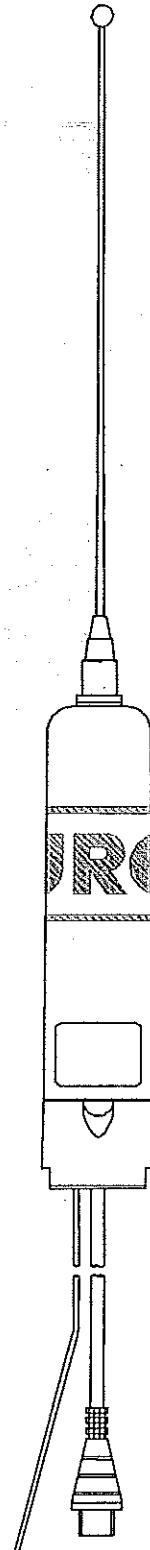


5

NAVTEX ANTENNA

Model NAW-333

INSTALLATION MANUAL



JRC

Japan Radio Co., Ltd.



WARNING



Confirm that the equipment has been fixed firmly.
If it was not fixed firmly, it may drop from the fixed place and may injure somebody.



CAUTION



Do not use a voltage other than specified. Doing so may cause failure or malfunction.



Do not install this antenna in a place where obstructions are within a radius of 1m. Doing so may cause damage to the Whip Antenna itself with swinging.

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1. COMPOSITION OF NAW-333

No.	Component	Type	Quantity
1	NAVTEX Antenna	NAW-333	1
2	Whip antenna (0.6m)	5ABBE00001	1
3	Washer (SUS)	BRTG00404	1
4	Spring washer (SUS)	BRTG00402	1
5	Spacer	MTV002437	1
6	Fitting bands	MPBP30274	2
7	Self - bonding tape	9645	1
8	Installation manual	7ZPJD0328	1

2. SPECIFICATION

Frequency	:	518 kHz, 490 kHz, and 4209.5 kHz
Band width (3dB)	:	504 kHz \pm 20 kHz 4209.5 kHz \pm 100 kHz
Power consumption	:	7V _{DC} , 13mA
Impedance	:	50 ohms
Dimensions	:	Refer to Fig.1
Total mass	:	Approx. 0.3kg
Operational temperature range	:	-25 to +55°C
Operational humidity	:	Up to 95% at +40°C
Water resistance	:	IP56

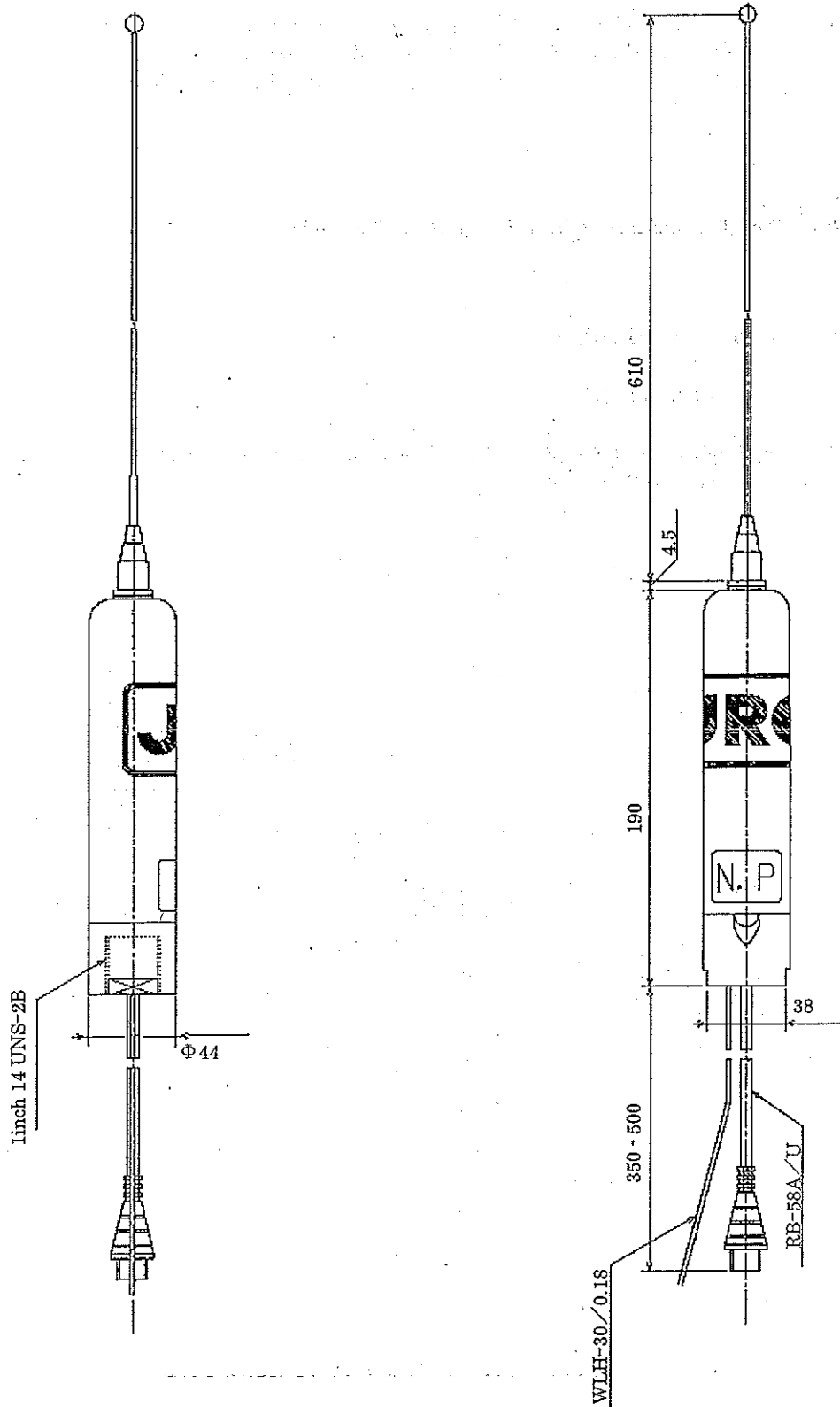


Fig.1: OUTLINE OF NAW-333

4. INSTRUCTION FOR INSTALLATION

4-1. INSPECTION

At unpacking a package for the NAW-333 unit in first time, inspect for the followings:

- (1) To be no shipping damage for the unit and its accessories.
- (2) To make sure the number of contents with referring the COMPOSITION OF NAW-333.

4-2. STORAGE

Store the all components in a dry room until installation.

4-3. INSTALLATION PROCEDURE

- (1) Assembly of Whip antenna

The whip antenna should be screwed directly into the top of NAVTEX Antenna unit and tighten up by using a spanner.

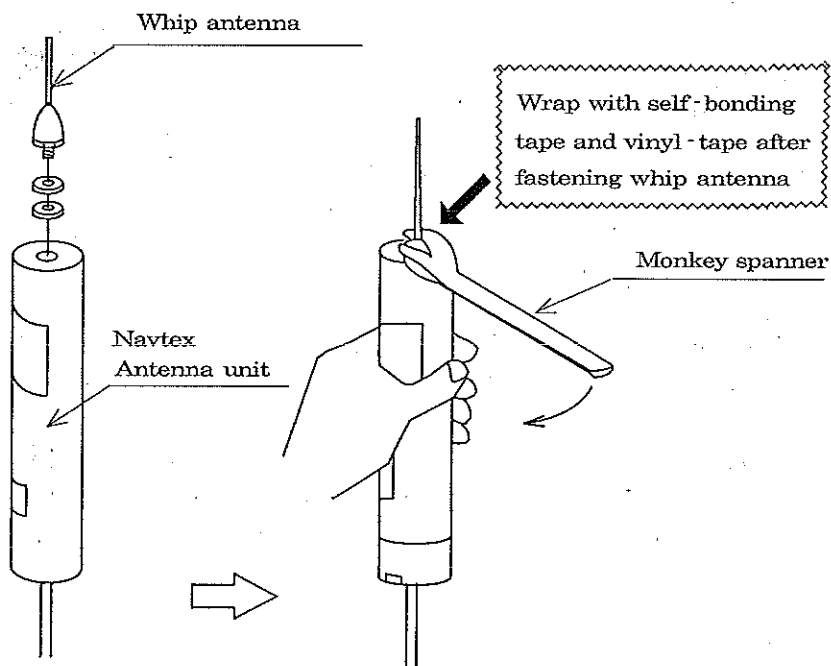
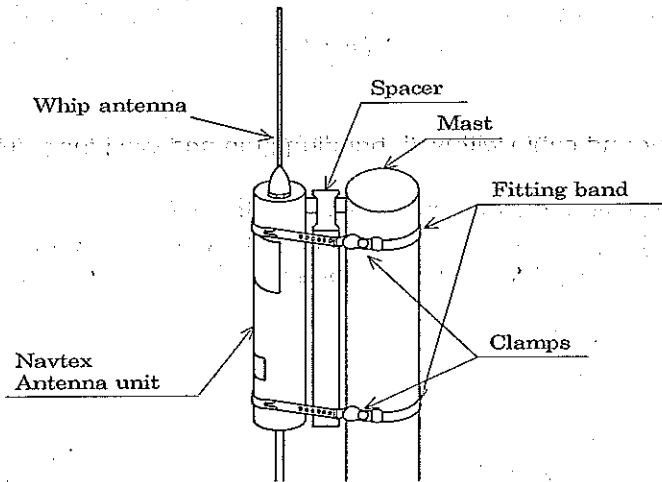


Fig.2: NAVTEX ANTENNA ASSEMBLING

(2) Fastening of NAVTEX Antenna

The antenna can be fastened to a mast or vertical pole with spacer and fitting bands
As shown in Fig.3.



*) Refer Fig.4

Fig.3: NAVEX ANTENNA FASTENED ON A POLE

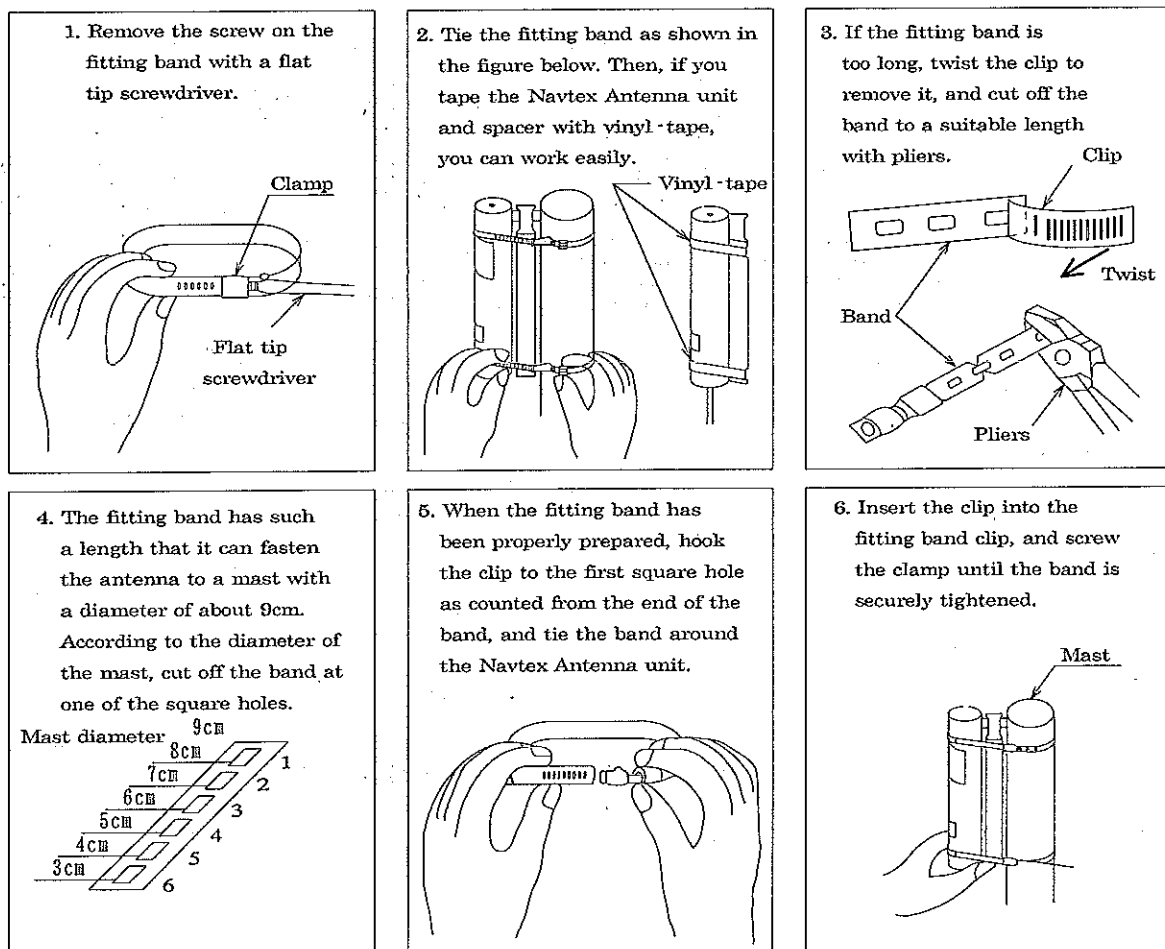


Fig.4: FASTENING WITH BANDS

(3) Installation

Install the NAW-333 NAVTEX Antenna in accordance with the following procedure:

- 1) Select the location where obstructions are not within a radius of 1 m, and reinforce the antenna pole with a supporter as shown in the Fig.5 to prevent damage with vibration on a ship
- 2) Wrap the connector and cable with self-bonding tape and vinyl-tape. (Refer to Fig.6)
- 3) Connect the earth cable to the grounding point. (Refer to Fig.6)
Wrap the grounding point together with the end of the earth cable with self-bonding tape at least 3 layers and wrap it with vinyl tape at least 3 layers.

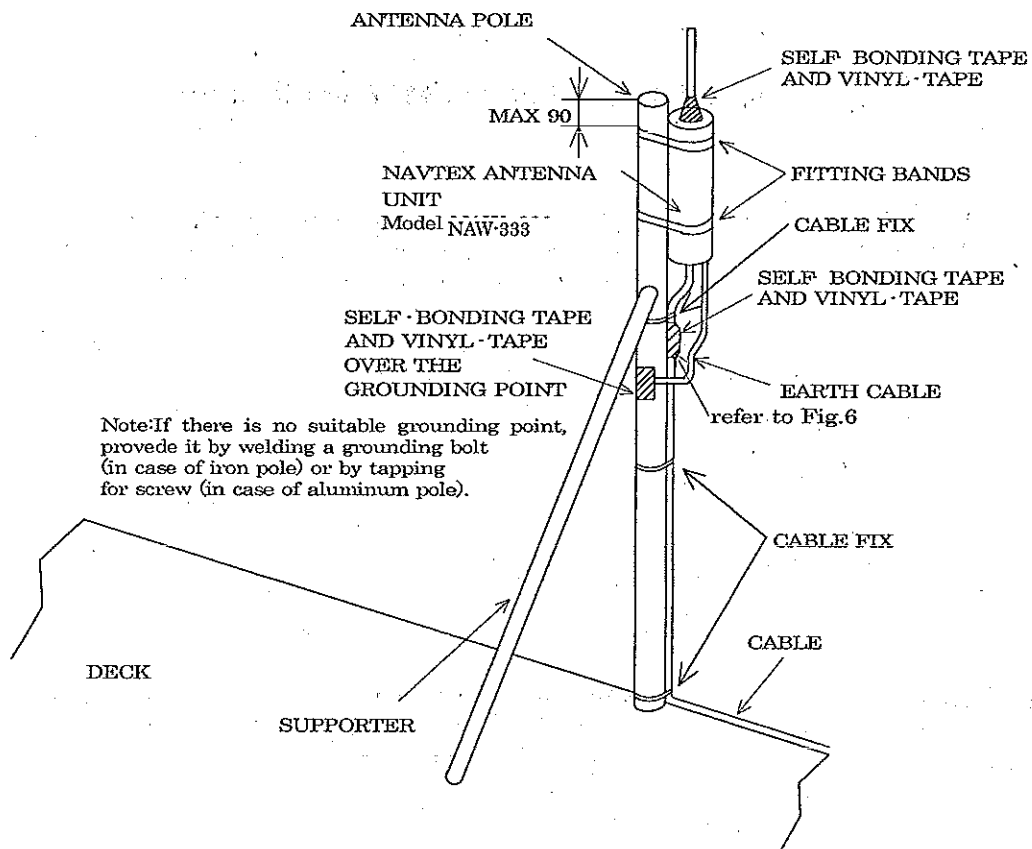


Fig.5: INSTALLATION EXAMPLE

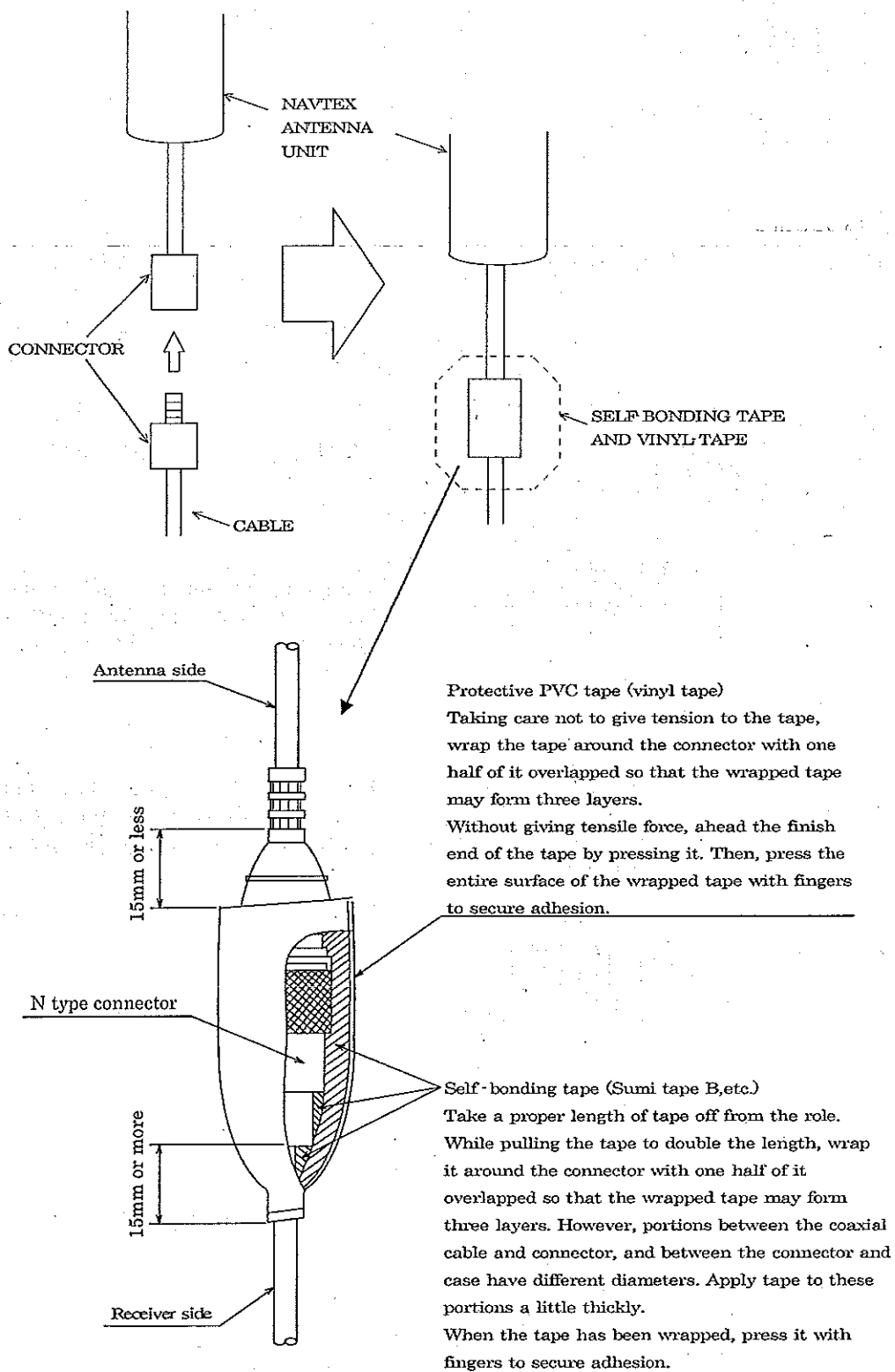
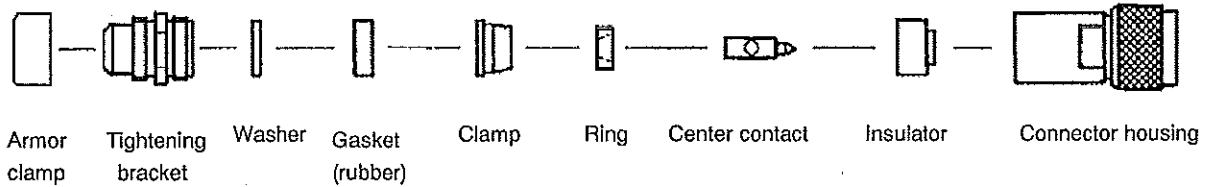


Fig.6: PROTECTION OF CONNECTOR AGAINST WATER

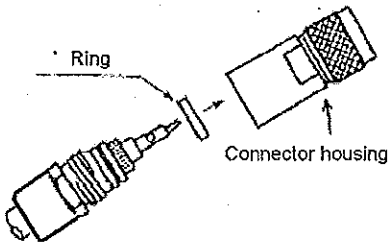
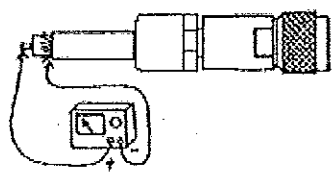
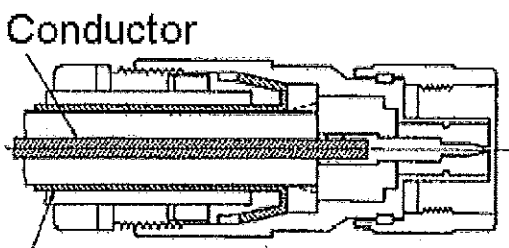
Connection Procedure of Coaxial Connector N-P-10U

1. Parts (N-P-10U)



2. Procedure

No.	External view	Procedure
1		Cut the metal braid armor and insulation sheath as shown left.
2		Ravel the braid conductor and cut the insulator as shown left.
3		Gather up the metal braid armor and raveled braid conductor, and insert the armor clamp, tightening bracket, washer, gasket, and clamp, in order.
4		Fold the raveled braid as shown in the left figure, cut them to the length of up to area A, and then stretch them on the periphery of the clamp uniformly.
5		Dip-solder the conductor.
6		Pre-solder the inside of the center contact.
7		<ol style="list-style-type: none"> 1. Insert the conductor while melting solder in the center contact. 2. Be sure that no space is left between the center contact and insulator. 3. Check the hole that solder flows between the conductor and center contact. Be sure that solder covers the conductor sufficiently and does not protrude outside the center contact.

8	 <p>Ring</p> <p>Connector housing</p>	<ol style="list-style-type: none"> 1. Insert the ring and the connector housing, and then tighten the tightening bracket sufficiently. 2. Check the center contact is at the position shown in the wiring completion diagram.
9		<p>Measure the insulating resistance. The insulating resistance is 10 M ohms or more.</p>
 <p>Conductor</p> <p>Shielded wire</p> <p>Wiring completion diagram of N-type connector</p>		

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NAVAREA Map

