

# GT2505/GT14 Handy GOT External Cable

## User's Manual

Manual Number	JY997D49501D
Date	April 2018

This manual describes the dimensions, and mounting of the product. Before use, read this manual and manuals of relevant products fully to acquire proficiency in handling and operating the product. Make sure to learn all the product information, safety information, and precautions.

And, 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.



Registration  
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Effective April 2018  
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### Safety Precaution (Read these precautions before using.)


Before using this product, please read this manual and the relevant manuals introduced in this manual carefully and pay full attention to safety to handle the product correctly.


The precautions given in this manual are concerned with this product. In this manual, the safety precautions are ranked as "WARNING" and "CAUTION".

 <b>WARNING</b>	Indicates that incorrect handling may cause hazardous conditions, resulting in death or severe injury.
 <b>CAUTION</b>	Indicates that incorrect handling may cause hazardous conditions, resulting in medium or slight personal injury or physical damage.


Depending on circumstances, procedures indicated by "CAUTION" may also be linked to serious results.


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


<b>DESIGN PRECAUTIONS</b>  <b>WARNING</b>
<ul style="list-style-type: none"> <li>Some failures of the GOT or cable may keep the outputs on or off. An external monitoring circuit should be provided to check for output signals which may lead to a serious accident. Not doing so can cause an accident due to false output or malfunction.</li> </ul>


<b>DESIGN PRECAUTIONS</b>  <b>CAUTION</b>
<ul style="list-style-type: none"> <li>Do not bundle the control and communication cables with main-circuit, power or other wiring. Run the above cables separately from such wiring and keep them a minimum of 100mm (3.94in.) apart. Not doing so noise can cause a malfunction.</li> </ul>

<b>MOUNTING PRECAUTIONS</b>  <b>WARNING</b>
<ul style="list-style-type: none"> <li>Make sure to turn OFF the power switch in the Connector Conversion Box before connecting or disconnecting an external cable. Failure to do so may cause unit failure or malfunctions.</li> </ul>

<b>WIRING PRECAUTIONS</b>  <b>WARNING</b>
<ul style="list-style-type: none"> <li>Be sure to shut off all phases of the external power supply used by the system before wiring. Failure to do so may result in an electric shock, product damage or malfunctions.</li> <li>Please make sure to ground FG terminal of the Connector Conversion Box power supply section by applying 100 or less which is used exclusively for the GOT. Not doing so may cause an electric shock or malfunction.</li> </ul>

<b>WIRING PRECAUTIONS</b>  <b>WARNING</b>
<ul style="list-style-type: none"> <li>Correctly wire the Connector Conversion Box power supply section after confirming the rated voltage and terminal arrangement of the GOT. Not doing so can cause a fire or failure.</li> <li>Exercise care to avoid foreign matter such as chips and wire offcuts entering the GOT. Not doing so can cause a fire, failure or malfunction.</li> </ul>

<b>WIRING PRECAUTIONS</b>  <b>CAUTION</b>
<ul style="list-style-type: none"> <li>Plug the communication cable into the connector of the connected unit and tighten the mounting and terminal screws in the specified torque range. Undertightening can cause a short circuit or malfunction. Overtightening can cause a short circuit or malfunction due to the damage of the screws or unit.</li> </ul>

<b>STARTUP/MAINTENANCE PRECAUTIONS</b>  <b>CAUTION</b>
<ul style="list-style-type: none"> <li>The cables connected to the unit must be run in ducts or clamped. Not doing so can cause the unit or cable to be damaged due to the dangling, motion or accidental pulling of the cables or can cause a malfunction due to a cable connection fault.</li> <li>When unplugging the cable connected to the unit, do not hold and pull the cable portion. Doing so can cause the unit or cable to be damaged or can cause a malfunction due to a cable connection fault.</li> </ul>

<b>DISPOSAL PRECAUTIONS</b>  <b>CAUTION</b>
<ul style="list-style-type: none"> <li>When disposing of the product, handle it as industrial waste.</li> </ul>

### Certification of UL, cUL standards

UL, cUL Standards are recognized in use by the following combination.

- GT2505HS-VTBD
- GT14HANDY (GT1455HS-QTBDE series, GT1450HS-QMBDE series)\*1
- GT16H-CNB-42S\*2
- External cable (GT14H-C30-42P, GT14H-C60-42P, GT14H-C100-42P)\*3

Cable must be properly installed and routed to ensure protection of the Cable.

\*1 Hardware version B or later  
\*2 Hardware version D or later  
\*3 Version B or later

### General notes on power supply

This equipment must be supplied by a UL Listed or Recognized 24V DC (+10%-15%) rated power supply and UL Listed or Recognized fuse rated not higher than 4A, or a UL Listed Class 2 power supply.

### Related Manuals

When using the external cable, prepare the following manual as well. As GT14 Handy GOT User's Manual is sold separately, inquire at our local distributor for it.

Manual name	Manual Number (Model Code)	Contents
GOT2000 Series User's Manual (Hardware)	SH-081194ENG (1D7MJ5)	Describes the GOT hardware relevant content such as part names, external dimensions, mounting, power supply wiring, specifications, and introduction to option devices
GOT2000 Series Handy GOT Connection Manual For GT Works3 Version1	SH-081867ENG (1D7MS9)	Describes system configurations of the connection method applicable to GOT2000 Series Handy GOT and cable creation method
GT14 Handy GOT User's Manual (Hardware/Utility, Connection)1/2, 2/2	JY997D50201 JY997D50202 (09R825)	Describes the Handy GOT hardware-relevant content such as part names, external dimensions, mounting, power supply wiring, specifications, and introduction to option devices.

○: Indispensable manual  
For the manuals relevant to GOT2000/GOT1000, refer to the PDF manuals stored in the screen creation software used. For details about a PLC to be connected, refer to the manuals of PLCs respectively.

**Referenced Standard: GB/T15969.2 (Requirement of Chinese standardized law)**

### Bundled Items

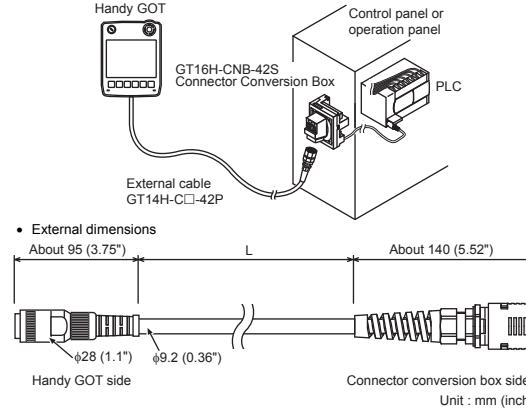
Bundled item	Quantity
GT14H-C□-42P cable (□ : 30(3m), 60(6m), 100(10m))	1
GT2505/GT14 Handy GOT External Cable User's Manual (This manual)	1

### Applicable GOTs

Abbreviations	Model name
GOT 2000	GT2505HS-VTBD
GOT 1000	GT14 Handy GOT GT145□HS-Q□BDE

### 1. Overview

This cable connects Handy GOT and the Connector Conversion Box.



Value of □	Length L mm (inch)
30	3000 (118.1")
60	6000 (236.2")
100	10000 (393.7")

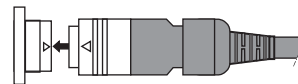
Unit : mm (inch)

### 2. Installing and removing of external cable

#### 2.1 Handy GOT side

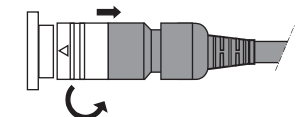
##### 2.1.1 Installation procedure of external cable

- Check that the 24V DC power to the external cable is OFF.
- Insert the connector adjusting the triangle marks of the main unit side connector and cable side connector. (The connectors are locked after the lever is inserted.)



##### 2.1.2 Removal procedure

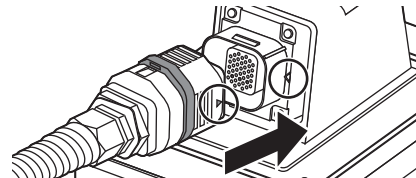
- Check that the 24V DC power to the external cable is OFF.
- Pull out the cable while turning the triangle mark side of the cable side connector to the left.



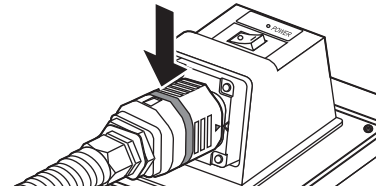
#### 2.2 Connector Conversion Box, GT16H-CNB-42S side

##### 2.2.1 Installation procedure of external cable

- Check that the 24V DC power to the external cable is OFF.
- Insert the connector adjusting the triangle marks of the main unit side connector and cable side connector.

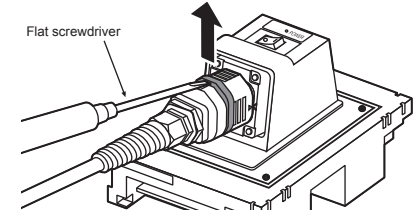


- After inserting the connector, push the lock lever. The connectors are locked after the lever is pushed into.

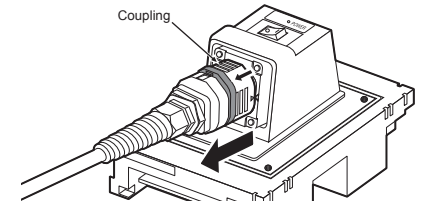


##### 2.2.2 Removal procedure

- Check that the 24V DC power to the external cable is OFF.
- Pull up the lock lever with inserting a flat-blade screwdriver into the release hole of the lock lever.



- The external cable can be removed by pulling the whole plug connector while shifting the coupling of the plug connector to the cable side.



This manual confers no industrial property rights or any rights of any other kind, nor does it confer any patent licenses. Mitsubishi Electric Corporation cannot be held responsible for any problems involving industrial property rights which may occur as a result of using the contents noted in this manual.

### Warranty

Exclusion of loss in opportunity and secondary loss from warranty liability  
Regardless of the gratis warranty term, Mitsubishi shall not be liable for compensation to:  

- Damages caused by any cause found not to be the responsibility of Mitsubishi.
- Loss in opportunity, lost profits incurred to the user by Failures of Mitsubishi products.
- Special damages and secondary damages whether foreseeable or not, compensation for accidents, and compensation for damages to products other than Mitsubishi products.
- Replacement by the user, maintenance of on-site equipment, start-up test run and other tasks.

### For safe use

- This product has been manufactured as a general-purpose part for general industries, and has not been designed or manufactured to be incorporated in a device or system used in purposes related to human life.
- Before using the product for special purposes such as nuclear power, electric power, aerospace, medicine or passenger movement vehicles, consult with Mitsubishi Electric.
- This product has been manufactured under strict quality control. However when installing the product where major accidents or losses could occur if the product fails, install appropriate backup or failsafe functions in the system.