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Burndy YF2407UI

Burndy YF2407UI Bare Ferrule Instruction Manual

Model: YF2407UI

Product Overview



Image: Burndy YF2407UI Bare Ferrule. This image displays the small, cylindrical metal ferrule, designed for terminating stranded wires. It is made of tin-plated copper and features a smooth funnel entry for easy wire insertion.

Type YF Bare ferrule for use on copper conductor. Wire ferrules are also known as cord end terminals or bootlace ferrules. These are electrical connectors used to terminate stranded wires. These terminals are made of electrolytically tin plated copper, uninsulated ferrules are designed to form neat end terminations to multi-strand cables or wires. Smooth funnel entry assists in wire insertion. Specifically designed to aid in termination of extra flexible fine stranded conductor, provides enhanced flexibility relating to wire termination and management. A positive contact surface helps ensure system integrity.

Key Features

- Made of electrolytic copper, tin plated
- Seamless barrels
- Smooth funnel entry to make wire insertion easier
- RoHS compliant

Specifications

Attribute	Value

Brand	Burndy
Model Number	YF2407UI
Wire Size (AWG)	24
Diameter	0.047"
Length	0.276"
Material	Electrolytic Tin Plated Copper
Connector Type	Crimp
Package Quantity	1000
RoHS Compliant	Yes
First Available Date	April 11, 2013

Setup

Before using the Burndy YF2407UI Bare Ferrules, ensure you have the appropriate tools, including a wire stripper and a crimping tool designed for bare ferrules of 24 AWG wire size. Verify that the wire to be terminated is clean and free of insulation for the length required by the ferrule.

1. **Prepare the Wire:** Carefully strip the insulation from the end of the stranded wire to the appropriate length, typically matching the metal barrel length of the ferrule. Ensure no stray strands are present.
2. **Select the Ferrule:** Choose a Burndy YF2407UI ferrule that matches the 24 AWG wire size.
3. **Insert the Wire:** Insert the stripped end of the stranded wire into the funnel entry of the ferrule. Push the wire until all strands are fully contained within the ferrule's barrel. The smooth funnel entry is designed to facilitate this process and prevent wire splaying.

Operating Instructions

Proper crimping is essential for a secure and reliable electrical connection. Use a crimping tool specifically designed for bare ferrules to ensure optimal performance.

1. **Position the Ferrule:** Place the ferrule, with the wire inserted, into the correct crimping die cavity of your crimping tool. The die cavity should correspond to the 24 AWG size of the ferrule.
2. **Perform the Crimp:** Close the handles of the crimping tool firmly and completely until the crimping cycle is finished. This action will compress the ferrule onto the wire strands, creating a gas-tight connection.
3. **Inspect the Crimp:** After crimping, visually inspect the ferrule. The crimp should be uniform and secure, with no loose strands or signs of damage to the ferrule. A properly crimped ferrule will provide a positive contact surface and ensure system integrity.
4. **Test the Connection (Optional):** Gently tug on the wire to ensure it is securely held within the ferrule. The connection should not pull apart.

Maintenance

Burndy YF2407UI Bare Ferrules require minimal maintenance due to their robust construction. However, proper storage and handling are crucial to maintain their quality and performance.

- **Storage:** Store ferrules in a dry, clean environment, away from moisture, dust, and corrosive substances. Keep them in their original packaging or in sealed containers to prevent contamination and oxidation.
- **Handling:** Handle ferrules with clean hands or gloves to avoid transferring oils or contaminants that could affect electrical conductivity.
- **Inspection:** Before use, quickly inspect ferrules for any signs of damage, corrosion, or deformation. Do not use damaged ferrules.

Troubleshooting

If you encounter issues during the termination process, consider the following common problems and solutions:

- **Wire Not Fitting into Ferrule:**
  - Ensure the wire gauge matches the ferrule size (24 AWG for YF2407UI).
  - Check if the wire strands are splayed; twist them gently to consolidate before insertion.
- **Poor Crimp Quality (Loose or Damaged Ferrule):**
  - Verify that the crimping tool is designed for bare ferrules and is set to the correct die size for 24 AWG.
  - Ensure the crimping tool handles are fully closed during the crimp cycle.
  - Inspect the crimping tool for wear or damage that might affect its performance.
- **Wire Pulling Out of Ferrule After Crimp:**
  - This indicates an insufficient crimp. Re-evaluate the crimping process and tool.
  - Ensure the correct amount of insulation was stripped, allowing all wire strands to be fully within the ferrule barrel.

Warranty and Support

For information regarding warranty, technical support, or product inquiries, please contact Burndy directly or refer to their official website. Burndy products are manufactured to high standards, and support is available for product-related concerns.
Manufacturer: Burndy
Website: www.burndy.com (Example link, actual link may vary)

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