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> MECCANIXITY FFC FPC Flat Flexible Cable Instruction Manual

**MECCANIXITY mea220104ee1012**

# MECCANIXITY FFC FPC Flat Flexible Cable Instruction Manual

Model: mea220104ee1012

## 1. PRODUCT OVERVIEW

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The MECCANIXITY FFC (Flexible Flat Cable) and FPC (Flexible Printed Circuit) cables are designed for high-density electronic applications. These cables provide a compact and reliable connection solution for various electronic devices.

Common applications include laptops, DVD players, LCD monitors, audio systems, 3D printers, cameras, and other DIY electronic projects where space-saving and flexible interconnections are crucial.

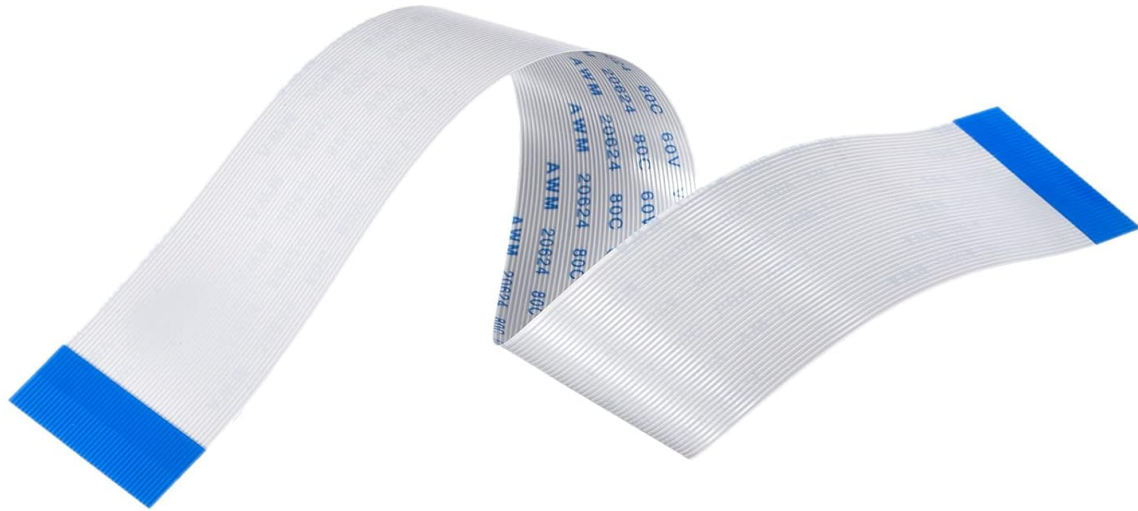


Figure 1: General view of the MECCANIXITY FFC FPC Flat Flexible Cable.

## 2. PRODUCT FEATURES

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- **High Density Connectivity:** Ideal for applications requiring numerous connections in a confined space.
- **Flexible Design:** The ultra-thin flat ribbon cable construction allows for significant space-saving and flexible routing within electronic enclosures.
- **Reinforced Stiffeners:** Both ends of the cable are equipped with stiffeners to enhance stability and strength during connection and use.
- **A Type Configuration:** Features pins on the same side at both ends, ensuring consistent orientation for specific connection requirements.



"A Type"--- the side of the 2 end pin is on the same side.

Figure 2: Illustration of the 'A Type' FFC/FPC cable, showing pins on the same side at both ends.

### 3. SPECIFICATIONS

<b>Brand</b>	MECCANIXITY
<b>Model Number</b>	mea220104ee1012
<b>Cable Type</b>	FFC/FPC Flat Flexible Cable (A Type)
<b>Pin Count</b>	40 Pins
<b>Pitch</b>	0.5mm
<b>Length</b>	200mm (7.87 inches)
<b>Width</b>	20.5mm (0.81 inches)
<b>Material</b>	Copper
<b>Color</b>	White
<b>Package Quantity</b>	5 x FFC Cable

Note: All dimensions are measured manually; please allow a tolerance of +/- 0.1 inch.

**Length:** 200mm / 7.87"

**Quantity:** 5 Pcs

**Width:** 20.5mm / 0.81"



Figure 3: Cable dimensions including length and width.

Pin Count: 40 Pins

Pitch: 0.5mm

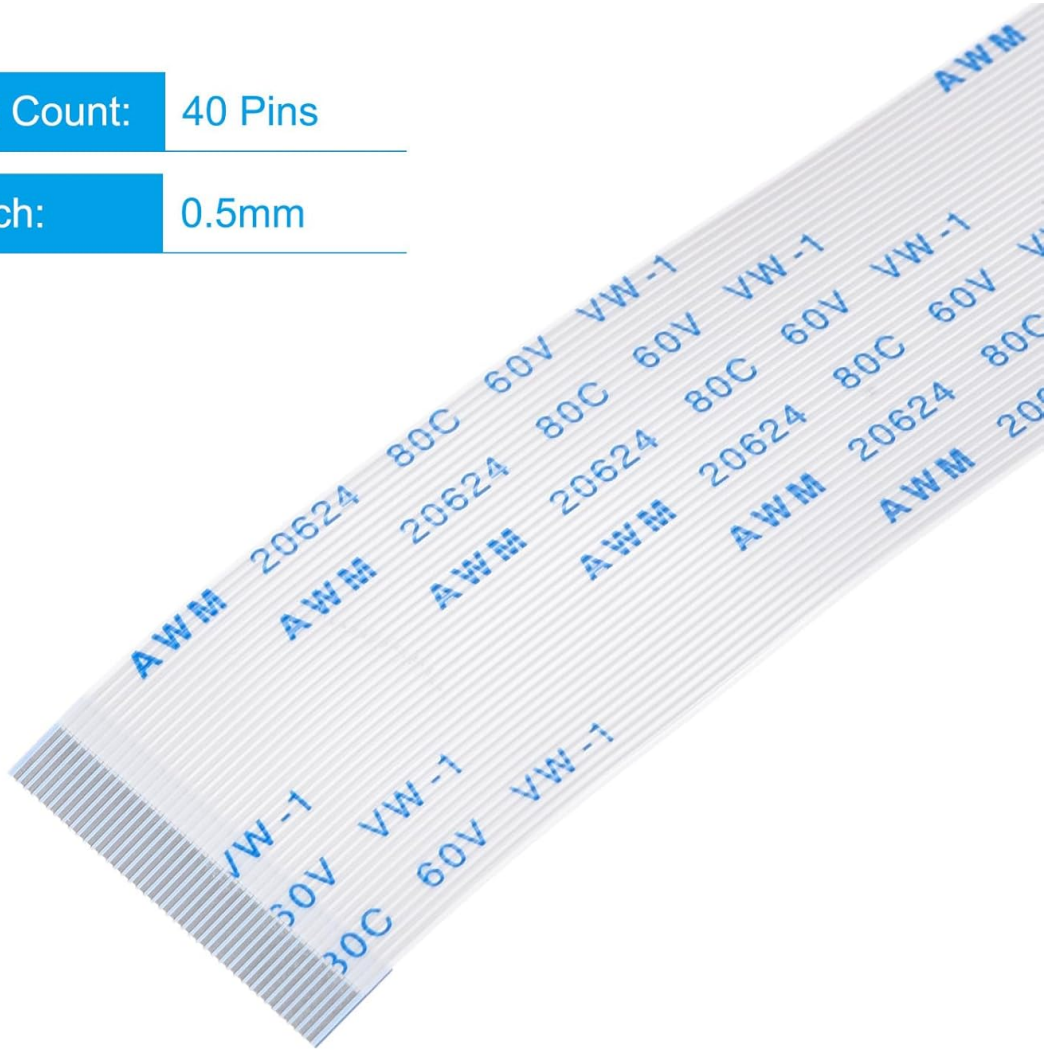


Figure 4: Details on pin count and pitch of the FFC/FPC cable.

## 4. INSTALLATION GUIDE

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Follow these steps for proper installation of the FFC/FPC cable:

1. **Prepare the Connection Point:** Ensure the receiving connector on your equipment's circuit board is clean and free from debris. Gently open the connector's locking mechanism if present.
2. **Insert the Cable:** Carefully insert one end of the FFC/FPC cable into the corresponding connector on your equipment's board. Ensure the cable is fully seated and aligned correctly with the pins.
3. **Secure the Connection:** Close the connector's locking mechanism (if applicable) to firmly secure the cable in place. Avoid excessive force to prevent damage to the cable or connector.
4. **Connect the Other End:** Repeat steps 2 and 3 for the other end of the FFC/FPC cable, connecting it to the second component or board.
5. **Test Functionality:** After installation, power on your equipment and test its functions to confirm that the connection is successful and stable.



## Application

FPC/FFC cables kit often found in high density electronic applications like those small electrical equipment. Widely used for laptops, DVD player, LCD monitors, audio system and other DIY projects, etc.

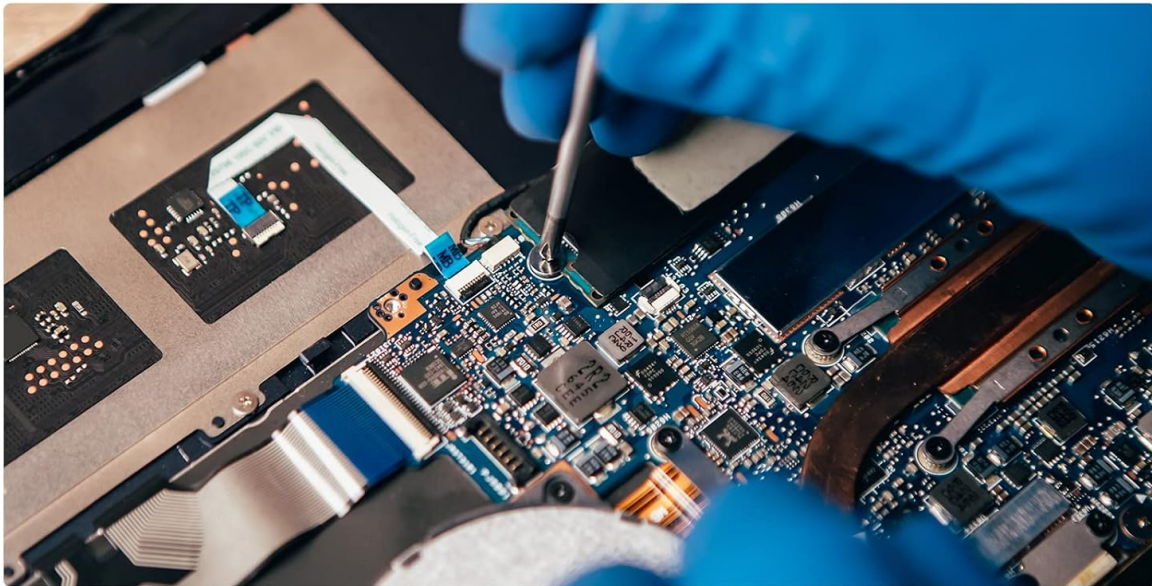


Figure 5: Examples of FFC/FPC cable application within a laptop and connected to a circuit board.

## 5. OPERATING INSTRUCTIONS

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As a passive component, the FFC/FPC cable does not require specific operating instructions beyond proper installation. Once correctly installed, it facilitates the electrical connection between components. Ensure that the cable is not subjected to sharp bends or excessive tension during operation to maintain signal integrity and prevent damage.

## 6. MAINTENANCE

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FFC/FPC cables are generally maintenance-free. However, to ensure longevity and reliable performance:

- **Keep Clean:** Avoid dust and debris accumulation on the cable and its connectors. If cleaning is necessary, use a soft, dry cloth or a gentle air blower. Do not use liquid cleaners directly on the cable or connectors.
- **Avoid Physical Stress:** Do not bend the cable sharply or apply excessive force, as this can damage the internal conductors or the stiffeners.
- **Inspect Periodically:** If the equipment is frequently opened or serviced, periodically inspect the cable for any signs of wear, fraying, or damage to the connectors.

## 7. TROUBLESHOOTING

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If you experience issues after installing the FFC/FPC cable, consider the following troubleshooting steps:

- **No Signal/Intermittent Connection:**
  - Ensure both ends of the cable are fully and correctly seated in their respective connectors.
  - Check that the connector locking mechanisms are properly engaged.
  - Inspect the cable for any visible damage, such as kinks, tears, or bent pins.
  - Verify that the cable type (A Type) matches the requirements of your equipment.
- **Physical Damage:**
  - If the cable is physically damaged, it should be replaced immediately to prevent short circuits or further equipment damage.

## 8. SAFETY INFORMATION

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When handling FFC/FPC cables and electronic components:

- Always disconnect power from the equipment before installing or removing cables.
- Handle cables by their stiffened ends to avoid damaging the flexible conductor area.
- Avoid touching the metallic contacts of the cable or connectors to prevent electrostatic discharge (ESD) damage to sensitive components. Use appropriate ESD precautions if available.
- Do not force connections; if a cable does not fit, recheck its orientation and compatibility.

## 9. WARRANTY AND SUPPORT

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For specific warranty information or technical support regarding your MECCANIXITY FFC/FPC Flat Flexible Cable, please refer to the product packaging or contact MECCANIXITY customer service directly. Keep your purchase receipt as proof of purchase for any warranty claims.