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Glarks G-B007

Glarks 540pcs Electrical Insulated Crimp Terminals Connectors Assortment Kit User Manual

Model: G-B007

Introduction

This user manual provides essential information for the safe and effective use of the Glarks 540pcs Electrical Insulated Crimp Terminals Connectors Assortment Kit. This kit contains a comprehensive selection of high-quality insulated crimp terminals designed for various electrical wiring applications.
The assortment includes different types of connectors such as ring, fork spade, butt splice, piggy back, and bullet terminals, categorized by wire gauge (AWG) and color-coded for easy identification: Red (22-16 AWG), Blue (16-14 AWG), and Yellow (12-10 AWG).



Figure 1: Glarks 540pcs Electrical Insulated Crimp Terminals Connectors Assortment Kit.

Product Components

The kit contains 540 pieces of insulated crimp terminals, organized by type and color. Each color corresponds to a specific wire gauge range:

- **Red Connectors:** Suitable for wire range 0.5~1.5mm² (22-16 A.W.G.), Max. current = 19A.
- **Blue Connectors:** Suitable for wire range 1.5~2.5mm² (16-14 A.W.G.), Max. current = 27A.
- **Yellow Connectors:** Suitable for wire range 4~6mm² (12-10 A.W.G.), Max. current = 48A.

The specific types and quantities of connectors included are detailed below:

Table 1: Connector Types and Quantities

Connector Type	Red (22-16 AWG)	Blue (16-14 AWG)	Yellow (12-10 AWG)	Total per Type
Ring M4	20 pcs	15 pcs	10 pcs	45 pcs
Ring M5	20 pcs	15 pcs	10 pcs	45 pcs
Ring M6	20 pcs	15 pcs	10 pcs	45 pcs
Fork Spade M4	20 pcs	15 pcs	10 pcs	45 pcs
Fork Spade M5	20 pcs	15 pcs	10 pcs	45 pcs
Spade 250 Male (Semi-insulated)	20 pcs	15 pcs	10 pcs	45 pcs
Spade 250 Female (Semi-insulated)	20 pcs	15 pcs	10 pcs	45 pcs
Spade 250 Female (Fully-insulated)	20 pcs	15 pcs	10 pcs	45 pcs
Butt Splice	20 pcs	15 pcs	10 pcs	45 pcs
Piggy back	20 pcs	15 pcs	10 pcs	45 pcs
Bullet Male	20 pcs	15 pcs	10 pcs	45 pcs
Bullet Female	20 pcs	15 pcs	10 pcs	45 pcs



Figure 2: Red Connectors (22-16 AWG).



Figure 3: Blue Connectors (16-14 AWG).



Figure 4: Yellow Connectors (12-10 AWG).

Setup and Preparation

Before using the crimp terminals, ensure you have the necessary tools and a safe working environment.

Required Tools:

- Professional crimping tool (recommended for best results).
- Wire strippers.
- Wire cutters.
- Appropriate wire for your application.

Safety Precautions:

- Always disconnect power before working on electrical circuits.
- Wear appropriate personal protective equipment (PPE), such as safety glasses.
- Ensure your work area is clean, dry, and well-lit.
- Use the correct terminal size and wire gauge for your application to prevent overheating or poor connections.

Operating Instructions

Follow these steps to properly crimp an insulated terminal onto a wire:

1. **Select the Correct Terminal:** Choose a terminal that matches the wire gauge (color-coded) and the type of connection required (e.g., ring, spade, butt splice). Refer to the "Product Components" section for wire gauge compatibility.
2. **Strip the Wire:** Using wire strippers, carefully strip approximately 1/4 to 3/8 inch (6-10 mm) of insulation from the end of the wire. Ensure the stripped wire length is sufficient to fully enter the metal barrel of the terminal without insulation being crimped.
3. **Insert the Wire:** Insert the stripped end of the wire into the metal barrel of the chosen crimp terminal. Ensure all wire strands are inside the barrel.
4. **Crimp the Terminal:** Place the terminal's metal barrel into the appropriate crimping jaw of your professional crimping tool. The tool should be sized to match the terminal's wire gauge. Squeeze the handles of the crimping tool firmly until the crimp is complete. A proper crimp will securely hold the wire without damaging the insulation.
5. **Verify the Connection:** Gently tug on the wire to ensure the crimp is secure and the wire does not pull out of the terminal. Inspect the crimped area for any loose strands or improper crimping. The insulation should be intact and not crimped.

For butt splice connectors, repeat steps 2-4 for the second wire on the other end of the terminal.



Figure 5: Terminals are made from quality copper and PVC materials.

Maintenance

The Glarks crimp terminals are designed for single-use applications. Once crimped, they form a permanent connection. Proper storage of unused terminals is key to maintaining their quality.

- **Storage:** Keep the terminals in their original clear plastic organizer box to prevent mixing and to protect them from dust, moisture, and physical damage. Store in a cool, dry place.
- **Inspection:** Before use, visually inspect terminals for any signs of corrosion, damage, or deformation. Do not use damaged terminals.

Troubleshooting

Common issues encountered during crimping and their solutions:

- **Wire Pulls Out After Crimping:**
  - *Cause:* Incorrect crimping tool, insufficient crimping force, wrong terminal size for wire gauge, or insufficient wire stripped.
  - *Solution:* Ensure you are using a professional crimping tool designed for insulated terminals. Apply firm, even pressure. Verify the terminal color matches the wire gauge. Ensure enough insulation is stripped so the wire fully enters the metal barrel.
- **Insulation Damaged During Crimping:**
  - *Cause:* Incorrect crimping tool setting, wrong terminal size, or wire stripped too long.
  - *Solution:* Adjust your crimping tool if it has adjustable settings. Ensure the terminal size matches the wire gauge. Strip only enough wire to expose the conductor, leaving the insulation to butt up against the terminal's insulation sleeve.
- **Poor Electrical Connection:**
  - *Cause:* Loose crimp, corroded terminal, or incorrect wire gauge.
  - *Solution:* Re-crimp if possible, or replace the terminal. Ensure terminals are stored in a dry environment to prevent corrosion. Always match the terminal to the wire gauge.

Specifications

Attribute	Detail
Product Name	Glarks 540pcs Electrical Insulated Crimp Terminals Connectors Assortment Kit
Model Number	G-B007
Manufacturer	Glarks
Package Quantity	540 pieces
Wire Gauge Range (Red)	22-16 AWG (0.5-1.5mm²)
Max Current (Red)	19A
Wire Gauge Range (Blue)	16-14 AWG (1.5-2.5mm²)
Max Current (Blue)	27A
Wire Gauge Range (Yellow)	12-10 AWG (4-6mm²)
Max Current (Yellow)	48A

Attribute	Detail
Connector Types	Ring, Fork Spade, Butt Splice, Piggy Back, Bullet (Male/Female)
Contact Material	Copper
Insulation Material	Polyvinyl Chloride (PVC)
Compliance	UL and RoHS standards
Product Dimensions	10.8 x 7 x 1.8 inches (Kit Box)
Item Weight	1.52 Pounds



Figure 6: Glarks terminals are widely used in various applications.

Warranty and Support

For information regarding product warranty or technical support, please refer to the manufacturer's official website or contact their customer service department. Contact details are typically provided with your purchase documentation or on the product packaging.
Manufacturer: Glarks
For further assistance, please visit the Glarks Brand Page on Amazon.

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