IB No IB-0800180-D Model AJ65FBTA42-16DTEU

# AJ65FBTA42-16DTE CC-Link System Low Profile Waterproof Type Remote I/O Module User's Manual

#### SAFETY PRECAUTIONS

(Read these precautions before using.)

When using this equipment, thoroughly read this manual. Also pay careful attention to safety and handle the module properly.

These precautions apply only to this equipment. Refer to the CPU module user's manual for a description of the PC system safety precautions.

These ●SAFETY PRECAUTIONS● classify the safety precautions into two categories: "DANGER" and "CAUTION".

! DANGER

Procedures which may lead to a dangerous condition and cause death or serious injury if not carried out properly

CAUTION

Procedures which may lead to a dangerous condition and cause superficial to medium injury, or physical damage only, if not carried out properly.

Depending on circumstances, procedures indicated by ACAUTION may also result in to serious results

In any case, it is important to follow the directions for usage

Store this manual in a safe place so that you can take it out and read it whenever necessary. Always forward it to the end user.

#### [DESIGN PRECAUTIONS]

# !DANGER

When a communication error occurs in the data link, the communication error station will be in the following condition. Configure an interlocking circuit in a sequence program using the communication status information so that the safety of the overall system is always maintained.

Accident may occur due to output error or malfunction.

- (1) Input points from remote I/O station will be all switched off.
- (2) Output points from remote I/O station will be all switched off.
  I/O could be switched on or off when a problem occurs in the remote I/O modules.
  So build an external monitoring circuit that will monitor any I/O signals that could cause a serious accident.

# CAUTION

- Use each module in an environment as specified in the "general specification" in the CPU module user's manual. Usage of the module outside the general specification range may cause electric shock, fire, malfunction, product damage or deterioration.
- Do not have control cables and communication cables bundled with or placed near by the main circuit and/or power cables. Wire those cables at least 100mm(3.94 inch) away from the main circuit and/or power cables. It may cause malfunction

### [INSTALLATION PRECAUTIONS]

## <u>^</u>.CAUTION

- Do not directly touch the module's conductive parts. Doing so could cause malfunction or trouble in the module.
- Tighten the module securely using DIN rail or installation screws within the
- specified torque range. Loose terminal screws may cause a short circuit or erroneous operation. If the

terminal screws are too tight, it may cause falling, short circuit or erroneous operation due to damage of the screws

#### [WIRING PRECAUTIONS]

# (!)DANGER

Completely turn off the externally supplied power used in the system when installing or placing wiring. Not completely turning off all power could result in electric shock or damage to the product.

# .^.CAUTION

- Be sure to ground the FG terminals to the protective ground conductor.
- Not doing so could result in electric shock or erroneous operation.

  When wiring in the PLC, be sure that it is done correctly by checking the product's rated voltage and the terminal layout.
- Fix the attachment screws of waterproof cap and communication adapter securely
  - within the specified torque range.

    Loose attachment screws may cause a fire or erroneous operation. If the attachment screws are too tight, it may cause a short circuit or erroneous
- operation due to damage of the screws.

  Make sure that foreign objects do not get in side the module, such as dirt and wire chips. It may cause fire product failure or malfunction.
- IP67 is only satisfied when the waterproof plug, waterproof cap, and communication adapter are all connected.
- Do not attach the communication cable to the I/O connector, as the I/O connector, the communication connector and the power supply connector are the same in shape.
  - Failure to do so may cause frailer or malfunction of the PLC.
- Be sure to fix the wires or cables by ducts or clamps when connecting them to the module. Failure to do so may cause damage of the module or the cables due to accidental pull or unintentional shifting of the cables, or malfunctions due to poor contact of the cable.
- Do not install the control lines together with the communication cables, or bring them close to each other. Failure to do so may cause malfunctions due to noise.

#### [WIRING PRECAUTIONS]

## **\_**CAUTION

When disconnecting a communication or power supply cable from the module, do not pull on the cable itself.

Disconnect cables not fitted with a connectors by holding and pulling the cable connector. Disconnect cables not fitted with a connector by removing the screws from the part connected to the module can cause damage to the module or cable, or, malfunction due to cable connection faults.

# [STARTING AND MAINTENANCE PRECAUTIONS]

### <!>DANGER

- Do not touch terminals when the power is on. Doing so could cause an electric shock.
- Switch off all phases of the externally supplied power used in the system when cleaning the module or retightening the terminal or module mounting screws. Not doing so could result in electric shock.

## 

- Never try to disassemble of modify module. It may cause product failure,
- malfunction, fire or cause injury.

  Do not drop or apply any strong impact to the module. Doing so may damage the module.
- Completely turn off the externally supplied power used in the system before mounting or removing the module to/from the panel. Not doing so could result in damage to the product.
- Always make sure to touch the grounded metal to discharge the electricity charged in the electricity charged in the body, etc., before touching the module. Failure to do say cause a failure or malfunctions of the module

### [DISPOSAL PRECAUTIONS]

#### 

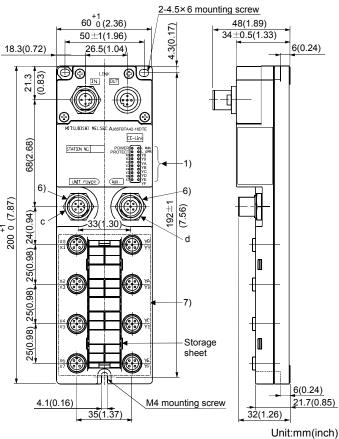
• When disposing of this product, treat it as industrial waste.

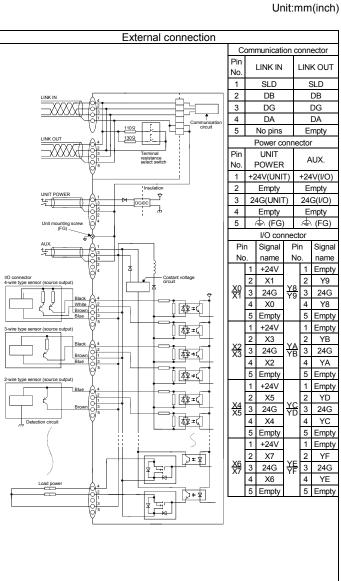
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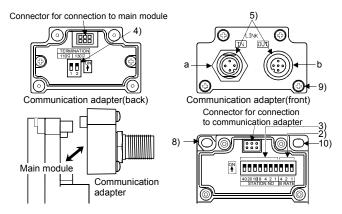
### 1. Specification

| ÷                           | Opcomodite.              | <u> </u>   | December 1   |  |  |  |  |  |
|-----------------------------|--------------------------|------------|--|--|--|--|--|--|
|                             | Item                     |            | Description  |  |  |  |  |  |
|                             | Number of inpu           |            | 8 points   |  |  |  |  |  |
|                             | Isolation method         |            | Photocoupler   |  |  |  |  |  |
|                             | Rated input vo           |            | 24 V DC  |  |  |  |  |  |
|                             | Rated input current      |            | Approx. 7 mA   |  |  |  |  |  |
|                             | Operating voltage range  |            | 20.4 to 26.4 V DC (ripple ratio: within 5 %)   |  |  |  |  |  |
| ±                           | Max. simultane           | ous ON     | 100 %  |  |  |  |  |  |
| 힏                           | input points             |            | 100 /0   |  |  |  |  |  |
| =                           | ON voltage/ON            |            | 14 V or higher/3.5 mA or higher  |  |  |  |  |  |
|                             | OFF voltage/O            | FF current | 6 V or lower/1.7 mA or lower   |  |  |  |  |  |
|                             | Input resistanc          | Э          | Approx. 3.3 kΩ   |  |  |  |  |  |
|                             | Response                 | OFF→ON     | 1.5 ms or lower (when 24 V DC)   |  |  |  |  |  |
|                             | time                     | ON→OFF     | 1.5 ms or lower (when 24 V DC)   |  |  |  |  |  |
|                             | Input form               |            | Negative common (source type)  |  |  |  |  |  |
|                             | Number of out            | out points | 8 points   |  |  |  |  |  |
|                             | Isolation metho          |            | Photocoupler   |  |  |  |  |  |
|                             | Rated load voltage       |            | 24 V DC  |  |  |  |  |  |
|                             | Operating load           |            | 00.44 00.444.0044 4 6 644.004  |  |  |  |  |  |
|                             | range                    | ronago     | 20.4 to 26.4 V DC (ripple ratio: within 5 %)   |  |  |  |  |  |
|                             | Max. load curre          | ent        | 1.0 A/point 4.0 A/common   |  |  |  |  |  |
|                             | Max. load inrush current |            | 2.0 A 10 ms or lower   |  |  |  |  |  |
|                             | Leakage curre            |            | 0.3 mA or lower  |  |  |  |  |  |
| ≒                           |                          |            | 0.15 V or lower (TYP.) 1.0 A,  |  |  |  |  |  |
| ₫                           | Max. voltage d           | op at ON   | 0.2 V or lower (MAX.) 1.0 A  |  |  |  |  |  |
| Q                           | Max. voltage d           | OFF→ON     | 0.5 ms or lower  |  |  |  |  |  |
|                             | time                     | ON→OFF     | 1.5 ms or lower (resistive load)   |  |  |  |  |  |
|                             | Output form              |            | Source type  |  |  |  |  |  |
|                             |                          |            | Overload protection function, overheat protection  |  |  |  |  |  |
|                             | Protection fund          | tion       | function LED lights up when protection is occurring.   |  |  |  |  |  |
|                             | External power Voltage   |            | 20.4 to 26.4 V DC (ripple ratio: within 5 %)   |  |  |  |  |  |
|                             | supply for               |            | 15 mA or lower (when 24 V DC, all points ON)   |  |  |  |  |  |
|                             | output part              | Current    | Not including external load current  |  |  |  |  |  |
|                             | Surge suppres            | sor        | Zener diode  |  |  |  |  |  |
|                             |                          |            | 16 points/common (waterproof connector 2 to 4-wire   |  |  |  |  |  |
| W                           | iring method for         | common     | type: input, waterproof connector 2-wire type: output)   |  |  |  |  |  |
| Number of stations occupied |                          |            | 1 station 32 points assignment (use 16 points)   |  |  |  |  |  |
| _                           | module power             |            | 20.4 to 26.4 V DC (ripple ratio: within 5 %)   |  |  |  |  |  |
|                             | pply                     | Current    | 45 mA or lower (when 24 V DC, all points ON)   |  |  |  |  |  |
|                             |                          | Ourion     | DC type noise voltage 500 Vp-p, noise width 1 µs,  |  |  |  |  |  |
| No                          | ise durability           |            | noise frequency 25 to 60 Hz (noise simulator condition)  |  |  |  |  |  |
| <u></u>                     |                          |            | 500 V AC for 1 minute between all DC external  |  |  |  |  |  |
| W                           | ithstand voltage         |            | terminals and ground   |  |  |  |  |  |
|                             |                          |            |  |  |  |  |  |  |
| Ins                         | sulation resistan        | ce         | $M\Omega$ or higher, measured with a 500 V DC insulation sistance tester between all DC external terminals and |  |  |  |  |  |
|                             |                          |            | ground   |  |  |  |  |  |
| Pn                          | otection of degr         | ee         | IP67   |  |  |  |  |  |
|                             | eight                    |            | 0.40 kg  |  |  |  |  |  |
| Option                      |                          |            | Waterproof cap: A6CAP-WP2  |  |  |  |  |  |
|                             |                          |            | · · · · · · · · · · · · · · · · · · ·  |  |  |  |  |  |

For information about the connection devices necessary to use the main module, see the CC-Link System Small-Type Remote I/O Module User's Manual.







# 2. Name and Setting of Each Area

|          | No. Item D  |   |  |  |   |   |  | Description  |  |   |   |           |
|----------|---|---|--|--|---|---|--|--|--|---|---|-----------|
|          |   | LED name Confirmation details   |  |  |   |   |  |  |  |   |   |           |
|          | Operating<br>status indicator<br>LEDs   | PC  | OWE  |  | ON: Power supply ON OFF: Power supply OFF   |   |  |  |  |   |   |           |
|          |   |   |  |  | Lights up when the output section protection function is                                    |   |  |  |  |   |   |           |
|          |   | PROTECT   |  |  | working (During the protect operation, fuse interruption is                                 |   |  |  |  |   |   |           |
|          |   |   |  |  | searched in the master unit side)   |   |  |  |  |   |   |           |
|          |   | L RUN   |  |  | ON: Normal communication  |   |  |  |  |   |   |           |
|          |   |   |  |  | OFF: Communication shut off (time expiration error)   |   |  |  |  |   |   |           |
|          |   | L ERR.  |  |  | ON: Communication data error  |   |  |  |  |   |   |           |
| 1)       |   |   |  | 1  | Flash at regular intervals:   |   |  |  |  |   |   |           |
| ٠,       |   |   |  |  | Indicates that the station number setting or transmission speed setting switch position was |   |  |  |  |   |   |           |
|          |   |   |  |  | changed while power is ON   |   |  |  |  |   |   |           |
|          |   |   |  | .  | Flash at irregular intervals:   |   |  |  |  |   |   |           |
|          |   |   |  |  | When the setting of the terminal resistor is wrong;   |   |  |  |  |   |   |           |
|          |   |   |  |  | when the cable for the module or CC-Link is   |   |  |  |  |   |   |           |
|          |   |   |  |  | affected by noise   |   |  |  |  |   |   |           |
|          |   |   |  |  | OFF: Normal communication   |   |  |  |  |   |   |           |
|          |   | X0 to X7<br>Y8 to YF  |  |  | ON: Input/Output ON OFF: Input/Output OFF   |   |  |  |  |   |   |           |
|          |   | 10  | וט   | ir j   | OFF   | . IIIput  | Outpu  | UFF  |  |   |   |           |
|          |   |   | 201  | ting vo  | luo   | Set   | ting sw  | itch st  | atus   | Trancr  | nission spe   | od        |
|          | 1   |   | Setting val  |  | iue   | 4   | 2  |  | 1  | Hallsi  | ilission spe  | eu        |
|          |   |   |  | 0  |   | OFF   | 0  | FF   | OFF  | 1   | 56 kbps   |           |
|          |   |   |  | 1  |   | OFF   | 0  | FF   | ON   | 6   | 25 kbps   |           |
| 0,       | Transmission  |   | 2  |  | OFF   | С   | N  | OFF  |  | 2.5 Mbps  | 7   |           |
| 2)       | speed setting<br>switch   |   |  | 3  |   | OFF   | С  | N  | ON   |   | i.0 Mbps  | 7         |
|          |   |   |  | 4  |   | ON  | 0  | FF   | OFF  |   | 10 Mbps   |           |
|          |   | Be sure to set the transmission speed within the above range.                         |  |  |   |   |  |  |  |   |   |           |
|          |   |   |  |  |   |   |  |  |  |   | of the modul  | e to      |
|          |   | se  | t the  | transn   | nissi   | ion spe   | ed. (W   |  |  |   | factory, all  |           |
|          |   |   |  |  |   | OFF.)   |  |  |  |   | -   |           |
| Ī        |   |   |  |  |   |   |  |  |  |   | ation number  |           |
|          |   |   |  |  |   |   |  |  |  |   | ation numbe   | er.       |
|          |   | Always set the station number within the range of 1 to 64. (*1)                       |  |  |   |   |  |  |  |   |   |           |
|          |   | (Example) Set the switches as below when setting the station number                   |  |  |   |   |  |  |  |   |   |           |
| ٥,       | Station number  | to 32: Station Tens place Ones place  |  |  |   |   |  |  |  |   |   |           |
| 3)       | setting switch  |   |  | Station  |   |   | ens pla  |  |  |   |   | _         |
|          |   |   | _  | number   |   | 40  | 20   | 10   | 8  | 4   | 2 1   | _         |
|          |   |   |  | 32   |   | OFF   | ON   | ON   | OFF  | OFF   | ON OF   | _         |
|          |   |   | Remove the communication adapter on the top part of the module to  |  |   |   |  |  |  |   |   |           |
|          |   | set the station number. (When shipped from the factory, all settings are set to OFF.) |  |  |   |   |  |  |  |   |   |           |
|          |   |   |  |  |   |   |  |  | 4h = ON  | Mi  | hhaina Aha  |           |
|          | Terminal resistance setting switch  | The terminal resistor can be turned to the ON setting by using the select switch.     |  |  |   |   |  |  |  |   |   |           |
|          |   | 30  |  |  |   | DID   | uitob?   | itah? Contents   |  | •   | _   |           |
|          |   |   | ווט  | DIP switch1  OFF   |   | DIP switch2 OFF   |  | Contents No terminal resistance  |  |   |   |           |
| 4)       |   |   | ON   |  |   | OF  |  |  |  | 2 resistor ON   |   |           |
|          |   |   |  |  |   | 0   |  |  |  |   |   |           |
|          |   |   | OFF<br>ON  |  |   | 0   |  |  | 130Ω resistor<br>Setting prohib  |   |   |           |
|          |   | /\ A  | /hor   |  | od f-   |   |  | د مال د د  |  |   |   |           |
|          |   | (۷)   | ner  | snippe   | u II  | om tre  | iaclory  | , all Se   | ttings a   | e sei (C  | OFF.)   |           |
|          | Waterproof<br>connector for<br>transmission   |   |  |  | Silk  |   |  |  | Con  | tents   |   |           |
|          |   |   |  |  |   |   | Connector for connecting the   |  |  |   |   |           |
|          |   |   | а  | a LINK   |   | IN  | transm   | nission  | line fror  | n the IN side (master   |   |           |
|          |   |   |  |  |   | station sid   |  |  | side). (Male 4 pins)   |   |   |           |
| 5)       |   |   |  |  |   |   |  |  |  | pins)   | •   |           |
|          | transmission  |   |  |  |   |   | Conne  | ctor fo  | r conne  | pins)   | ·<br>e  | 1         |
|          |   |   |  |  |   |   | Conne  | ctor fo  | r connection   | pins)<br>cting the<br>n the O   | e<br>UT side.   | 1         |
|          | transmission<br>line *2   |   | b  | LINK   | С   | OUT   | Conne<br>transm<br>Be sur  | ctor fo<br>nission<br>e to at  | r connections from the tach the  | pins)<br>cting the<br>n the O<br>waterp   | e<br>UT side.<br>roof cap   |           |
|          |   |   | b  | LINK   | С   | DUT   | Conne<br>transm<br>Be sur<br>when i  | ector fon<br>hission<br>his to at<br>hot in u  | r connectine from tach the ise. (Fei   | pins)<br>cting the<br>n the O<br>waterp<br>nale 5   | e<br>UT side.<br>Proof cap<br>pins)   |           |
|          |   |   | b  | LINK   | C   | DUT   | Conne<br>transm<br>Be sur<br>when i  | ector fon<br>hission<br>his to at<br>hot in u  | r connectine from tach the ise. (Fei   | pins)<br>cting the<br>n the O<br>waterp<br>nale 5   | e<br>UT side.<br>roof cap   | 1)        |
|          |   |   | b  | LINK   |   | -   | Conne<br>transm<br>Be sur<br>when i  | ector fon<br>hission<br>his to at<br>hot in u  | r connection connection tach the lack t | pins)<br>cting the<br>n the O<br>waterp<br>nale 5 p<br>nge: 29  | e<br>UT side.<br>Proof cap<br>pins)   | 1)        |
|          | line *2   |   | b  | LINK   | Silk  | -   | Conne<br>transm<br>Be sur<br>when i<br>(Tighte   | ector fo<br>nission<br>re to at<br>not in u<br>ening to  | r connection from tach the lise. (Fei orque ra   | pins) cting the n the O waterp male 5   nge: 29   | e<br>UT side.<br>roof cap<br>pins)<br>to 34 N.cm  | 1)        |
| 6        | line *2  Waterproof   |   |  |  | Silk  |   | Conne<br>transm<br>Be sur<br>when i<br>(Tighte<br>Conne  | ector for<br>nission<br>re to at<br>not in usening to<br>ector for   | r connection from tach the see. (Fer proper range range)   | pins) cting the n the O waterp male 5   nge: 29 tents ring pov  | e<br>UT side.<br>Proof cap<br>pins)   | 1)        |
| 6)       | line *2 Waterproof connector for  |   | b  |  | Silk  | -   | Conne<br>transm<br>Be sur<br>when i<br>(Tighte<br>Conne<br>modul   | ector for<br>nission<br>te to at<br>not in u<br>ening to<br>ector for<br>e. (Ma  | r connection from the line fro | pins) eting the n the O waterp male 5   nge: 29 tents ing pov   | UT side.<br>roof cap<br>pins)<br>to 34 N.cm   |           |
| 6)       | line *2  Waterproof   |   |  | UNIT   | Silk  | WER   | Conne<br>transm<br>Be sur<br>when I<br>(Tighte<br>Conne<br>modul   | ector for<br>nission<br>e to at<br>not in usening to<br>ector for<br>e. (Ma<br>ector for   | r connection from tach the lise. (Fer produce range)  Contraction from the contraction from t | pins) eting the n the O waterp male 5   nge: 29 tents ing pov   | e<br>UT side.<br>roof cap<br>pins)<br>to 34 N.cm  |           |
| 6)       | line *2 Waterproof connector for  |   | С  | UNIT   | Silk  | WER   | Conne<br>transm<br>Be sur<br>when i<br>(Tighte<br>Conne<br>modul   | ector for<br>nission<br>e to at<br>not in usening to<br>ector for<br>e. (Ma<br>ector for   | r connection from tach the lise. (Fer produce range)  Contraction from the contraction from t | pins) eting the n the O waterp male 5   nge: 29 tents ing pov   | UT side.<br>roof cap<br>pins)<br>to 34 N.cm   |           |
| 6)       | Waterproof<br>connector for<br>power line *2  |   | c  | UNIT   | Silk<br>PO  | WER   | Conne<br>transm<br>Be sur<br>when I<br>(Tighte<br>Conne<br>modul<br>Conne<br>etc. (M   | ector for all the control of the con | r connection from the conn | pins) cting the n the O waterp male 5 nge: 29 tents ring pove s)  | UT side. rroof cap pins) to 34 N.cm ver to the  |           |
| ,        | Waterproof connector for power line *2 Waterproof   |   | c<br>d   | UNIT   | Silk  | WER   | Conne<br>transm<br>Be sur<br>when I<br>(Tighte<br>Conne<br>modul<br>Conne<br>etc. (M   | ector for all the control of the con | r conner<br>line fror<br>tach the<br>ise. (Fel<br>prque ra<br>Con<br>r supply<br>le 5 pins<br>r supply<br>pins)  | pins) cting the n the O waterp male 5   nge: 29 tents ring pov s) ring pov  | e UT side. oroof cap pins) o to 34 N.cm ever to the ever to a load  | zi,       |
| 6)       | Waterproof connector for power line *2  Waterproof connector for connector for  | Be  | c<br>d<br>aterp  | UNIT   | Silk<br>PO<br>AUX<br>onne   | WER  C.  ector fo waterp  | Conne<br>transm<br>Be sur<br>when i<br>(Tighte<br>Conne<br>modul<br>Conne<br>etc. (M   | ector for a control of the control o | r connection from the conn | pins) cting the n the O waterp male 5   nge: 29 tents ring pov s) ing pov   | UT side. rroof cap pins) to 34 N.cm ver to the  | zi,       |
| ,        | Waterproof<br>connector for<br>power line *2<br>Waterproof<br>connector for<br>input  | Be  | c<br>d<br>aterp  | UNIT   | Silk<br>PO<br>AUX<br>onne   | WER  C.  ector fo waterp  | Conne<br>transm<br>Be sur<br>when i<br>(Tighte<br>Conne<br>modul<br>Conne<br>etc. (M   | ector for a control of the control o | r conner<br>line fror<br>tach the<br>ise. (Fel<br>prque ra<br>Con<br>r supply<br>le 5 pins<br>r supply<br>pins)  | pins) cting the n the O waterp male 5   nge: 29 tents ring pov s) ing pov   | e UT side. oroof cap pins) o to 34 N.cm ever to the ever to a load  | zi,       |
| 7)       | Waterproof connector for power line *2  Waterproof connector for input connector *2   | Be<br>no  | c<br>d<br>aterp  | UNIT<br>proof co<br>e to att<br>use. (Ti                       | Silk<br>PO<br>AUX<br>onne<br>ach  | WER  cector for waterpening to                                      | Conne<br>transm<br>Be sur<br>when I<br>(Tighte<br>Conne<br>modul<br>Conne<br>etc. (Mar<br>r conne<br>r conne<br>rque ra  | ector for a to a   | r conner<br>line fror<br>tach the<br>ise. (Fel<br>prque ra<br>Con<br>or supply<br>le 5 pins<br>or supply<br>pins)<br>//O signa<br>AP-WP/<br>9 to 34  | pins) cting them the O waterpmale 5 page: 29 ttents ttents ing pov s) ing pov al. (Fem 2 (sold: N.cm)   | e UT side. roof cap pins) to 34 N.cm  ver to the ver to a load alle 5 pins) separately)                                   | d,<br>whe |
| ,        | Waterproof connector for power line *2  Waterproof connector for input connector or 2  FG metal fitting   | Be<br>no<br>Fo  | c d aterpersure tin unit more more   | UNIT<br>proof coe to attuse. (Ti                               | Silk<br>PO<br>AUX   | ector for waterpening to  | Conne<br>transm<br>Be sur<br>when I<br>(Tighter<br>Conne<br>modul<br>Conne<br>etc. (M  | ector for a to a   | r connection from the connection of the connecti | pins) cting then the O waterp male 5   nge: 29 tents ting pov s) ing pov al. (Fem 2 (sold: N.cm) ge: 78   | e UT side. roof cap pins) t to 34 N.cm  ver to the ver to a load separately) to 118 N.cm                                  | d, when   |
| 7)       | Waterproof connector for power line *2  Waterproof connector for input connection *2  FG metal fitting Communication                              | Be<br>no<br>Fo  | c d aterpersure to the control of th | UNIT  proof core to attuse. (Ti  dule F  replaci               | Silk<br>PO<br>AUX<br>onne<br>ach<br>ighte   | ector for waterpening to erminal he mair                            | Conne<br>transm<br>Be sur<br>when I<br>(Tighter<br>Conne<br>modul<br>Conne<br>etc. (Mar<br>r conne<br>roof ca<br>rque ra<br>(tighter<br>body                       | ector for at the cector for e. (Ma ector for falle 5 ection I p A6C, ange: 2 ening to online   | r connection from the connection of the connecti | pins) cting then the O waterp male 5   nge: 29 tents ing pov ing pov al. (Fem 2 (sold : N.cm) ge: 78 ging sw  | e UT side. roof cap pins) to 34 N.cm ver to the ver to a load separately) to 118 N.cm itch setting,                       | d, when   |
| 7)       | Waterproof connector for power line *2  Waterproof connector for input connection *2  FG metal fitting Communication adapter fixing               | Be<br>no<br>Fo<br>W<br>att  | c d atterpression of the control of  | proof core to attuse. (Ti odule Freplaci (remove               | Silk<br>PO<br>AUX<br>onne<br>ach<br>ighte   | WER  cector for waterpening to erminal the mairie comm              | Conne<br>Be sur<br>When I<br>(Tighte<br>Conne<br>modul<br>Conne<br>etc. (Marconne<br>roof carque ra<br>(tighter<br>n body<br>nunicati                              | ector for a to a   | r connection from the connection of the connecti | pins) cting then the O waterp male 5   nge: 29 tents ing pov ing pov al. (Fem 2 (sold : N.cm) ge: 78 ging sw  | e UT side. roof cap pins) to 34 N.cm ver to the ver to a load separately) to 118 N.cm itch setting,                       | d, when   |
| 7)       | Waterproof connector for power line *2  Waterproof connector for input connection *2  FG metal fitting Communication adapter fixing screw         | Fo<br>W<br>att  | c d aterije surr mo  | proof core to attuse. (Ti odule F replaci fremovening to       | Silk<br>PO<br>AUX<br>onne<br>ach<br>ighte<br>G te   | ector for<br>waterpening to<br>erminal<br>he mair<br>e commer range | Conne<br>Be sur<br>When I<br>(Tighte<br>Conne<br>modul<br>Conne<br>etc. (N<br>r conne<br>roof ca<br>rque ra<br>(tighter<br>n body<br>nunicati<br>: 42 to           | ector for a to at a to | connection of co | pins) cting then the O waterp male 5   nge: 29  tents ing pov sing pov sing pov sing pov ge: 78   ging sw h this se                                     | e UT side. roof cap pins) to 34 N.cm ver to the ver to a load ale 5 pins) separately) to 118 N.cm titch setting, crew.    | d, when   |
| 7) 8) 9) | Waterproof connector for power line *2  Waterproof connector for input connection *2  FG metal fitting Communication adapter fixing screw  Module | Fo<br>W<br>att<br>(Ti   | c d aterper surface su | proof coe to attuse. (Ti odule Freplaci fremovening to hole fo | Silk Silk Silk Silk Silk Silk Silk Silk   | ector for waterpening to erminal he mairre comme errange odule a    | Conne<br>transm<br>Be sur<br>when I<br>(Tighte<br>Conne<br>modul<br>Conne<br>etc. (N<br>r conne<br>roof ca<br>rque ra<br>(tighter<br>n body<br>nunicati<br>: 42 to | ector for insistence to at a control of the control | r connection from the control of the | pins)  cting then the O waterpp male 5   nge: 29  tents tents tents tents (sing power)  ing power all. (Ferm 2 (sold sold sold sold sold sold sold sold | e UT side. roof cap pins) I to 34 N.cm ver to the ver to a load lade 5 pins) separately) to 118 N.cm titch setting, crew. | when      |
| 7) 8) 9) | Waterproof connector for power line *2  Waterproof connector for input connection *2  FG metal fitting Communication adapter fixing screw         | Fo<br>W<br>att<br>(Ti   | c d aterper surface su | proof coe to attuse. (Ti odule Freplaci fremovening to hole fo | Silk Silk Silk Silk Silk Silk Silk Silk   | ector for waterpening to erminal he mairre comme errange odule a    | Conne<br>transm<br>Be sur<br>when I<br>(Tighte<br>Conne<br>modul<br>Conne<br>etc. (N<br>r conne<br>roof ca<br>rque ra<br>(tighter<br>n body<br>nunicati<br>: 42 to | ector for insistence to at a control of the control | r connection from the control of the | pins)  cting then the O waterpp male 5   nge: 29  tents tents tents tents (sing power)  ing power all. (Ferm 2 (sold sold sold sold sold sold sold sold | e UT side. roof cap pins) to 34 N.cm ver to the ver to a load ale 5 pins) separately) to 118 N.cm titch setting, crew.    | when      |

<sup>\*2:</sup> Waterproof connector (based on IEC947-5-2, M12 type)