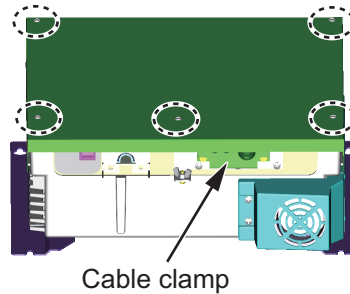


2.4 Power Supply Unit

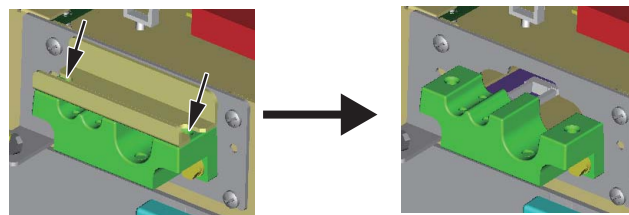
This procedure shows how to wire the power supply. For details see the interconnection diagram.

1. Unfasten five screws to open the cover of the power supply unit.



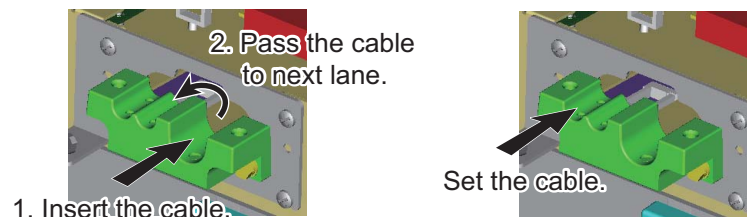
Cable clamp

2. Unfasten two screws from the cable clamp to separate the cable clamp assembly.



Cable clamp

3. Pass the LAN and serial cables through the cable clamp.

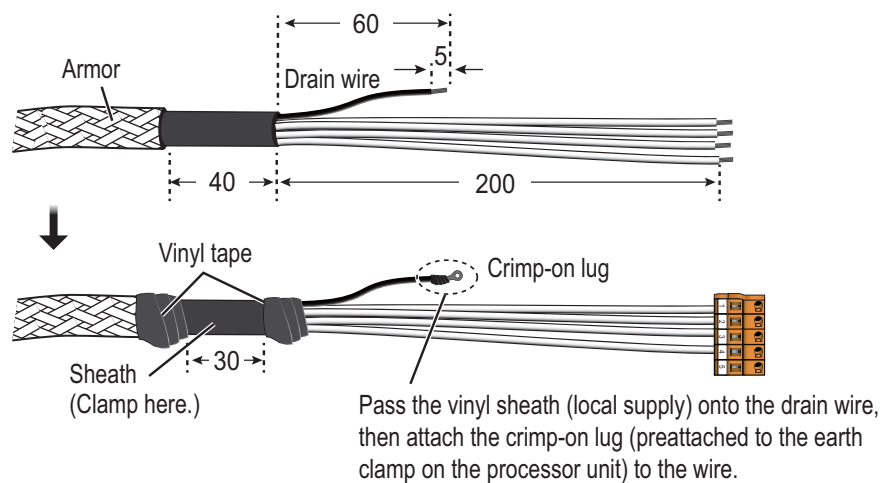


LAN cable

Serial cable

4. As shown below, fabricate the cable TTYCS(LA)-1Q and the LAN cable. (They connect between the processor unit and the power supply unit.)

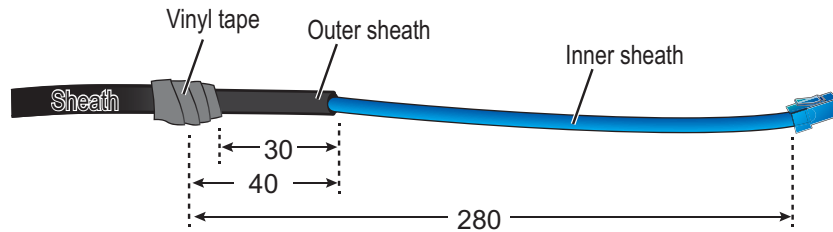
TTYCS(LA)-1Q



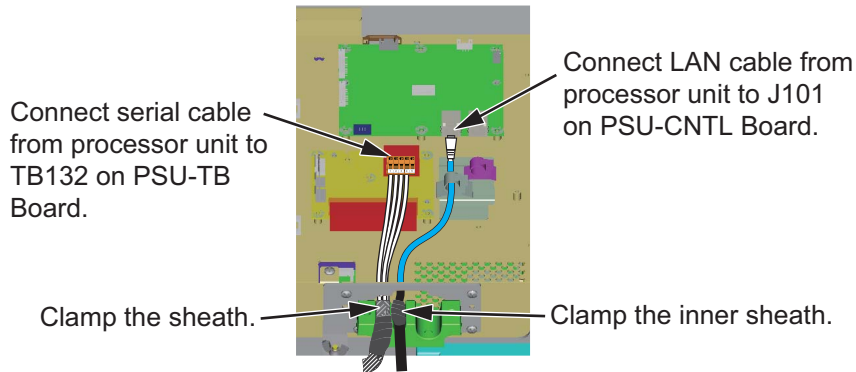
2. WIRING

LAN cable

See "How to fabricate the LAN cable" on page 2-14 for how to attach the LAN cable connector.



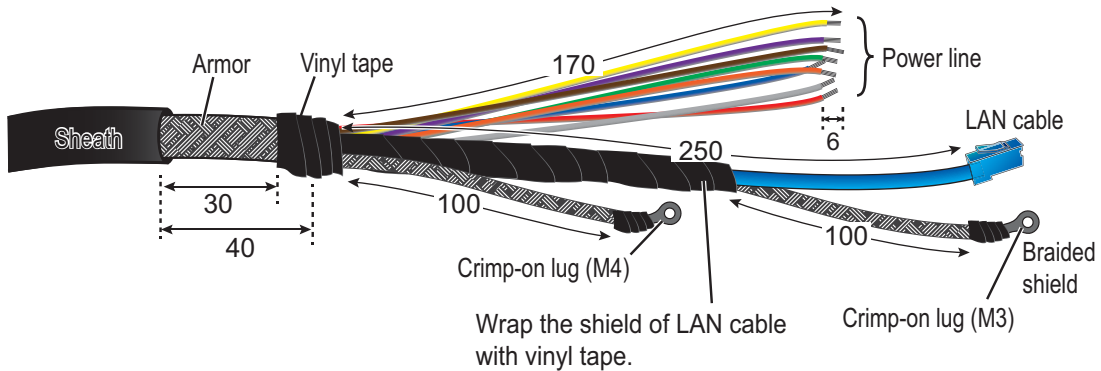
5. Connect the cables fabricated at step 4 as shown below.



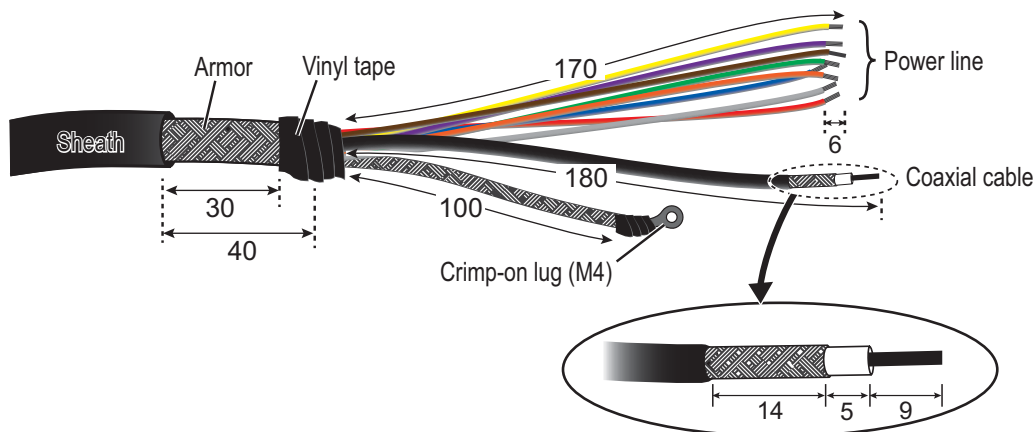
6. Fabricate the antenna cable as shown below.

RW-00135

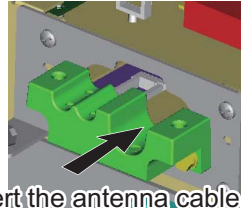
See "How to fabricate the LAN cable" on page 2-14 for how to attach the LAN cable connector.



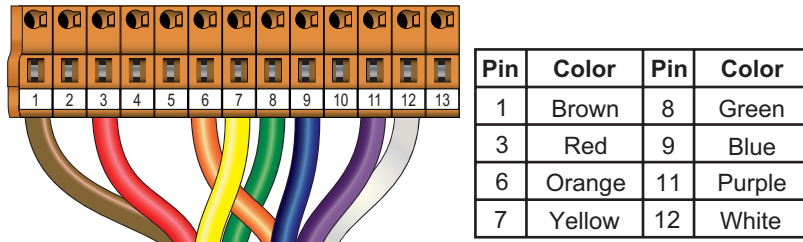
RW-4873/6895/9600



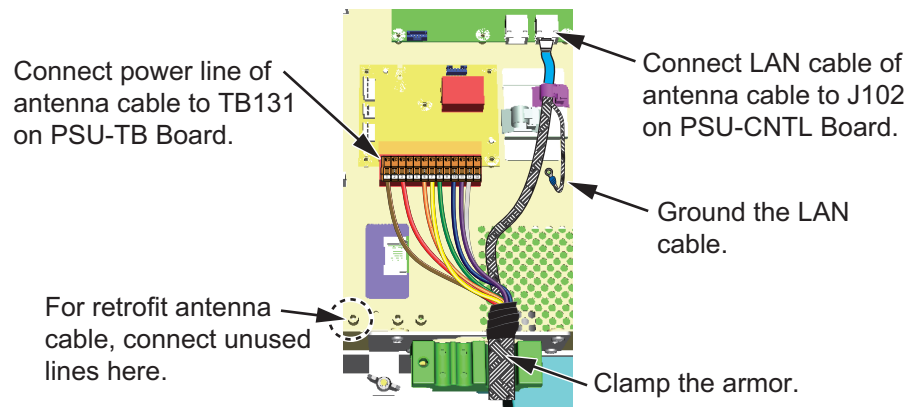
7. Pass the antenna cable through the cable clamp.



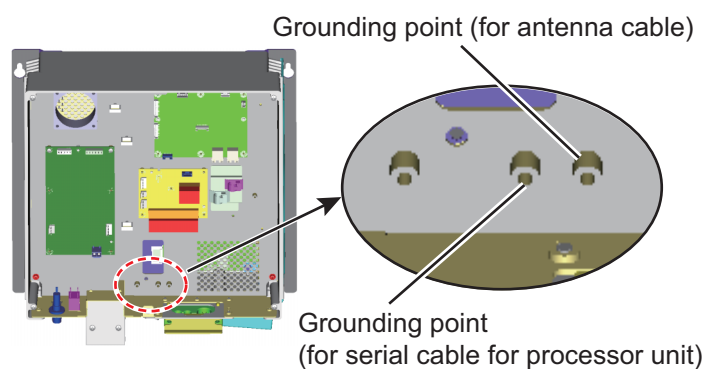
8. Connect the power line of the antenna cable to the 13-pin WAGO connector.



9. Connect the power line and the LAN cable of the antenna cable as shown below.



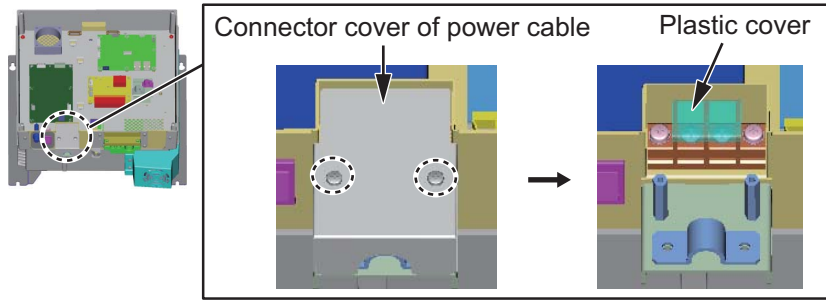
10. Connect the shield wires of the antenna cable and serial cable for the processor unit.



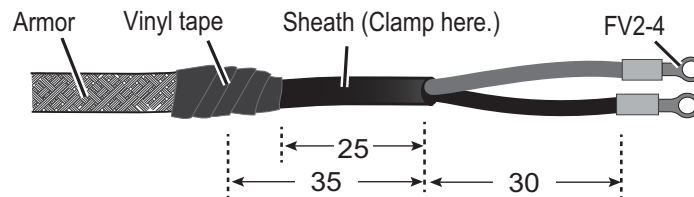
11. Reattach the cable clamp assembly.

2. WIRING

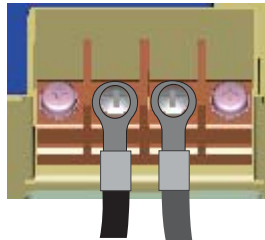
12. Remove the connector cover for the power cable (2 places).



13. Fabricate the power cable (DPYC-2.5) as shown below.



14. Pull up the plastic cover and connect the power cable.



15. Remount the connector cover for the power cable.
16. Reattach the cover of the power supply unit.

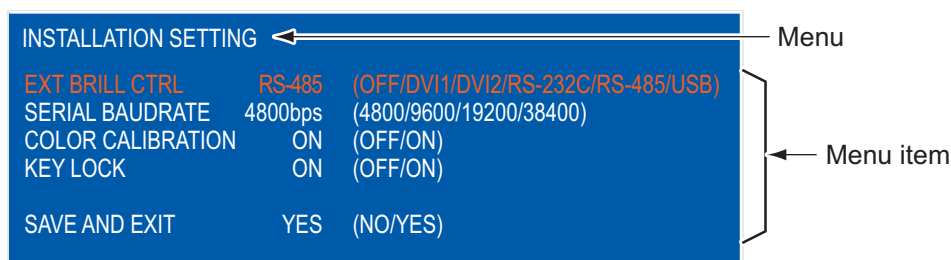
2.5 Monitor Unit

For the wiring of the monitor unit MU-190/231, see the operator's manual supplied with the monitor unit.

Mounting considerations

- Standard type
 - Connect the radar main monitor to the DVI1 and COM1 ports.
 - Connect the sub radar monitor to the DVI2 and COM2 ports.
- VDR connection, ask your dealer
 To connect a VDR, it is necessary to output data in analog format. See the installation manuals for the VDR to prepare the cables to use. To connect a VDR to the DVI3 port, use the optional DVI-BNCX5-L2000 cable to output the RGB signal from the DVI-I. Adjustment of the output is necessary.

The [INSTALLATION SETTING] menu appears only when the power is turned on for the first time after installation of the monitor unit.



Adjust the settings referring to the following table.

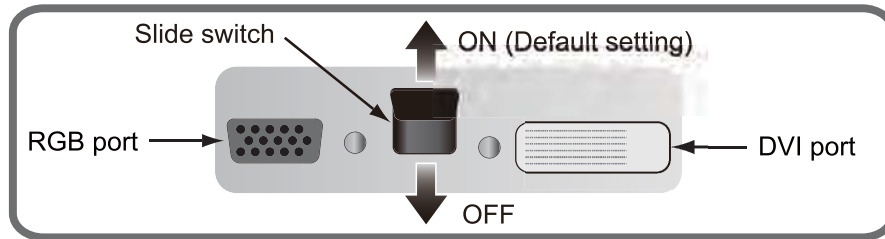
EXT BRILL CTRL	SERIAL BAUD RATE	COLOR CALIBRATION	KEY LOCK	DVI PWR SYNC*
RS-485	4800bps	ON	ON	ON

*: [DVI PWR SYNC] is the slide switch at the bottom rear of the monitor unit. Confirm that this switch is set to [ON] (default setting). See Slide switch below for details.

Slide switch

Set the slide switch to “ON” (default setting). This setting automatically powers the monitor unit on or off according to the DVI signal input. The power switch of the monitor unit is inoperative.

Note: The OFF position provides control of the monitor unit power with the power switch of the monitor unit.



How to open the [INSTALLATION SETTING] menu

Turn off the monitor unit. While you hold the **DISP** key, press the **BRILL** key to turn on the monitor unit. Press and hold the **DISP** key for more than five seconds.

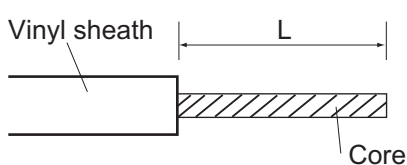
Note: When the [DVI PWR SYNC] slide switch is ON, turn on the connected external equipment while you press the **DISP** key to turn on the monitor unit.

2.6 Sensor Adapters (option)

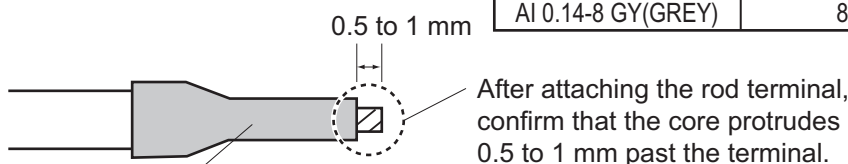
A maximum of eight MC-3000S can be connected to a sensor network (for the redundant connection: 16). The MC-3000S (serial input/output, IEC61162-2/1, 4ch) can connect a maximum of 10 sensor adapters, using the MC1.5-W cables. The maximum number of MC-3010A units is five.

When fabricating the MC1.5-W cables, use the lot terminal (ferrule type, supplied) to maintain performance. Use the ferrule-type terminals (supplied) to connect the cables to the terminals in the sensor adapters. This connection requires a crimping tool (CRIMPFOX10S, option). For the relations between the connectors and rod terminals, see page AP-2. Also, the stickers attached on the reverse side of the covers show the detailed connections.

How to attach ferrule-type terminal



Ferrule-type terminal	Length of "L"
AI 1.5-6 BK (BLK)	6 mm
AI 0.34-6 TQ (BLU)	
AI 0.75-6 GY (GREY)	
AI 1-6 RD (RED)	
AI 0.14-8 GY (GREY)	8 mm



Ferrule-type rod terminal:

After attaching the rod terminal, use the optional crimping tool CRIMPFOX 10S to crimp.

Attach the cables to the applicable pins.

Pin no.	Cable color	Signal
1	Red	24V_OUT or 24V_IN
2	Black	24V_GND
3	White	MODBUS-A
4	Blue	MODBUS-B
5	Gray	GND

Note 1: Use the MC1.5-W cable between the sensor adapters.

Note 2: The total length of the MC1.5-W cables must be less than 6 m to prevent malfunction.

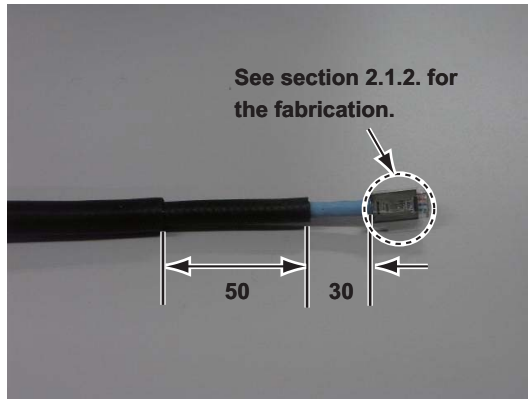
2. WIRING

2.6.1 MC-3000S

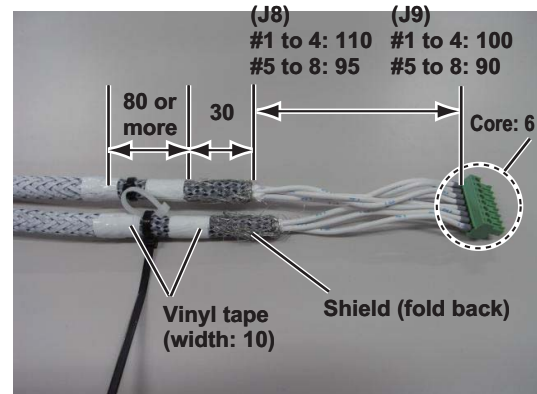
Use the LAN cable FR-FTPC-CY cable to connect the MC-3000S and the processor unit. With HUB-100, a maximum of eight MC-3000S can be connected.

Fabrications

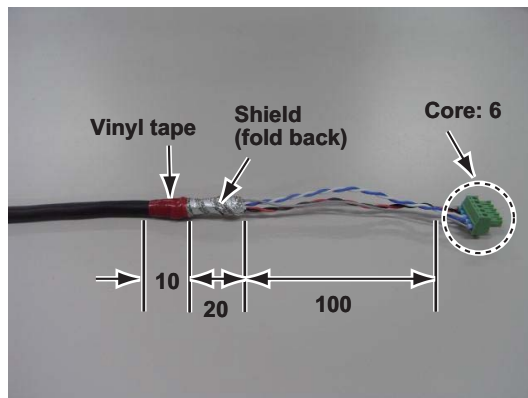
LAN cable (FR-FTPC-CY)



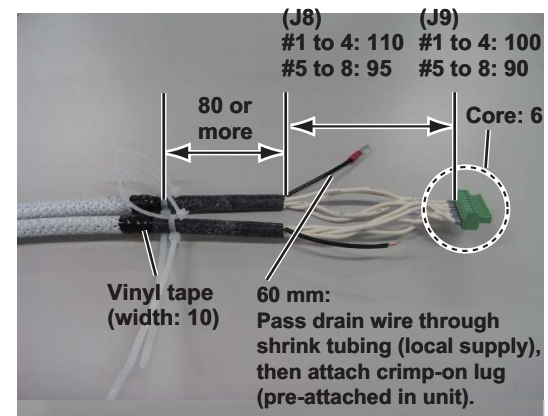
TTYCS-1Q cable



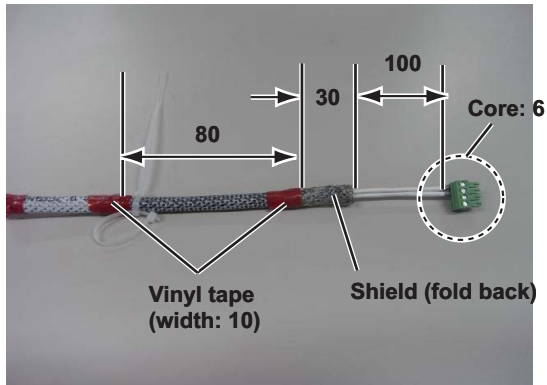
MC1.5-W-L600/1000/2000/3000 cable



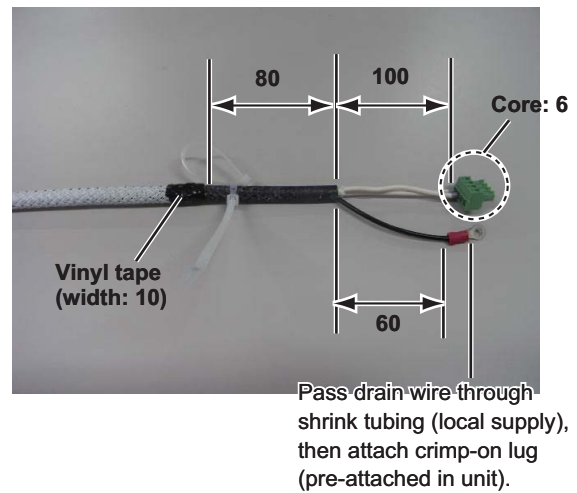
TTYCSLA-1Q cable



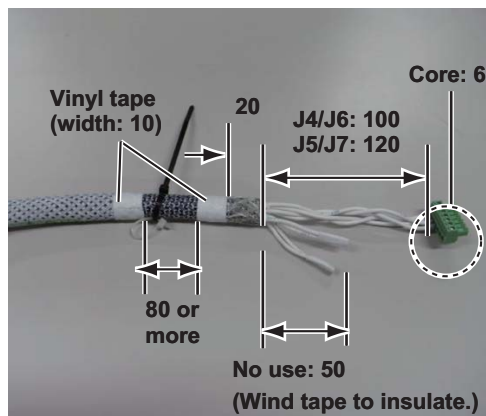
TTYCS-1 cable



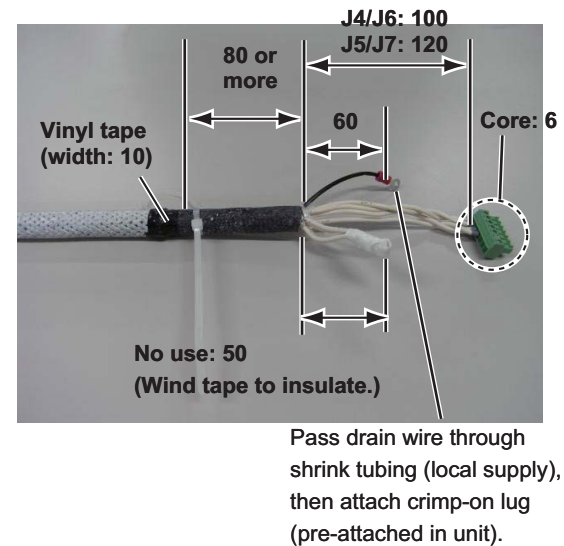
TTYCSLA-1 cable



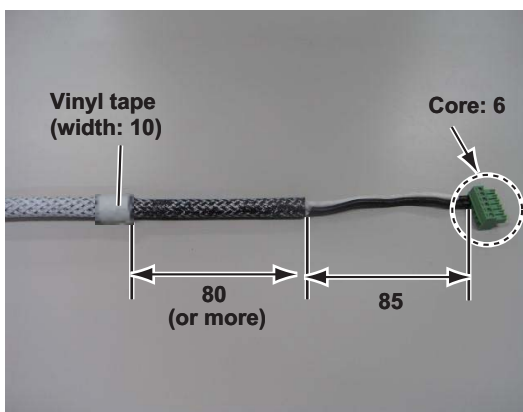
TTYCS-4 cable



TTYCSLA-4 cable



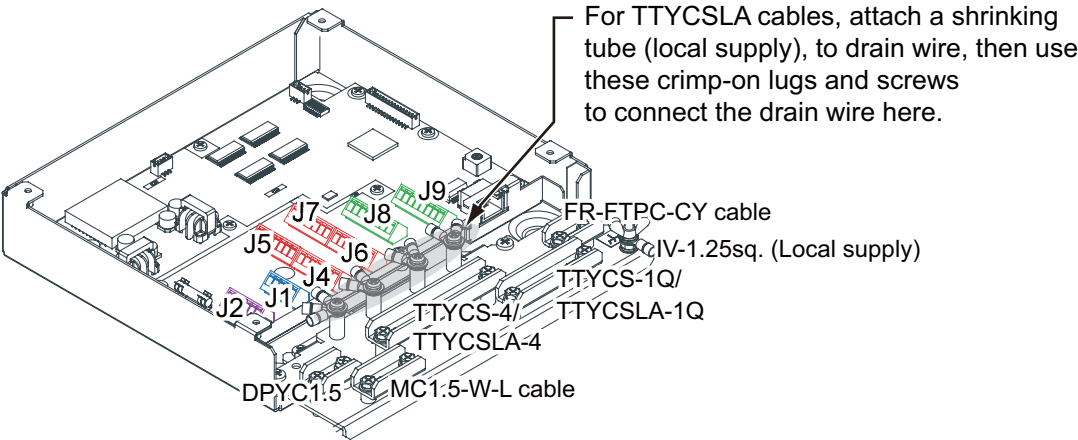
DPYC-1.5 cable



Note: See "How to fabricate the LAN cable" on page 2-14 for how to fabricate the LAN cable.

Connections

Unfasten four screws to remove the cover. Pass the cables through the clamps and attach the cables to respective connectors. The shield (or drain wire) must lie in (connected to) the clamp.



Note: Be sure each cable shield lies in the cable clamp.

How to set NC/NO output (J2)

The POWER FAIL signal on the connector J2 can be set to NC (normal close) output or NO (normal open) output as shown in the table below.

Connector J2

Pin #	Signal name	In/Out	Remarks	NO	NC
1	24V_IN	-	24 VDC	DPYC-1.5	No connection
2	24V_GND	-	GND (24 VDC)		
3	PWR_FAIL_A	Out	Power fail output	TTYCS(LA)-1	TTYCS(LA)-1
4	PWR_FAIL_COM	Out	Power fail output		
5	PWR_FAIL_B	Out	Power fail output	No connection	

How to set input specification (J4 to J9)

For connectors J4 to J7, the connections are different depending on the input specifications as shown below.

Connector J4

Pin #	Signal name	In/Out	Remarks	IEC61162-2	IEC61162-1	Modbus*
1	TD1-A	Out	Serial CH1, output IEC61162-1/2/modbus	TTYCS(LA)-4	TTYCS(LA)-4	TTYCS(LA)-4
2	TD1-B	Out	Serial CH1, output IEC61162-1/2/modbus			
3	RD1-A	In	Serial CH1, input IEC61162-2/modbus		No connection	No connection
4	RD1-B	In	Serial CH1, input IEC61162-2/modbus			
5	ISOGND1	-	Isolation, GND (CH1)			
6	RD1-H	In	Serial CH1, input IEC61162-1	No connection	TTYCS(LA)-4	
7	RD1-C	In	Serial CH1, input IEC61162-1			

*: Set the jumpers J20/J21 to Modbus.

Connector J5

Pin #	Signal name	In/Out	Remarks	IEC61162-2	IEC61162-1	Modbus*
1	TD2-A	Out	Serial CH2, output IEC61162-1/2/modbus	TTYCS(LA)-4	TTYCS(LA)-4	TTYCS(LA)-4
2	TD2-B	Out	Serial CH2, output IEC61162-1/2/modbus			
3	RD2-A	In	Serial CH2, input IEC61162-2/modbus		No connection	No connection
4	RD2-B	In	Serial CH2, input IEC61162-2/modbus			
5	ISOGND2	-	Isolation, GND (CH2)			
6	RD2-H	In	Serial CH2, input IEC61162-1	No connection	TTYCS(LA)-4	
7	RD2-C	In	Serial CH2, input IEC61162-1			

*: Set the jumpers J20/J21 to Modbus.

2. WIRING

Connector J6

Pin #	Signal name	In/Out	Remarks	IEC61162-2	IEC61162-1
1	TD3-A	Out	Serial CH3, output IEC61162-1/2	TTYCS(LA)-4	TTYCS(LA)-4
2	TD3-B	Out	Serial CH3, output IEC61162-1/2		No connection
3	RD3-A	In	Serial CH3, input IEC61162-2		
4	RD3-B	In	Serial CH3, input IEC61162-2		
5	ISOGND3	-	Isolation, GND (CH3)		
6	RD3-H	In	Serial CH3, input IEC61162-1	No connection	TTYCS(LA)-4
7	RD3-C	In	Serial CH3, input IEC61162-1		

Connector J7

Pin #	Signal name	In/Out	Remarks	IEC61162-2	IEC61162-1
1	TD4-A	Out	Serial CH4, output IEC61162-1/2	TTYCS(LA)-4	TTYCS(LA)-4
2	TD4-B	Out	Serial CH4, output IEC61162-1/2		No connection
3	RD4-A	In	Serial CH4, input IEC61162-2		
4	RD4-B	In	Serial CH4, input IEC61162-2		
5	ISOGND4	-	Isolation, GND (CH4)		
6	RD4-H	In	Serial CH4, input IEC61162-1	No connection	TTYCS(LA)-4
7	RD4-C	In	Serial CH4, input IEC61162-1		

Connector J8

Pin#	Signal name	In/Out	Description	Used cable
1	TD5-A	Out	Serial CH5, output IEC61162-1	TTYCS-1Q or TTYCSLA-1Q
2	TD5-B	Out	Serial CH5, output IEC61162-1	
3	RD5-H	In	Serial CH5, input IEC61162-1	
4	RD5-C	In	Serial CH5, input IEC61162-1	
5	TD6-A	Out	Serial CH6, output IEC61162-1	
6	TD6-B	Out	Serial CH6, output IEC61162-1	
7	RD6-H	In	Serial CH6, input IEC61162-1	
8	RD6-C	In	Serial CH6, input IEC61162-1	

Connector J9

Pin#	Signal name	In/Out	Description	Used cable
1	TD7-A	Out	Serial CH7, output IEC61162-1	TTYCS-1Q or TTYCSLA-1Q
2	TD7-B	Out	Serial CH7, output IEC61162-1	
3	RD7-H	In	Serial CH7, input IEC61162-1	
4	RD7-C	In	Serial CH7, input IEC61162-1	
5	TD8-A	Out	Serial CH8, output IEC61162-1	
6	TD8-B	Out	Serial CH8, output IEC61162-1	
7	RD8-H	In	Serial CH8, input IEC61162-1	
8	RD8-C	In	Serial CH8, input IEC61162-1	

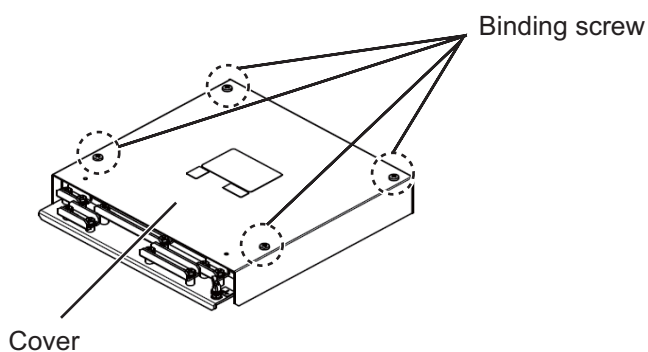
Case gasket OP24-28

The optional kit OP24-28 protects the connectors on the MC-3000C to waterproofing standard IPX2.

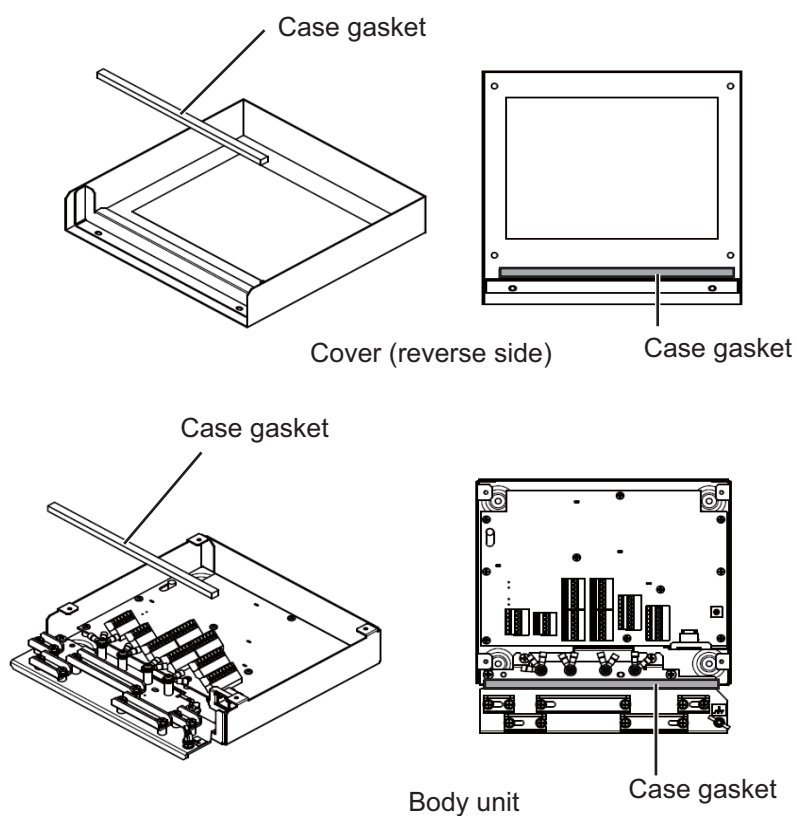
Case gasket (type: OP24-28, code no.: 001-169-970)

Name	Type	Code No.	Qty	Remarks
Case gasket (serial)	24-014-2051	100-367-880-10	2	For MC-3000S

1. Unfasten four binding screws to remove the cover from the adapter.



2. Peel the paper from the case gasket, then attach the case gasket to the reverse side of the cover and the body unit as shown below.



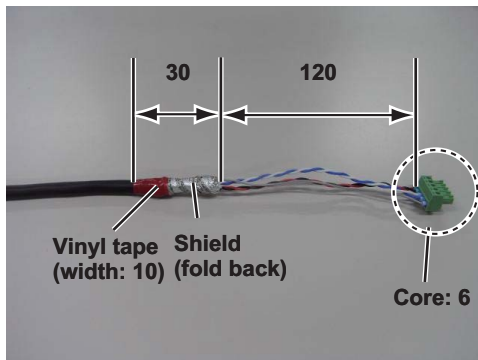
3. Attach the cover to the MC-3000S body unit.

2.6.2 MC-3010A/3020D/3030D

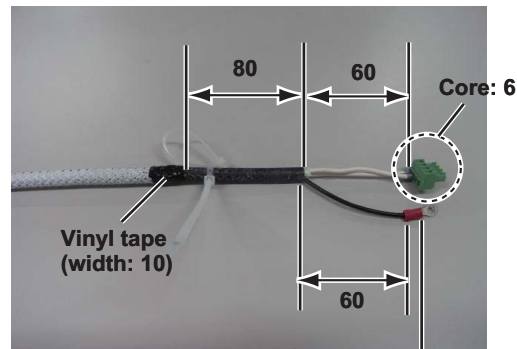
- MC-3010A: Inputs analog signal. To use MC-3010A as current input, connect short pins to each terminals.
- MC-3020D: Inputs digital signal (8ch contact input). Contact or voltage input is selectable (contact input requires short pins).
- MC-3030D: Outputs digital signal (8ch, normal open/close).

Fabrications

MC1.5-W-L600/1000/2000/3000 cable
(Input)

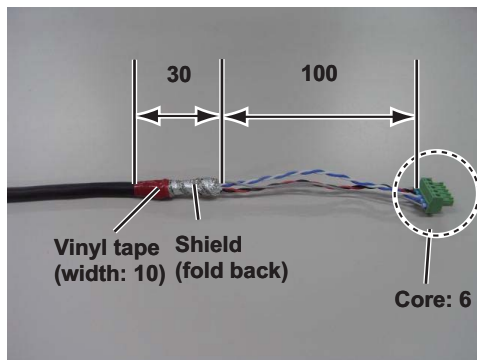


TTYCSLA-1 (MC-3010A)

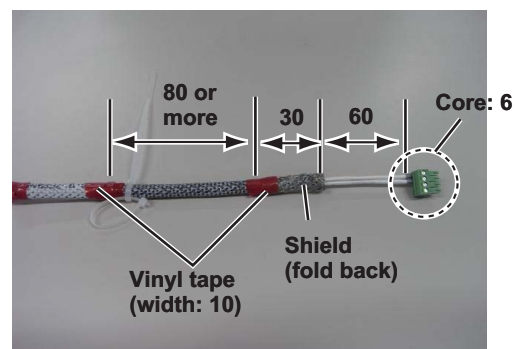


Pass drain wire through shrink tubing (local supply), then attach crimp-on lug (pre-attached in unit).

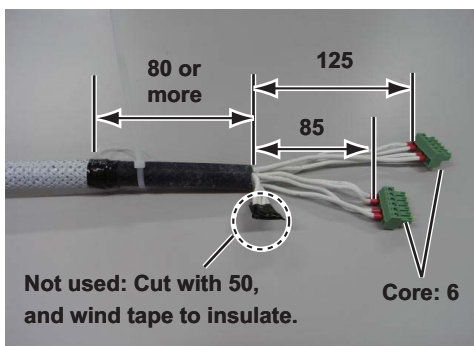
MC1.5-W-L600/1000/2000/3000 cable
(Output)



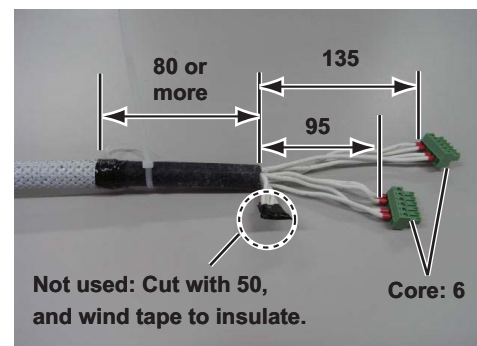
TTYCS-1 (MC-3010A)

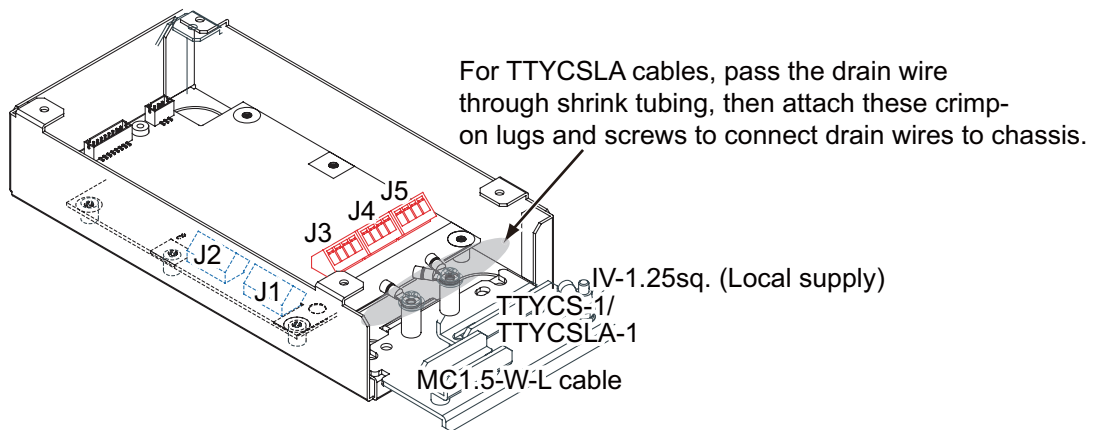


MPYC-12 cable (MC-3030D)

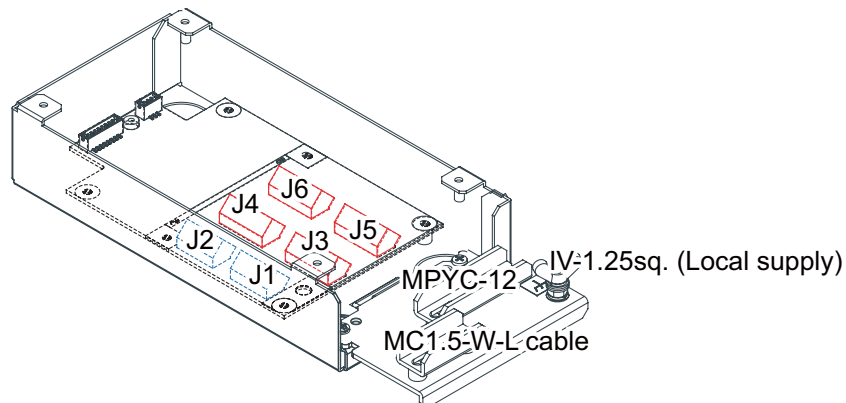


MPYC-12 cable (MC-3020D)



Connection

Note: The cable shield must lie in the cable clamp.



Note: The cable shield must lie in the cable clamp.p.

MC-3020D/3030D

Input method (MC-3010A only)

Select the method of the analog data input, power voltage or power current.

Note 1: The input must not exceed the range of the input voltage, to prevent malfunction.

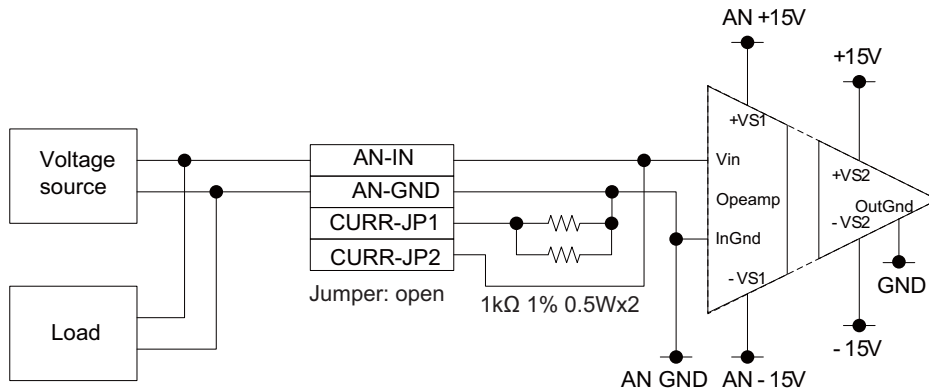
-Setting for voltage input: -10V to +10V or 0 to 10V (depending on the setting)

-Setting for contact input: Voltage 4mA to 20mA

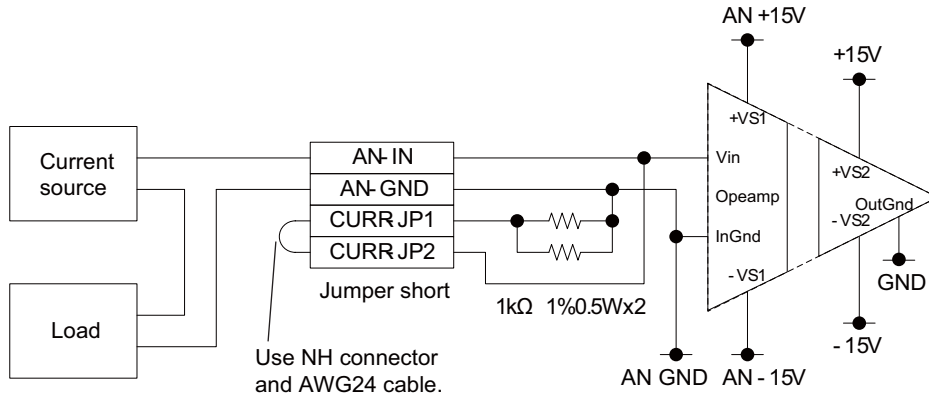
Note 2: When changing the input method, turn off the MC-3010A and on again to put change in effect.

2. WIRING

- Power voltage: Input the amount of power voltage change to the operational amplifier.



- Power current: Pass the power current to the shunt resistor, 1kΩ/parallel (combined resistance: 500Ω) to input the amount of voltage change at the both ends of the resistor to the operational amplifier.



Connector J3

Pin #	Signal name	In/Out	Description	Power voltage	Power current
1	AN1_IN	In	Analog 1 input	TTYCS(LA)-1	
2	AN1_GND	-	Analog 1 GND		
3	CURR1_JP1	-	Analog 1 input, power current/voltage setting jumper 1	Pin #3-#4: open	Pin #3-#4: short
4	CURR1_JP2	-	Analog 2 input, power current/voltage setting jumper 1		

Connector J4

Pin #	Signal name	In/Out	Description	Power voltage	Power current
1	AN2_IN	In	Analog 2 input	TTYCS(LA)-1	
2	AN2_GND	-	Analog 2 GND		
3	CURR2_JP1	-	Analog 2 input, power current/voltage setting jumper 1	Pin #3-#4: open	Pin #3-#4: short
4	CURR2_JP2	-	Analog 2 input, power current/voltage setting jumper 1		

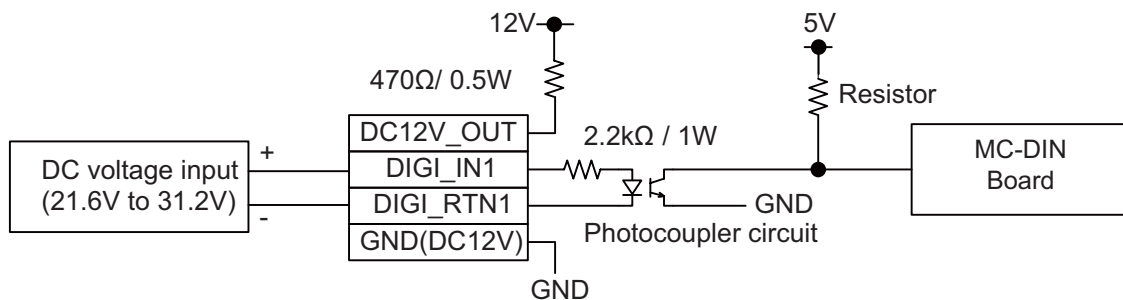
Connector J5

Pin #	Signal name	In/Out	Description	Power voltage	Power current
1	AN3_IN	In	Analog 3 input	TTYCS(LA)-1	
2	AN3_GND	-	Analog 3 GND		
3	CURR3_JP1	-	Analog 3 input, power current/ voltage setting jumper 1	Pin #3-#4: open	Pin #3-#4: short
4	CURR3_JP2	-	Analog 3 input, power current/ voltage setting jumper 1		

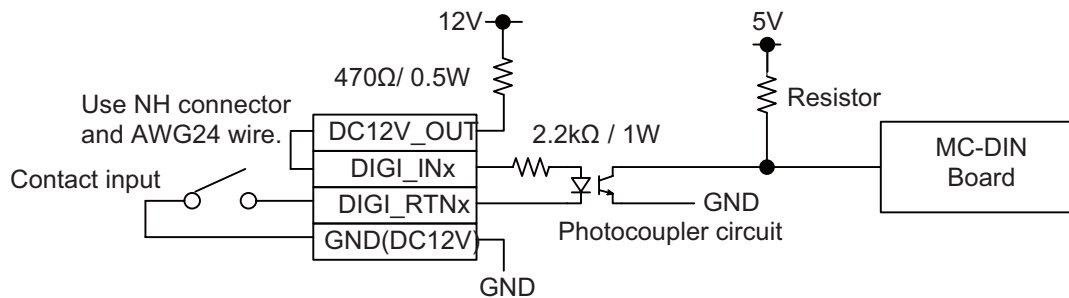
How to set ACK input (MC-3020D)

Use the connectors J3 to J6 to set the ACK input for ACK1 to ACK8 as shown below.

- Input circuit for voltage input



- Input circuit for contact input



Note: The input must not exceed the range of the input voltage, to prevent malfunction.

-Setting for voltage input: 21.6V to 31.2V

-Setting for contact input: Voltage cannot be input (contact signal only).

Connector J3

Pin #	Signal name	In/Out	Remarks	ACK1 contact	ACK1 voltage	ACK2 contact	ACK2 voltage
1	DC12V_OUT	Out	ACK1 In	Pin #1-#2: short	No connection	According to ACK1 input	
2	DIGI_IN1	In			MPYC-12		
3	DIGI_RTN1	Out		MPYC-12			
4	GND (DC12V)	In					

2. WIRING

Pin #	Signal name	In/Out	Remarks	ACK1 contact	ACK1 voltage	ACK2 contact	ACK2 voltage
5	DC12V_OUT	Out	ACK2 In	According to ACK2 input		Pin #1-#2: short	No connection
6	DIGI_IN2	In					MPYC-12
7	DIGI_RTN2	Out				MPYC-12	No connection
8	GND (DC12V)	In					

Connector J4

Pin #	Signal name	In/Out	Remarks	ACK3 contact	ACK3 voltage	ACK4 contact	ACK4 voltage
1	DC12V_OUT	Out	ACK3 In	Pin #1-#2: short MPYC-12	No connection	According to ACK3 input	
2	DIGI_IN3	In			MPYC-12		
3	DIGI_RTN3	Out			No connection		
4	GND (DC12V)	In					
5	DC12V_OUT	Out	ACK4 In	According to ACK4 input		Pin #1-#2: short	No con- nection
6	DIGI_IN4	In					MPYC-12
7	DIGI_RTN4	Out				MPYC-12	No con- nection
8	GND (DC12V)	In					

Connector J5

Pin #	Signal name	In/Out	Remarks	ACK5 contact	ACK5 voltage	ACK6 contact	ACK6 voltage
1	DC12V_OUT	Out	ACK5 In	Pin #1-#2: short	No connection	According to ACK5 input	
2	DIGI_IN5	In			MPYC-12		
3	DIGI_RTN5	Out		MPYC-12	No connection		
4	GND (DC12V)	In					
5	DC12V_OUT	Out	ACK6 In	According to ACK6 input		Pin #1-#2: short	No connection
6	DIGI_IN6	In				MPYC-12	
7	DIGI_RTN6	Out				MPYC-12	No connection
8	GND (DC12V)	In					

Connector J6

Pin #	Signal name	In/Out	Remarks	ACK7 contact	ACK7 voltage	ACK8 contact	ACK8 voltage
1	DC12V_OUT	Out	ACK1 In	Pin #1-#2: short	No connection	According to ACK7 input	
2	DIGI_IN7	In			MPYC-12		
3	DIGI_RTN7	Out		MPYC-12			
4	GND (DC12V)	In					
5	DC12V_OUT	Out	ACK2 In	According to ACK8 input		Pin #1-#2: short	No connection
6	DIGI_IN8	In					MPYC-12
7	DIGI_RTN8	Out				MPYC-12	No connection
8	GND (DC12V)	In					

How to set alarm output (MC-3030D)

Use the connector J3 to J6 on the MC_OUT Board (24P0117) to select NC (normal close) or NO (normal open) for alarm output 1 to 8.

Connector J3

Pin #	Signal name	In/ Out	Remarks	Alarm1 NO Out	Alarm1 NC Out	Alarm2 NO Out	Alarm2 NC Out
1	A1	Out	Alarm1 Out	MPYC-12	No connection	-	
2	COM1				MPYC-12		
3	B1			No connection			
4	A2		Alarm2 Out	-		MPYC-12	No connection
5	COM2						MPYC-12
6	B2					No connection	

Connector J4

Pin #	Signal name	In/ Out	Remarks	Alarm3 NO Out	Alarm3 NC Out	Alarm4 NO Out	Alarm4 NC Out
1	A3	Out	Alarm3 Out	MPYC-12	No connection	-	
2	COM3				MPYC-12		
3	B3			No connection			
4	A4		Alarm4 Out	-		MPYC-12	No connection
5	COM4						MPYC-12
6	B4					No connection	

2. WIRING

Connector J5

Pin #	Signal name	In/Out	Remarks	Alarm5 NO Out	Alarm5 NC Out	Alarm6 NO Out	Alarm6 NC Out
1	A5	Out	Alarm5 Out	MPYC-12	No connection	-	
2	COM5				MPYC-12		
3	B5			No connection			
4	A6		Alarm5 Out	-		MPYC-12	No connection
5	COM6						MPYC-12
6	B6					No connection	

Connector J6

Pin #	Signal name	In/Out	Remarks	Alarm7 NO Out	Alarm7 NC Out	Alarm8 NO Out	Alarm8 NC Out
1	A7	Out	Alarm7 Out	MPYC-12	No connection	-	
2	COM7				MPYC-12		
3	B7			No connection			
4	A8		Alarm8 Out	-		MPYC-12	No connection
5	COM8						MPYC-12
6	B8					No connection	

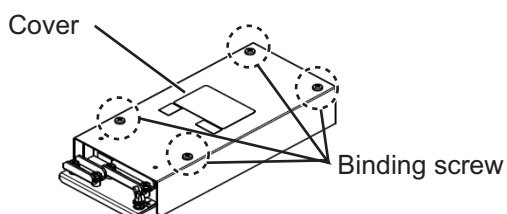
Case gasket OP24-29

The optional kit OP24-29 protects the connectors on the MC-3010A/3020D/3030D to waterproofing standard IPX2.

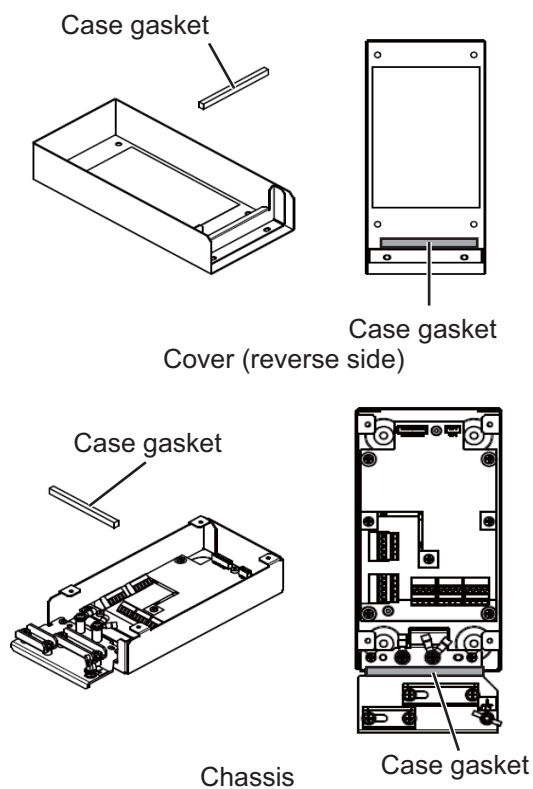
Case gasket (type: OP24-29, code no.: 001-169-960)

Name	Type	Code No.	Qty	Remarks
Case gasket (analog)	24-014-2052-1	100-367-961-10	2	MC-3010A/3020D/3030D

1. Unfasten four binding screws to remove the cover from the adapter.



2. Peel the paper from the case gasket, then attach the case gasket to the reverse side of the cover and the body unit as shown below.

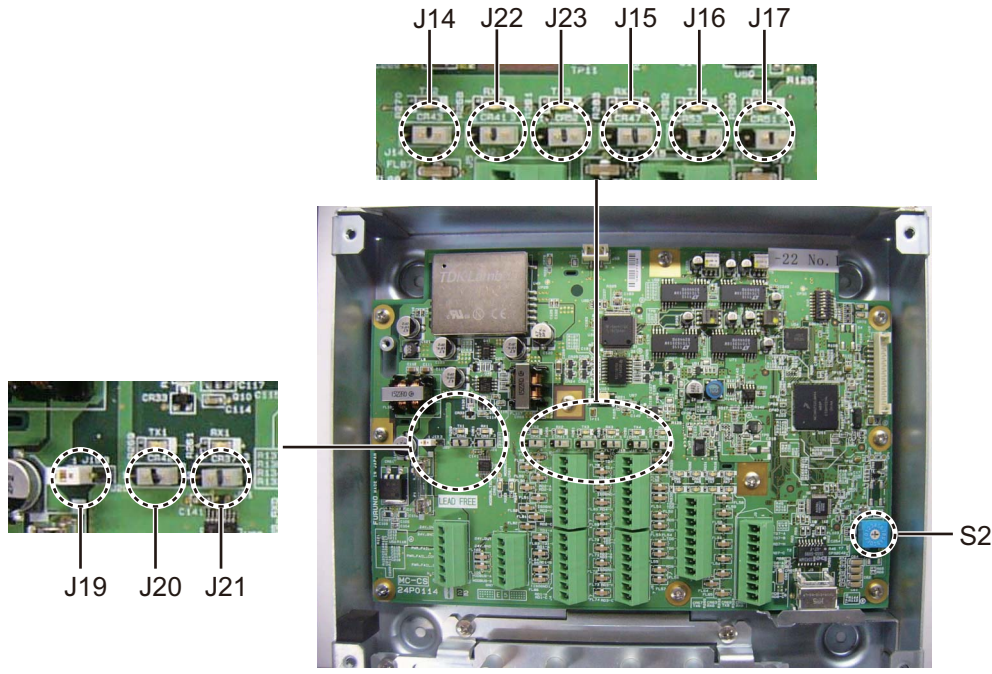


3. Attach the cover to the MC-3010A/3020D/3030D chassis.

2.6.3 How to set jumper blocks in the sensor adapters

MC-3000S

See the jumper blocks on the MC-CS Board (24P0114) referring to the tables that follow.



MC-CS Board (24P0114)

Rotary switch: Use the rotary switch (S2) to set the Modbus address when setting connectors J4/J5 to Modbus. The Modbus address set at J4/J5 in the network is not used. When setting J4/J5 to IEC61162-1/2, use the default setting ("0").

Jumper block: Use the jumper block J19 to set the termination resistor on/off for the MODBUS communication on the connector J1. For the first and last sensor adapter in a series, their termination resistors must be set to ON. Use the MC-CS Board with the default setting because it becomes the "first" adapter in a series.

Jumper block J19		Connector J1
1-2	SHORT	Termination resistor: ON (default setting)
2-3	OPEN	
1-2	OPEN	Termination resistor: OFF
2-3	SHORT	

Set the jumper blocks J14 through J17 to turn the termination resistors on connectors J4 through J7, respectively.

(Termination resistor ON)

- When setting the starting/ending terminal for the multipoint, or the multipoint is not connected (CH1 to 4).
- When setting the starting/ending terminal for Modbus (CH1, CH2)

(Terminal resistor OFF)

- When setting the terminal other than starting/ending for the multipoint (CH1 to 4).
- When setting the terminal other than starting/ending for Modbus (CH1/CH2)

Jumper block J14		Connector J4 (CH1)
1-2	SHORT	Termination resistor: ON (default setting)
2-3	OPEN	
1-2	OPEN	Termination resistor: OFF
2-3	SHORT	

Jumper block J15		Connector J5 (CH2)
1-2	SHORT	Termination resistor: ON (default setting)
2-3	OPEN	
1-2	OPEN	Termination resistor: OFF
2-3	SHORT	

Jumper block J16		Connector J6 (CH3)
1-2	SHORT	Termination resistor: ON (default setting)
2-3	OPEN	
1-2	OPEN	Termination resistor: OFF
2-3	SHORT	

Jumper block J17		Connector J7 (CH4)
1-2	SHORT	Termination resistor: ON (default setting)
2-3	OPEN	
1-2	OPEN	Termination resistor: OFF
2-3	SHORT	

Set the jumper blocks J20 and J21 to choose the communication type (IEC-61162-1/2 or MODBUS) of the connector J4 (CH1).

The setting of the jumper block JP20 and JP21 must be identical.

Jumper block J20/J21		Communication type of J4 (between RD1 and TD1)
1-2	OPEN	IEC-61162-1/2 (default setting)
2-3	SHORT	
1-2	SHORT	MODBUS (The setting of J14 is different depending on the unit position (starting/ending terminal).)
2-3	OPEN	

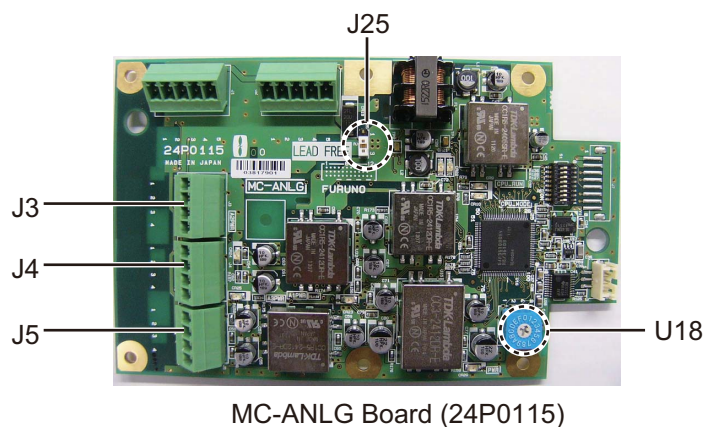
The jumper blocks J22 and J23 are used to set the communication type of the connector J5 (CH2).

Jumper block J22/J23		Communication type of J5 (between RD2 and TD2)
1-2	OPEN	IEC-61162-1/2 (default setting)
2-3	SHORT	
1-2	SHORT	MODBUS (The setting of J14 is different depending on the unit position (starting/ending terminal).)
2-3	OPEN	

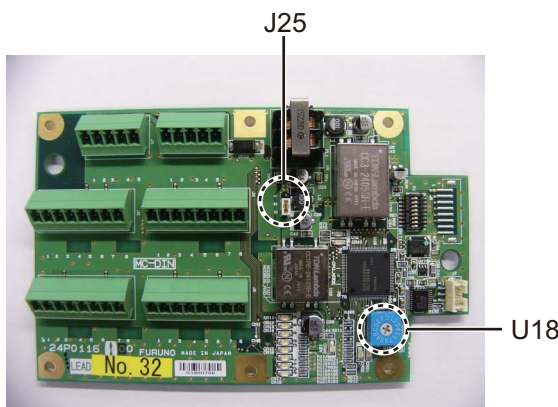
MC-3010A/3020D/3030D

This paragraph shows how to set the MC-ANLG Board (24P0115, for MC-3010A), MC-DIN Board (24P0116, for MC-3020D) and MC-DOUT Board (24P0117, for MC-3030D).

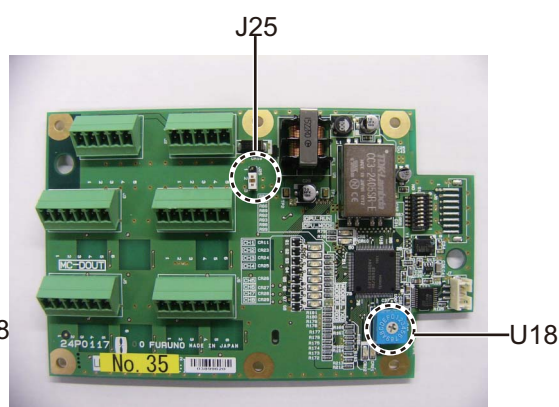
Rotary switch: Use the rotary switch (U18) to set the MODBUS address with a digit of number from “0”. When multiple sensor adapters are connected to the MC-3000S, the same number cannot be used among them. (It is allowed to use the same number between the MC-3000S and a sensor adapter.)



MC-ANLG Board (24P0115)



MC-DIN Board (24P0116)



MC-DOUT Board (24P0117)

Jumper block: Use the jumper block J25 to set the termination resistor on/off for the MODBUS communication on the connector J1. For the first and last sensor adapter in a series, their termination resistors must be set to ON. If not, communication between sensor adapters is not possible.

Jumper block J25		Connector J1
1-2	OPEN	Termination resistor: ON
2-3	SHORT	
1-2	SHORT	Termination resistor: OFF (default setting)
2-3	OPEN	

2.7 LAN Signal Converter Kit (option)

The LAN Signal Converter allows the use of existing antenna cable RW-4873/6895/9600, or enables installation of the antenna unit on the foremast, using new antenna cable RW-9600. Two converters are required, one in the antenna unit, one in the power supply unit.

Kit contents (Type: OP03-223-3, Code no.: 001-254-380)

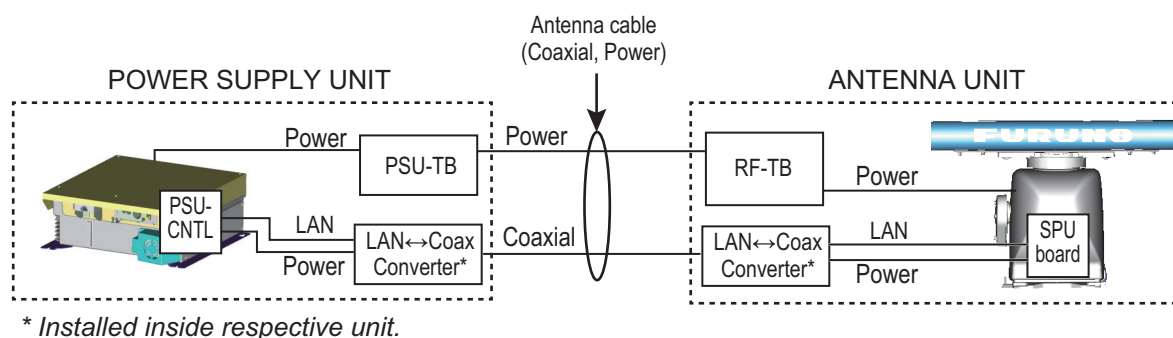
Name	Type	Code no.	Qty	Remarks
LAN Signal converter	OP03-223	001-249-930	1	For PSU
	OP03-223	001-254-350		For antenna unit
XH Connector	03-2425(2P)	001-249-940	1	Power cable
Binding Screw	M3×6	000-176-673-10	1	For PSU
LAN Signal Converter Kit	C32-01312-*	000-178-775-10	1	Installation instructions

2.7.1 Application overview

The LAN Signal Converter has two applications.

Application 1: Use with existing antenna cable (retrofit)

Use with existing antenna cable (RW-4873/6895/9600) in case of retrofit. The maximum length of the antenna cable is 100 m.

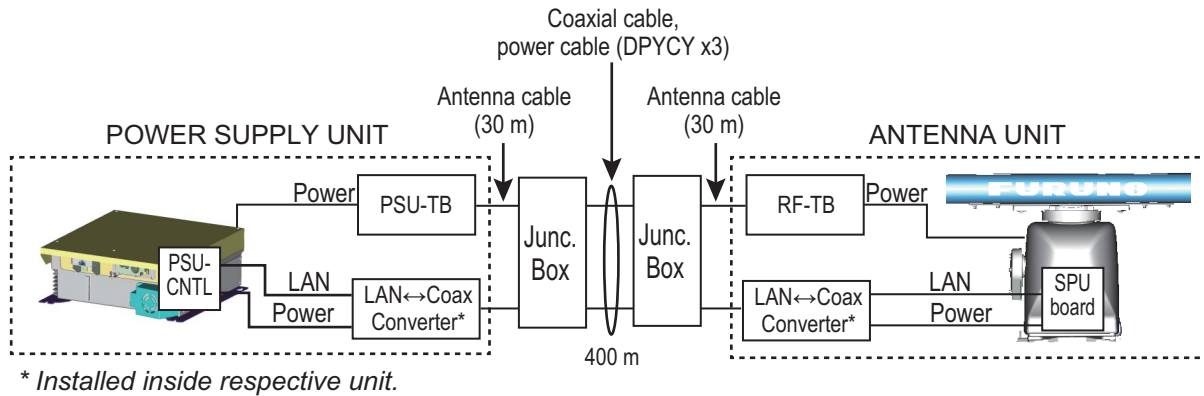


Method 1: Using existing antenna cable (RW-4873/6895/9600)

Application 2: Foremast installation

Foremast installation, where the distance between the antenna unit and the power supply unit is more than 100 m (max. 460 m). See section 2.8 and the interconnection diagram for connections in the junction box.

The Cable Extension Kit (Type: OP03-224-3, Code No.: 001-254-410), comprised of two junctions boxes, two LAN Signal Converters and necessary hardware, is optionally available.

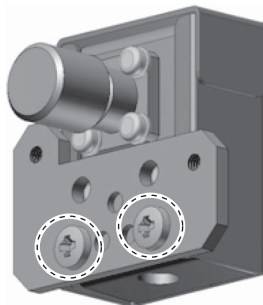
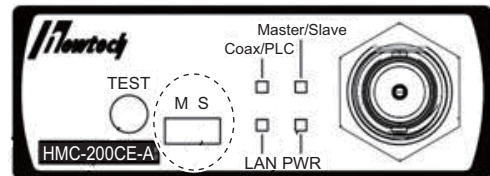


Method 2: Using antenna cable RW-9600 (new)

2.7.2 Installation in the antenna unit

Dismount the transceiver unit. See section 2.2.2 for the procedure.

1. Set the M_S switch on the converter to the S (Slave) position.
2. Fasten the BNC case to its mounting plate with two screws.



3. Loosen two screws on the BNC case. Attach the coaxial cable of the antenna cable then close the case.

