

N Style Coaxial Connector

N Series

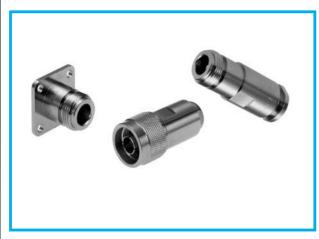




50 Ω

Frequency Range DC to 3GHz

Lock Type Screw



FEATURE

- \cdot N series is a thread coupling coaxial connector which is the most popular as a 7mm type 50 Ω impedance.
- · N series is available for various cable type.
- · It is incompatible to NC series(75 Ω impedance N Style connector).

CONFORMING STANDARD

JIS-C5411, MIL-PRF-39012

SPECIFICATIONS

Characteristic Impedance	50 Ω
Rated Volatge	500VAC(r.m.s.)
Dielectric Withstanding Voltage	1,500V AC(r.m.s) / 1 minute
Insulation Resistance	1,000M Ω min. at 500V DC
Contact Resistance	3m Ω max.
V.S.W.R.	1.3 max. (DC \sim 3GHz)
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.

Also, the performance is diffrenet by using cable.

MATERIAL/FINISH

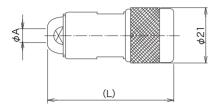


ltem	Material / Finish
Shell	Copper Alloy / Ni or Ag Plating
Contact (Female)	Copper Alloy / Ag or Au Plating
Contact (Male)	Copper Alloy /Ag or Au Plating
Insulator	PTFE
Gasket	Silicon Rubber

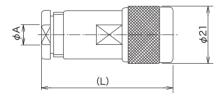
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Straight Cable Plug

Clamp Type



	Applicable			Fin	ish	Assembly
Part Number	Cable ϕ A		(L)	Outer Conductor	Center Conductor	Instruction
N-P-3-CF	3C-2V	6.2	44.6	٨٥	٨٥	1
N-P-3-CF	3D-2V	0.2		Ag	Ag	1
N-P-3-Ni-CF	3C-2V	6.2	44.6	Ni	Ag	1
IN-P-3-INI-CF	3D-2V	0.2	44.0	INI		'
N-P-3-NiCAu-CF	3C-2V	6.2	44.6	Ni	Au	1
N-P-3-NICAU-CF	3D-2V	0.2	44.0	INI	Au	'
N-P-3W-CF	3C-2W	7.2	44.6	Ag	Ag	1
N-P-3VV-CF	3D-2W	1.2				'
N-P-3W-Ni-CF	3C-2W	7.2	44.6	Ni	٨α	1
IN-F-3VV-INI-CI	3D-2W	1.2			Ag	
N-P-3W-D1-CF	3C-2W	7.2	44.6	Ni	Au	1
N-P-3W-DT-CF	3D-2W	1.2	44.0	INI	Au	
N-P-55U-CF	RG-55/U	5.4	44.6	Ag	Ag	1
N-P-55U-Ni-CF	RG-55/U	5.4	44.6	Ni	Ag	1
N-P-58U-CF	RG-58/U	5.4	44.6	Ag	Ag	1
N-P-58U-Ni-1-CF	RG-58/U	5.4	44.6	Ni	Ag	1
N-P-58U-NiCAu-CF	RG-58/U	5.4	44.6	Ni	Au	1

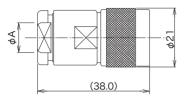


	Applicable			Fin	ish	Assmbly
Part Number	Cable ϕA		(L)	Outer Conductor	Center Conductor	Instruction
N-SP-3.5DFE-CF	3.5D-FE	6.2	41.5	Ni	Au	
N-3P-3.5DFE-CF	3.5D-QEFA	0.2	41.5	INI	Au	_
N-P-5-CF	5C-2V	8.6	44.0	٨٠	Λ =:	1
N-P-5-CF	5D-2V	0.0	44.0	Ag	Ag	
N.D.E.NI: OF	5C-2V	8.6	44.0	Ni	Ag	1
N-P-5-Ni-CF	5D-2V	8.0				'
N-P-5W-CF	5C-2W	0.1	45.0	Ag	Ag	1
N-P-5W-CF	5D-2W	9.1				
N-P-5W-Ni-CF	5C-2W	9.1	45.0	Ni	Λ =:	,
IN-P-5W-INI-CF	5D-2W	9.1	45.0	INI	Ag	1
N. D. E.W. NICA CE	5C-2W	0.1	45.0	Ni	۸.,	,
N-P-5W-NiCAu-CF	5D-2W	9.1	45.0	INI	Au	1
N-P-5DFB-1-CF	5D-FB	8.1	44.0	Ni	Ag	1
N-SP-5DSFA-CF	5D-SFA	8.6	41.5	Ni	Au	_

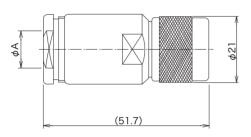
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Straight Plug

Clamp Type



	Applicable		Fin	ish	Assembly
Part Number	Cable	φΑ	Outer Conductor		Instruction
N-P-8DFB-1-CF	8D-FB	11.8	Ni	Ag	4

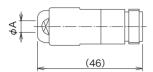


	Applicable		Fir	nish	Assambly
Part Number	Cable	φΑ	Outer Conductor	Center Conductor	- Assembly Instruction
N-P-10DFB-1-CF	10D-FB	14.2	Ni	Ag	4

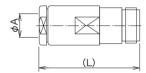
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Straight Cable Jack

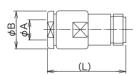
Clamp Type



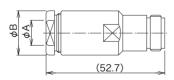
	Applicable		Fin	ish	Assembly	
Part Number	Cable	1	Outer Conductor		Instruction	
	3C-2V		Conductor	Conductor		
N-J-3-CF	30 Z V	6.2	Ag	Ag	2	
110000	3D-2V	0.2	7.9	7.9	_	
N-J-3-Ni-CF	3C-2V	6.2	Ni	٨٥	2	
IN-7-2-INI-CE	3D-2V	0.2	INI	Ag	2	



		Applicable			Fir	nish	Assembly
İ	Part Number	Cable	ϕA	(L)	Outer	Center	Instruction
l		00010			Conductor Conductor		
	N-J-5-CF	5D-2V	8.6	47.0	Ag	Ag	2
	N-J-5-Ni-CF	5D-2V	8.6	47.0	Ni	Ag	2



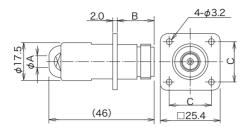
	Applicable				Finish		Assembly
Part Number	Cable	ϕA	ϕB	(L)	Outer	Center	Instruction
	Cabic				Conductor		
N-J-8-1-CF	8D-2V	12.7	19.1	41.2	Ag	Ag	5
N-J-8-1-Ni-CF	8D-2V	12.7	19.1	41.2	Ni	Ag	5



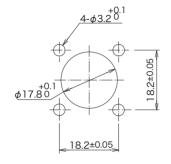
	Applicable			Fir	Assembly	
Part Number	Cable	φΑ	, '	Outer Conductor	Center	Instruction
N-J-10DFB-1-CF	10D-FB	14.2	22.2	Ni	Ag	5

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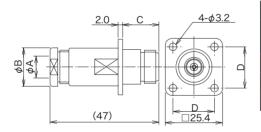
▶ Straight Panel Cable Jack



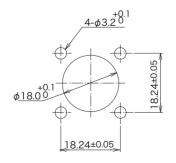
	Applicable				Fin	Assembly	
Part Number	Cable	φΑ	φA B		Outer Conductor	Center Conductor	Instruction
N-PJ-3-CF	3C-2V	6.2	16.7	18.2	Ag	Ag	3
N-PJ-3-CF	3D-2V	0.2	10.7	10.2			
N-PJ-3-Ni-CF	3C-2V	6.2	6.2 16.7	18.2	Ni	٨~	3
IN-PJ-3-INI-CF	3D-2V	0.2	10.7	10.2	INI	Ag	3
N-PJ-58U-CF	RG-58/U	5.4	16.6	18.2	Ag	Ag	3
N-PJ-58U-Ni-CF	RG-58/U	5.4	16.6	18.2	Ni	Ag	3



Panel Mounting Dimensions



	Applicable					Finish		Assembly	
Part Number	Cable	φΑ	В	С	D	Outer Conductor	Center Conductor	Instruction	
N-PJ-5-CF	5C-2V	8.6	17.5	16.7	18.24	٨٨	٨٥	3	
IN-PJ-3-CF	5D-2V	0.0	17.5	10.7	10.24	Ag	Ag	3	
N-PJ-5-Ni-CF	5D-2V	8.6	17.5	16.7	18.24	Ni	Ag	3	

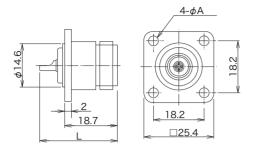


Panel Mounting Dimensions

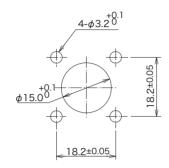
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▶ Receptacle Jack

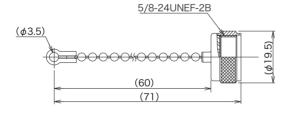


		Finish		
Part Number	L	Outer Conductor	Center Conductor	φΑ
N-R-CF	29	Ag	Ag	φ 3.2
N-R-Ni-CF	29	Ni	Ag	φ 3.2
N-R-NiCAu-CF	29	Ni	Au	φ 3.2

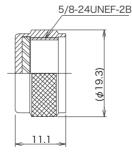


Panel Mounting Dimensions

Dust Cap



Part Number	Finish
N-RC-5	Ni
N-RC-5-D1	Ag

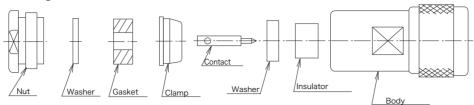


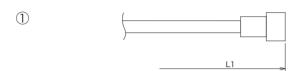
Part Number	Finish
N-RC-3-CF	Ni

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▶Assembly Instruction(1) Straight Cable Plug

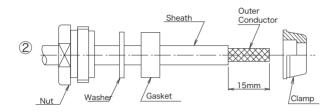
Parts Configulration





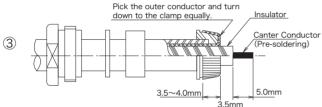
① L=The Cable length require for the single-ended cable assembly.

L=L1-10

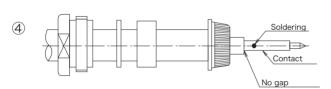


② Insert the nut, washer and gasket into the cable. Cut the sheath 15mm from the end of the cable and insert the clamp.

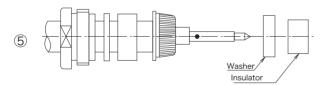
Please be careful to not damage the outer conductor.



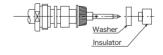
③ Pick the outer conductor and turn down to the clamp. Cut the outer conductor along the clamp. Cut the insulator and center conductor as fig.3. Please be careful to not damage the center conductor.



- ④ Solder up the contact with the center conductor. Please be careful to not deform the insulator by heat.
 - When the solder is stick out, please shave the extra solder.
 - No gap between contact and insulator of the cable.



- ⑤ Insert the ring and insulator as fig. 5.
- In case of the insulator which has directivity, insert the insulator as below direction and fit the thinner side of the insulator into the inside diameter of the washer.





(6) Insert the above assembly into the body and screw up by wrench.

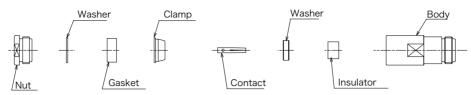
Applicable Cable	Recommended Tightening Torque	
3C-2V, 3D-2V, 3C-2W,3D-2W,	196 ~ 392N · cm(20 ~ 40kgf · cm)	
RG-55/U, RG-58/U		
5C-2V, 5D-2V	392N · cm(40kgf · cm)	
5C-2W, 5D-2W	$490 \sim 686 \text{N} \cdot \text{cm} (50 \sim 70 \text{kgf} \cdot \text{cm})$	
5D-FB	441 ~ 539N · cm(45 ~ 55kgf · cm)	
RG-8/U, RG-9/U	$343 \sim 392 \text{N} \cdot \text{cm} (35 \sim 40 \text{kgf} \cdot \text{cm})$	

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Assembly Instruction(2) Straight Cable Jack

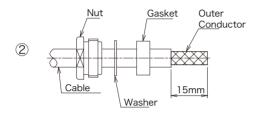
Parts Configulration





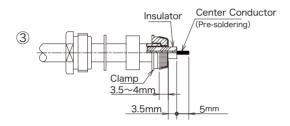
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L=L1-12

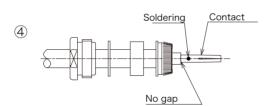


② Insert the nut, washer and gasket into the cable. Cut the sheath 15mm from the end of the cable and insert the calmp.

Please be careful to not damage the outer conductor .



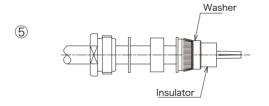
③ Pick the outer conductor and turn down to the clamp. Cut the outer conductor along the clamp. Cut the insulator and center conductor as fig.3. Please be careful to not damage the center conductor.



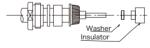
Solder up the contact with the center conductor.
 Please be careful to not deform the insulator by heat.

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

No gap between contact and insulator of the cable.



- ⑤ Insert the ring and insulator as fig. 5.
- In case of the insulator which has directivity, insert the insulator as below direction and fit the thinner side of the insulator into the inside diameter of the washer.



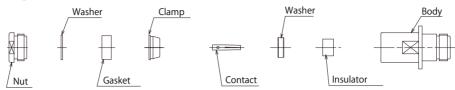


Applicable Cable	Recommended Tightening Torque
3C-2V, 3D-2V, RG-58/U,	$196 \sim 392 \text{N} \cdot \text{cm} (20 \sim 40 \text{kgf} \cdot \text{cm})$
5D-2V	$490 \sim 686 \text{N} \cdot \text{cm} (50 \sim 70 \text{kgf} \cdot \text{cm})$
RG-8/U,RG-9/U	$343 \sim 392 \text{N} \cdot \text{cm} (35 \sim 40 \text{kgf} \cdot \text{cm})$

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Assmbly Instruction(3) Straight Panel Jack

Parts Configulration





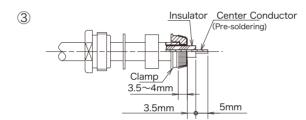
2 Nut Gasket Outer Conductor

Lable Washer

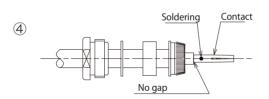
① L=The Cable length require for the single-ended cable assembly.

② Insert the nut, washer and gasket into the cable. Cut the sheath 15mm from the end of the cable and insert the clamp.

Please be careful to not damage the outer conductor.



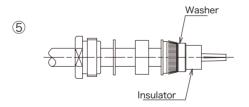
③ Pick the outer conductor and turn down to the clamp. Cut the outer conductor along the clamp. Cut the insulator and center conductor as fig.3. Please be careful to not damage the center conductor.



④ Solder up the contact with the center conductor. Please be careful to not deform the insulator by heat.

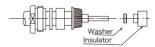
When the solder is stick out, please shave the extra solder.

No gap between contact and insulator of the cable.



6

- (5) Insert the ring and insulator as fig. 5.
- In case of the insulator which has directivity, insert the insulator as below direction and fit the thinner side of the insulator into the inside diameter of the washer.



⑥ Insert the above assembly into the body and screw up by wrench.

Recommended Tightening Torque

: $196 \sim 392 \text{N} \cdot \text{cm} (20 \sim 40 \text{kgf} \cdot \text{cm})$

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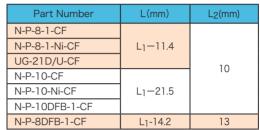
Please confirm the content with the latest delivery specifications when you use the product.

▶ Assembly Instruction(4) MIL Clamp Straigh Cable Plug

Parts Configulation Nut **Washer Gasket Clamp Contact

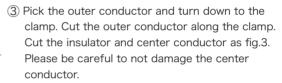
As for N-P-8-1-CF, N-P-8-1-Ni-CF, UG-21D/U-CF and N-P-8DFB-1-CF
 washer is not attached. The washer is not inserted into the cable.





② Insert the nut, washer and gasket into the cable. Cut the sheath from the end of the cable and insert the clamp.

Please be careful to not damage the outer conductor.



Part Number	A(mm)	B(mm)	C(mm)
N-P-8-1-CF N-P-8-1-Ni-CF UG-21D/U-CF	1.0	3.5 ~ 4.0	5
N-P-10-CF N-P-10-Ni-CF N-P-10DFB-1-CF	1.8	4.0 ~ 4.5	3
N-P-8DFB-1-CF	1.8	3.5 ~ 4.0	4.5

④ Solder up the contact with the center conductor. Please be careful to not deform the insulator by heat.

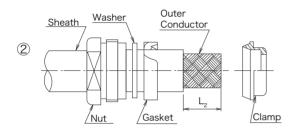
When the solder is stick out, please shave the extra solder.

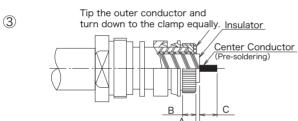
No gap between contact and insulator of the cable.

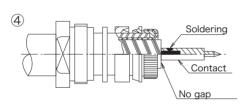
⑤ Insert the above assembly into the body and screw up by wrench.

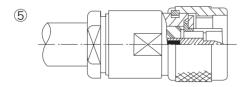
Applicable Cable	Recommended Tightening Torque
RG-8/U, RG-9/U	196 ~ 392N · cm(20 ~ 40kgf · cm)
8D-2V	294 ~ 392N · cm(30 ~ 40kgf · cm)
8D-FB	294N · cm(30kgf · cm)
10C-2V, 10D-2V	980N · cm(100kgf · cm)
10D-FB	294N · cm(30kgf · cm)







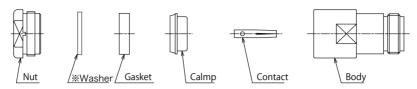




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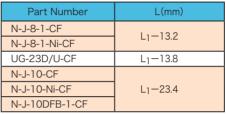
Assembly Instruction(5) MIL Clamp Straight Cable Jack

Parts Configulration



As for N-J-8-1-CF, N-J-8-1-Ni-CF and UG-23D/U-CF,
 the washer is not attached. The washer is not inserted into the cable.





② Insert the nut, washer and gasket into the cable. Cut the sheath 10mm from the end of the cable and insert the clamp.

Please be careful to not damage the outer conductor.

③ Pick the outer conductor and turn down to the clamp. Cut the outer conductor along the clamp. Cut the insulator and center conductor as fig.3. Please be careful to not damage the center conductor.

Part Number	A(mm)	B(mm)
N-J-8-1-CF N-J-8-1-Ni-CF UG-23D/U-CF	1.0	3.5 ~ 4.0
N-J-10-CF N-J-10-Ni-CF N-J-10DFB-1-CF	1.8	4.0 ~ 4.5

④ Solder up the contact with the center conductor. Please be careful to not deform the insulator by heat.

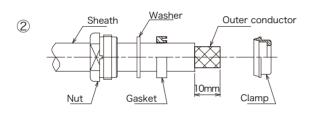
When the solder is stick out, please shave the extra solder.

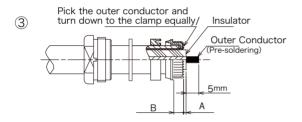
No gap between contact and insulator of the cable.

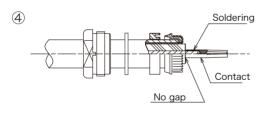
(5) Insert the above assembly into the body and screw up by wrench.

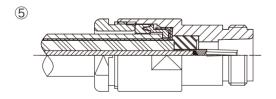
Applicable Cable	Recommended Tightening Torque
8D-2V, RG-8/U, RG-9/U	294 ~ 392N · cm(30 ~ 40kgf · cm)
10C-2V, 10D-2V	980N · cm(100kgf · cm)
10D-FB	294N · cm(30kgf · cm)











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