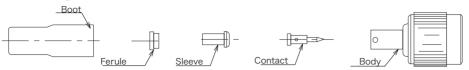
(3.1)Measuring point

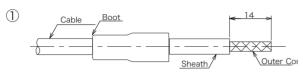
Note) Distance between body and contact must be met.

- 6 Cover the heat-shrinkable tube on the root of the body and heat up.
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Assembly Instruction (2)

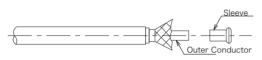
Parts Configulration



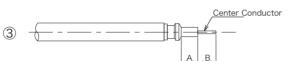


 Insert the boot into the cable and cut the cable as fig.1.
 Please be careful to not damage the outer conductor.

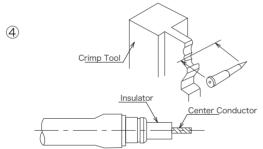




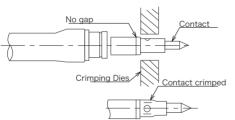
② Insert the ferule on the outer conductor and spread the top of the outer conductor. Press-in rhe sleeve between insulator and outer conductor. Cut the extra outer conductor along the sleeve.



③ Cut the insulator and center conductor as fig.3.

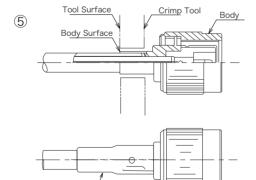


Part Number	А	В
TNC-P-2.5D2W-CR10-CF	5.0mm	4.0mm
TNC-P-3D2W-CR10-CF	5.5mm	3.5mm



④ Pinch the contact in the crimping hole(center hole) and insert the center conductor of the cable. Crimp the contact (match the side hole of contact with the curve of crimping hole of tool.)

Part Number	Crimp Tool
TNC-P-2.5D2W-CR10-CF	CR-H-1115
TNC-P-3D2W-CR10-CF	CR-H-1135



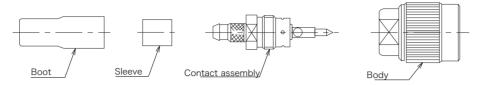
⑤ Insert the above contact into the body. Match the key in the insulator and keyway of the contact. Crimp the root of body as fig.5. Cover the boot on the root of the connector body.

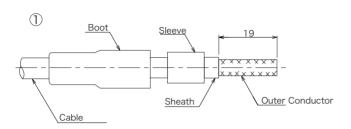
Boot

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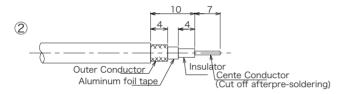
▶ Assembly Instruction (3)

Parts Configulration

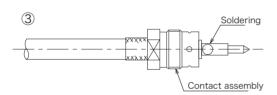




① Insert the boot and sleeve into the cable and cut the cable as fig.1. Please be careful to not damage the outer conductor.

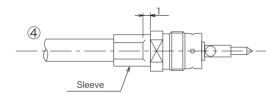


② Cut the cable as fig.2. Cut the center conductor after pre-soldering.

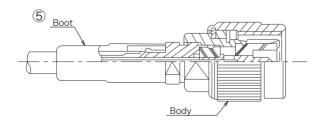


③ Insert the contact between outer conductor and aluminum foil tape. Solder the contact with center conductor.

When the solder is stick out, please shave the extra solder along the contact.



④ Cover the sleeve on the outer conductor and crimp as fig.4. Crimp Tool: (CR-H-1105)

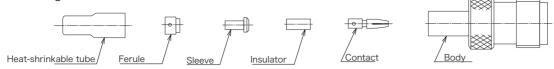


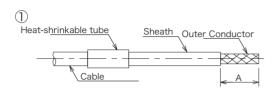
⑤ Insert the above contact into the body and screw. Cover the boot on the root of the body.

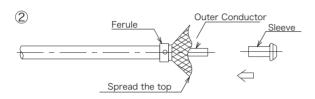
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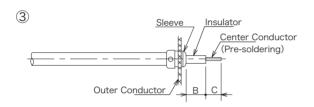
Assembly Instruction (4)

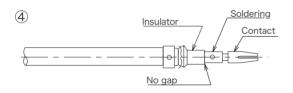
Parts Configulration

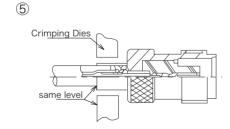


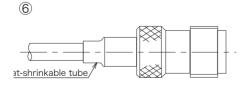












① Insert the heat-shrinkable tube into the cable and cut the cable as fig.1. Please be careful to not damage the outer conductor.

Part Number	А
TNC-J-1.5DXW-CR10-120-CF	13.0mm
TNC-J-2.5D2W-CR10-CF	11.0mm
TNC-J-3D2W-CR10-CF	11.5mm
TNC-BJ-2.5DQEW-CF	13.0mm

- ② Insert the ferule on the outer conductor and spread the top of the outer conductor. Press in the sleeve between outer conductor and insulator.
- ③ Cut off the extra outer conductor along the sleeve. Cut the cable as fig.3. Cut the center conductor after pre-soldering. Please be careful to not damage the center conductor.

Part Number	В	С
TNC-J-1.5DXW-CR10-120-CF	5.7mm	2.8mm
TNC-J-2.5D2W-CR10-CF	3.0mm	2.5mm
TNC-J-3D2W-CR10-CF	3.1mm	2.5mm
TNC-BJ-2.5DQEW-CF	6.0mm	2.0mm

- ④ Insert the insulator and solder the contact with center conductor. When the solder is stick out, please shave the extra solder along the contact.
- ⑤ Insert the above contact into the body. Match the key in the insulator and keyway of the contact. Crimp the root of body as fig.5.

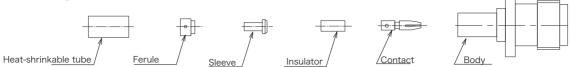
Part Number	Tool
TNC-J-1.5DXW-CR10-120-CF	CR-H-1100
TNC-J-2.5D2W-CR10-CF	CR-H-1105
TNC-J-3D2W-CR10-CF	CR-H-1135
TNC-BJ-2.5DQEW-CF	CR-H-1105

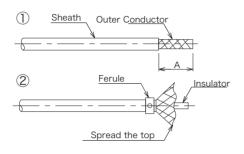
⑥ Cover the heat-shrinkable tube on the root of the body and heat up.

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▶ Assembly Instruction (5)

Parts Configulration



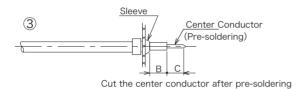


① Cut the cable as fig.1.

Please be careful to not damage the outer conductor.

Part Number	А
TNC-PJ-1.5DQEW-CR10-CF	13.0mm
TNC-PJ-2H-1.5D-CR10-CF	10.0mm

② Insert the ferule on the outer conductor and spread the top of the outer conductor.



Solderina

Contact

③ Insert the sleeve and cut the cable as fig.3. Press in the sleeve between outer conductor and insulator. Cut off the extra outer conductor along the sleeve. Cut the insulator and center conductor as below table. Cut the center conductor after pre-soldering. Please be careful to not damage the center conductor.

Part Number	В	С
TNC-PJ-1.5DQEW-CR10-CF	5.7mm	3.0mm
TNC-PJ-2H-1.5D-CR10-CF	4.0mm	3.0mm

- 4 Insert the insulator on the insulator of the cable and solder the contact with center conductor. When the solder is stick out, please shave the extra solder along the contact.
- Same level

 Crimping Dies

 6

 Heat-shrinkable tube

Insulator

No gap

4

⑤ Insert the above contact into the body. Match the key in the insulator and keyway of the contact. Crimp the root of body as fig.5.

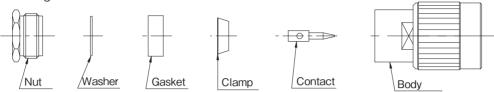
Part Number	Tool
TNC-PJ-1.5DQEW-CR10-CF	CR-H1142
TNC-PJ-2H-1.5D-CR10-CF	CR-H1101

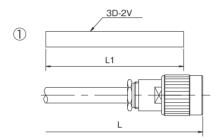
© Cover the heat-shrinkable tube on the root of the body and heat up.

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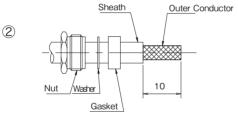
Assembly Instruction (6)

Parts Configulration



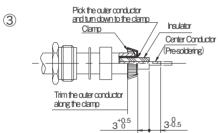


① The cable length require for the cable assembly L1=L-x



② Insert nut, washer and gasket into the cable and cut the cable as fig.2.

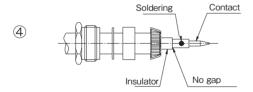
Please be careful to not damage the outer conductor.



③ Insert the clamp on the outer conductor and turn down the outer conductor. Cut the outer conductor along the clamp.

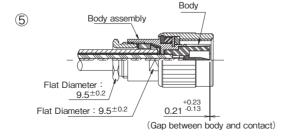
Cut the insulator as fig.3. Please be careful to not damage the center conductor.

Cut the center conductor after pre-soldering.



④ Insert the contact and solder the contact with center conductor.

Please bee careful to not damage the insulator by heat.



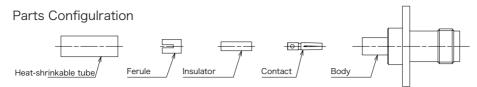
⑤ Insert the above contact into the body.
Insert the the gasket and washer into the body and screw the nut.

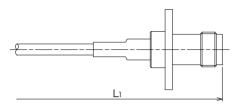
Recommended torque : 117.5 \sim 147N \cdot cm (12 \sim 15Kgf \cdot cm)

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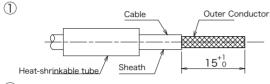
Unit: mm

Assembly Instruction (7)

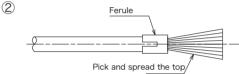




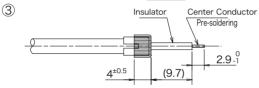
Cable length which require for the cable assembly. L=L1-10.5



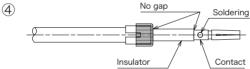
(1) Insert the heat-shrinkable tube into the cable. Cut the cable as fig.1. Note) Please be careful to not damage the outer conductor.



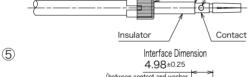
2 Insert the ferule on the outer conductor Pick and spread the outer conductor.



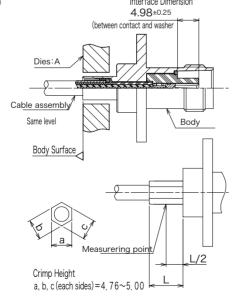
3 Turn down the outer conductor to the ferule and cut the outer conductor as fig.3. Cut the insulator as fig. 3 and pre-solder the center conductor. And cut the center conductor as fig.3. Note) Please be careful to not center conductor.



4 Insert the insulator into the cable, solder up the contact with center conductor. Note) When the solder is stick out, please shave the



extra solder along the contact.

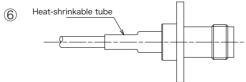


crimp the root of the body. Note) When inserting the body, match the contact notch with projection of insulator.

⑤ Insert the body into the above cable assembly and

- Note) Crimp the body with same level of body and dies.
- Note) Meet the interface dimension and crimp height

6 Cover the heat-shrinkable tube on the root of the body and heat up.



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