

## FCC information

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

**CAUTION:** Changes or modifications to this device, not expressly approved by Icom Inc., could void your authority to operate this device under FCC regulations.

### Supplier's Declaration of Conformity

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

#### Responsible Party

Company Name: Icom America Inc.  
Address: 12421 Willows Road NE,  
Kirkland, WA 98034

#### U.S. Contact Information

800-USA-ICOM (800-872-4266)  
Monday – Friday 7 AM to 5 PM PST

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Microsoft and Windows are trademarks of the Microsoft group of companies.

All other products or brands are registered trademarks or trademarks of their respective holders.

## Disposal



The crossed-out wheeled-bin symbol on your product, literature, or packaging reminds you that in the European Union, all electrical and electronic products, batteries, and accumulators (rechargeable batteries) must be taken to designated collection locations at the end of their working life. Do not dispose of these products as unsorted municipal waste. Dispose of them according to the laws in your area.

## About CE

Versions of the OPC-478UC-1, OPC-966U-1, OPC-2344-1, OPC-2338-1, OPC-2363-1, and OPC-2357-1 which have the "CE" symbol on the product, comply with the essential requirements of the 2014/30/EU EMC Directive and 2011/65/EU RoHS Directive.

### INFORMATION

You can find information regarding product-related legislation in the European region on the Icom portal site.

<https://portal.icomjapan.com/>



### Below statement is for UKCA purpose only

United Kingdom Authorised Importer: Icom (UK) Ltd.  
Address: Blacksole House, Altira Park, Herne Bay,  
Kent, CT6 6GZ, U.K.

To obtain the UKCA Declaration of Conformity, please contact Icom UK Limited by email at [info@icomuk.co.uk](mailto:info@icomuk.co.uk) or alternatively call + 44(0) 1227 741741.

# ICOM

## INSTRUCTIONS

### PROGRAMMING CABLE

**OPC-478UC-1**

**OPC-966U-1**

**OPC-2344-1**

**OPC-2338-1**

**OPC-2363-1**

### DATA CABLE

**OPC-2357-1**

Thank you for choosing this Icom product.  
**READ ALL INSTRUCTIONS** carefully and completely before using this product.

## Important

**SAVE THESE INSTRUCTIONS** — These instructions contain important safety and operating details for the cable.

The programming cable is designed to connect an Icom transceiver or receiver and a PC for data programming using an Icom programming software. The data cable is designed to connect an Icom transceiver (Rekeying Management transceiver) and a PC for doing the OTAR (Over-The-Air-Rekeying) operation.

## Explicit definitions

WORD	DEFINITION
<b>⚠ WARNING!</b>	Personal injury, fire hazard or electric shock may occur.
<b>CAUTION</b>	Equipment damage may occur.
<b>NOTE</b>	Recommended for optimum use. No risk of personal injury, fire or electric shock.

Icom is not responsible for the destruction, damage to, or performance of any Icom or non-Icom equipment, if the malfunction is because of:

- Force majeure, including, but not limited to, fires, earthquakes, storms, floods, lightning, other natural disasters, disturbances, riots, war, or radioactive contamination.
- The use of Icom products with any equipment that is not manufactured or approved by Icom.

## Precautions

- **⚠ WARNING! NEVER** use or touch the cable with wet hands. This could cause an electric shock.
- **CAUTION: NEVER** expose the cables to rain, snow, or any liquids.
- **NEVER** let metal, wire, or other objects touch any internal part of the connectors.
- **NEVER** place any heavy object on the cable, or pinch it.
- **DO NOT** use harsh solvents such as benzine or alcohol when cleaning, as they will damage the cables.

## System requirements

(As of March 2026)

- Operating System (OS)  
Microsoft Windows 11 (64 bit)  
① Except for Windows on ARM.
  - Others  
A USB 1.1 or 2.0 port
- ① An Internet connection is required for the USB driver installation.  
① These instructions are based on using Windows 11.  
① The displays, indications, or operations may differ slightly, depending on your system settings, OS version, and update level.

## Operating notes

- **DO NOT** extend the USB cable. Using a USB cable other than the supplied may cause an error.
- Ensure that your PC supports USB port operation by confirming the Universal Serial Bus controller is in the PC's Device Manager.
- Connect the cable directly to a PC's USB port or to a self-powered USB hub.
- Approximately 20 mA of current is required. Insufficient current capacity of the USB port can cause unstable programming operation and a data error.

**NOTE:** The USB drivers for earlier versions of programming cables or the data cable that do not have a "-1" in their model name (for example, OPC-478UC) are **NOT** compatible with USB drivers with a "-1" in their model name (for example, OPC-478UC-1.)

## Specifications

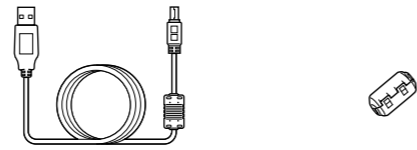
- ① All stated specifications are subject to change without notice or obligation.
- Usable temperature range:  
-10°C to +60°C (+14°F to +140°F)
- Cable length (approximate):
 

OPC-478UC-1	520 mm (20.5 inches)
OPC-2363-1	300 mm (11.8 inches)
Others	250 mm (9.8 inches)
OPC-1637 (USB cable)	1500 mm (4.9 feet)

- Weight (approximate):
 

OPC-478UC-1	37 g (1.3 oz)
OPC-966U-1	53 g (1.9 oz)
OPC-2344-1	33 g (1.2 oz)
OPC-2338-1	57 g (2.0 oz)
OPC-2357-1	65 g (2.3 oz)
OPC-2363-1	47 g (1.7 oz)
OPC-1637 (USB cable)	49 g (1.7 oz)

## Supplied accessories

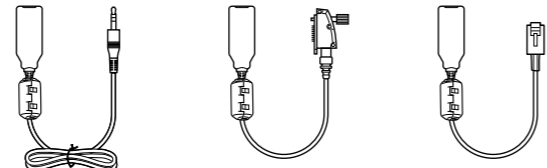


**USB cable (OPC-1637)** (Type-A to Mini-B)     **Ferrite EMI filter**

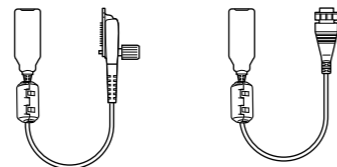
## Supplied items

① One of the items shown below is supplied.

### Programming cable

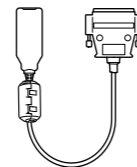


**OPC-478UC-1**     **OPC-966U-1**     **OPC-2344-1**



**OPC-2338-1**     **OPC-2363-1**

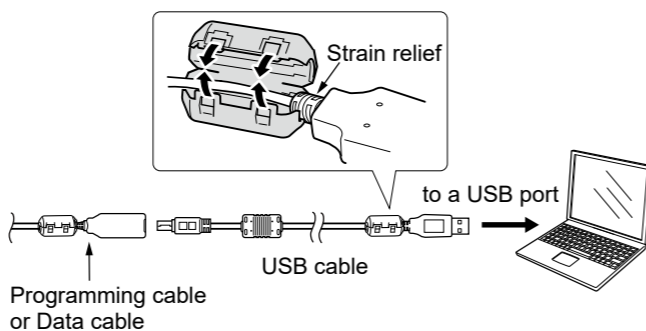
### Data cable



**OPC-2357-1**

## Connecting the cable and USB driver installation

1. Connect the PC to the Internet to download the USB driver.
  - ① Sign in as the administrator.
2. Connect the programming cable or data cable to the OPC-1637 USB cable, and then connect the USB cable to a PC USB port, as illustrated below.
  - The PC automatically installs the USB driver and starts the USB-to-Serial COM Port installation.
  - ① Attach the Ferrite EMI filter to the strain relief of the OPC-1637 USB cable.



## COM port confirmation

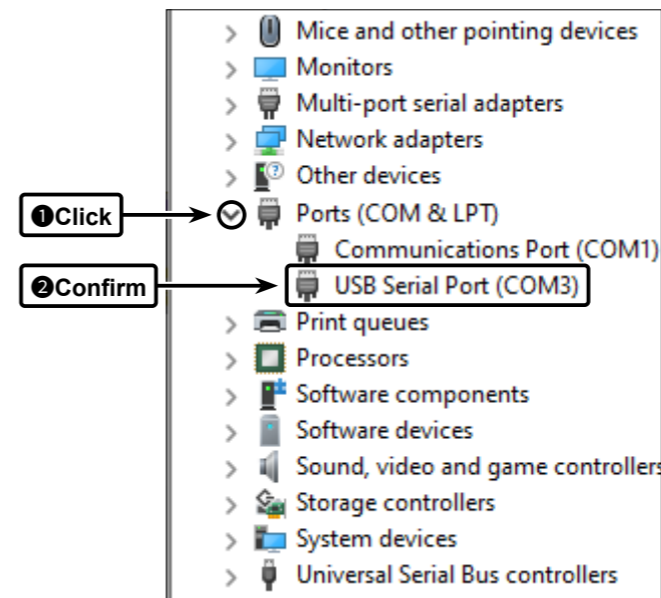
After the driver installation has completed, confirm the driver availability and the port number.

The COM port number is required to set on the programming software.

- ① Sign in as the administrator.
- ① Confirm no other applications are running.

1. Right-Click on [Start], and then click [Device Manager].
  - "Device Manager" is displayed.
2. Click the ">" next to "Ports (COM&LPT)." Confirm "USB Serial Port (COM\*)" is displayed.
  - ① In this example, the COM port number is "3."

① Select the COM port number in the programming software.



### NOTE:

- If the COM port is not displayed, double-click [Other devices].
- If the warning symbol "⚠" with "FT232R USB UART" is displayed, the driver may not be properly installed. In such case, manually install the USB driver. Refer to the right column for details.

## If a communication error occurs

Follow the steps below to manually update the USB driver.

1. Go to the Icom website. (<https://www.icomjapan.com/support/>) In the "Firmware / Software"\* menu, enter the model name and click the "Search" button to download the USB driver.
  - \* The menu name may be changed without notice.
2. Extract the file downloaded from the Icom website.
3. Right-click "USB Serial Port (COM\*)" displayed under "Ports (COM&LPT)" on the "Device Manager" screen, and then click [Update driver].
4. "How do you want to search for drivers?" is displayed. Click [Browse my computer for drivers].
5. "Browse for drivers on your computer" is displayed. Click [Let me pick from a list of available drivers on my computer].
6. "Select the device driver you want to install for this hardware." is displayed. Click [Have Disk...].
7. "Install From Disk" is displayed. Click [Browse...].
8. Select the "ftdibus.inf" in the extracted file, click [Open], and then click [OK].
9. Click [Next] to start the update.
10. After the update has completed, "Windows has successfully updated your drivers" is displayed.

## Manual installation of USB driver

If the warning symbol "⚠" is displayed on the "Device Manager" screen, follow the steps below to manually install the USB driver.

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2. Extract the file.
3. Right-click [FT232R USB UART] displayed under "Other devices" on the "Device Manager" screen, and then click [Update driver].
4. "How do you want to search for drivers?" is displayed. Click [Browse my computer for drivers].
5. "Browse for drivers on your computer" is displayed. Click [Browse...].
6. Select the extracted file, and then click [OK].
7. Click [Next] to start the installation.
8. After the installation has completed, "Windows has successfully updated your drivers" is displayed. Click [Close].
9. Again, right-click [USB Serial Port], and then click [Update driver].
10. Repeat steps 4 to 8, to install the "USB Serial Port."
  - ① Confirm the driver availability and the port number on the "Device Manager" screen.

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## About CE



Versions of the OPC-478UD which have the "CE" symbol on the product, comply with the essential requirements of the 2014/30/EU EMC Directive and 2011/65/EU RoHS Directive.

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# ICOM

## INSTRUCTIONS

### PROGRAMMING CABLE

# OPC-478UD

## Important

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## Explicit definitions

WORD	DEFINITION
<b>⚠ WARNING!</b>	Personal injury, fire hazard or electric shock may occur.
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- The use of Icom products with any equipment that is not manufactured or approved by Icom.

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## Precautions

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- **CAUTION: NEVER** expose the cables to rain, snow, or any liquids.
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- **NEVER** place any heavy object on the cable, or pinch it.
- **DO NOT** use harsh solvents such as benzine or alcohol when cleaning, as they will damage the cables.

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(As of March 2026)

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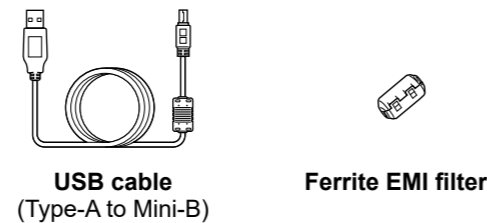
## Operating notes

- **DO NOT** extend the USB cable. Using a USB cable other than the supplied may cause an error.
- Ensure that your PC supports USB port operation by confirming the Universal Serial Bus controller is in the PC's Device Manager.
- Connect the cable directly to a PC's USB port or to a self-powered USB hub.
- Approximately 20 mA of current is required. Insufficient current capacity of the USB port can cause unstable programming operation and a data error.

## Specifications

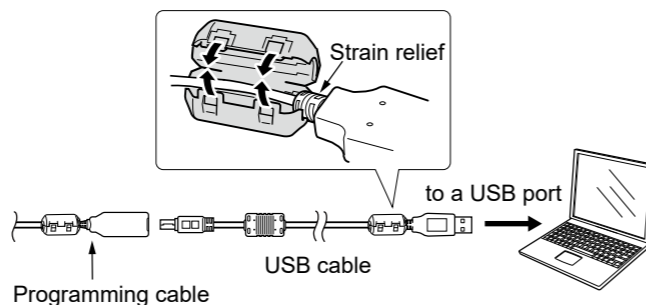
- ① All stated specifications are subject to change without notice or obligation.
- Usable temperature range:  
-10°C to +60°C (+14°F to +140°F)
- Cable length (approximate):  
OPC-478UD 52 cm (20.5 inches)  
USB cable 1.5 m (4.9 feet)
- Weight (approximate):  
OPC-478UD 37 g (1.3 oz)  
USB cable 49 g (1.7 oz)

## Supplied accessories



## Connecting the cable and USB driver installation

1. Connect the PC to the Internet to download the USB driver.  
① Sign in as the administrator.
2. Connect the programming cable to the USB cable, and then connect the USB cable to a PC USB port, as illustrated below.
  - The PC automatically installs the USB driver and starts the USB-to-Serial COM Port installation.
  - ① Attach the Ferrite EMI filter to the strain relief of the USB cable.

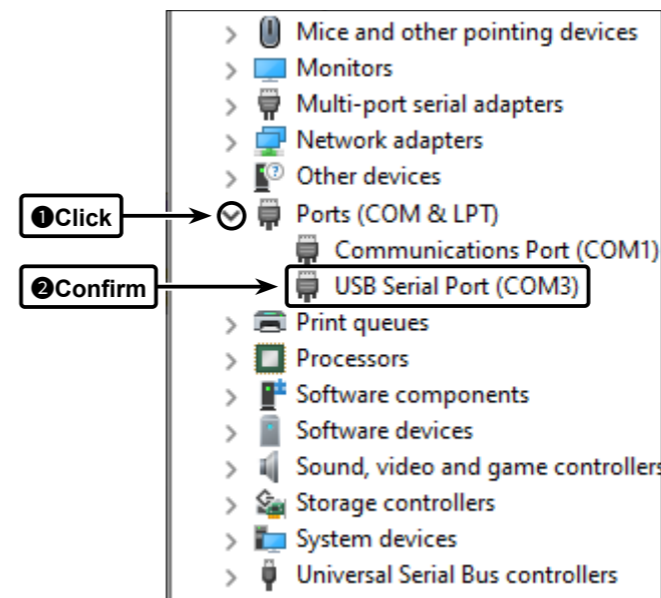


## COM port confirmation

After the driver installation has completed, confirm the driver availability and the port number. The COM port number is required to set on the programming software.  
① Sign in as the administrator.  
① Confirm no other applications are running.

1. Right-Click on [Start], and then click [Device Manager].
  - "Device Manager" is displayed.
2. Click the ">" next to "Ports (COM&LPT)." Confirm "USB Serial Port (COM\*)" is displayed.  
① In this example, the COM port number is "3."

① Select the COM port number in the programming software.



### NOTE:

- If the COM port is not displayed, double-click [Other devices].
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5. "Browse for drivers on your computer" is displayed. Click [Let me pick from a list of available drivers on my computer].
6. "Select the device driver you want to install for this hardware." is displayed. Click [Have Disk...].
7. "Install From Disk" is displayed. Click [Browse...].
8. Select the "ftdibus.inf" in the extracted file, click [Open], and then click [OK].
9. Click [Next] to start the update.
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## Manual installation of USB driver

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8. After the installation has completed, "Windows has successfully updated your drivers" is displayed. Click [Close].
9. Again, right-click [USB Serial Port], and then click [Update driver].
10. Repeat steps 4 to 8, to install the "USB Serial Port."  
① Confirm the driver availability and the port number on the "Device Manager" screen.