FOWIUNYE GX16-3pin-female-1m

FOWIUNYE GX16 3 Pin Female Aviation Connector Cable (1 Meter) Instruction Manual

Model: GX16-3pin-female-1m

1. Introduction

This manual provides detailed instructions for the FOWIUNYE GX16 3 Pin Female Aviation Connector Cable. It covers product specifications, installation guidelines, and general usage information to ensure proper and safe operation of the cable.
The GX16 3 Pin cable is designed for reliable electrical connections in various applications, featuring a durable zinc alloy shell and fine copper silver plating for the connector pins.

2. Product Overview

The FOWIUNYE GX16 3 Pin Female Aviation Connector Cable is a single-ended cable designed for secure and stable connections. Its robust construction ensures durability and reliability in demanding environments.

2.1 Key Features

- **Durable Construction:** Features a zinc alloy shell and fine copper silver-plated connector pins for enhanced reliability and longevity.
- **Stable Connection:** Equipped with threads for secure mounting, ensuring a stable and consistent electrical connection.
- **Versatile Application:** Suitable for use in data acquisition systems, computer automation measurement and control systems, mechanical equipment, communications, automotive, and other industrial applications.
- **Cable Type:** GX16, 3 Pin, Single Female Head cable, PVC Cable Cordset, single-ended, straight configuration.



Figure 1: FOWIUNYE GX16 3 Pin Female Aviation Connector Cable. This image shows the coiled black cable with the GX16 female connector at one end and stripped wires at the other.

3. Specifications

The following table details the technical specifications of the GX16 3 Pin Female Aviation Connector Cable:

Specification	Detail
Product Name	GX16 3Pin Cable Single Female Head Aviation Cordset
Shell Material	Zinc Alloy
Installation Method	Cable
Terminal Type	Solder Type
Gender	Single Female Head cable
Connector Type	Cable Cordsets
Number of Positions	3 Pin
Type of Harness	Single-ended cable
Item Model Number	GX16-3pin-female-1m
Item Weight	2.72 ounces
Package Dimensions	6.3 x 6.3 x 0.59 inches



Figure 2: GX16 Connector Dimensions Measured with Calipers. This image displays various dimensions of the GX16 connector, including pin diameter and housing measurements, as precisely measured using digital calipers.

GX16 Contact arrangement and specification

pin	2	3	4	5	6	7	8	9	10
insert arrangement									
contact diameter	φ2.5	φ2.5	φ2.5	φ2.0	φ1.2	φ1.2	φ1.2	φ1.2	φ1.2
rated current (A)	7	7	7	7	5	5	5	5	5
rated voltage (V)	220	220	125	125	125	125	125	125	125
test voltage (V)	1500	1500	1500	1500	1500	1500	1500	1500	1500
contact resistance(mΩ)	3	3	3	4	5	5	5	5	5
insulation resistance(mΩ)	2000	2000	2000	2000	2000	2000	2000	2000	2000
diameter	φ1.4	φ1.4	φ1.4	φ1.2	φ0.8	φ0.8	φ0.8	φ0.8	φ0.8

Figure 3: GX16 Contact Arrangement and Specification Table. This table provides detailed electrical specifications and pin configurations for various GX16 connector types, including contact diameter, rated current, voltage, and resistance.

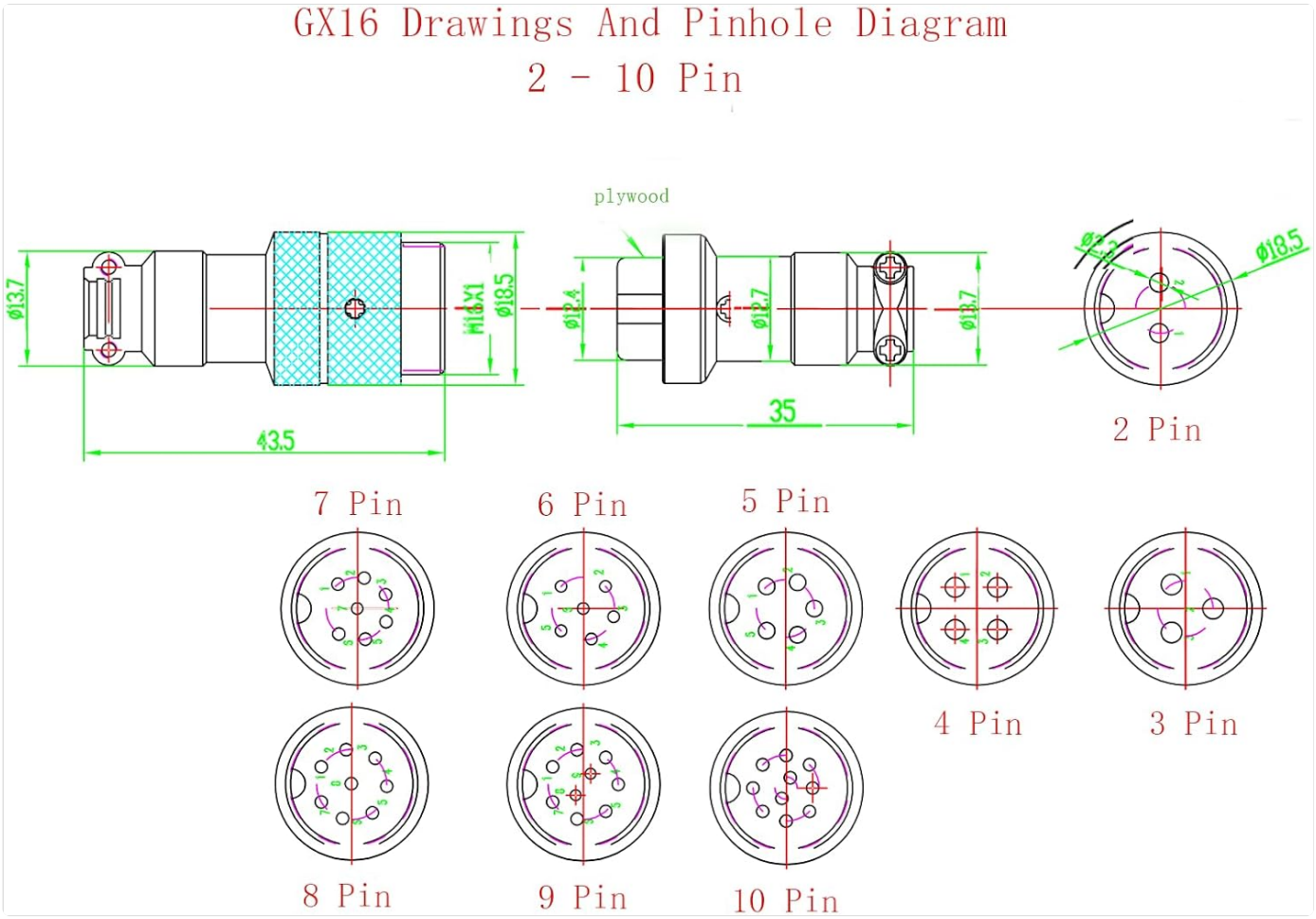


Figure 4: GX16 Drawings and Pinhole Diagram. This diagram illustrates the mechanical dimensions and pin layouts for GX16 connectors ranging from 2 to 10 pins, aiding in proper identification and connection.

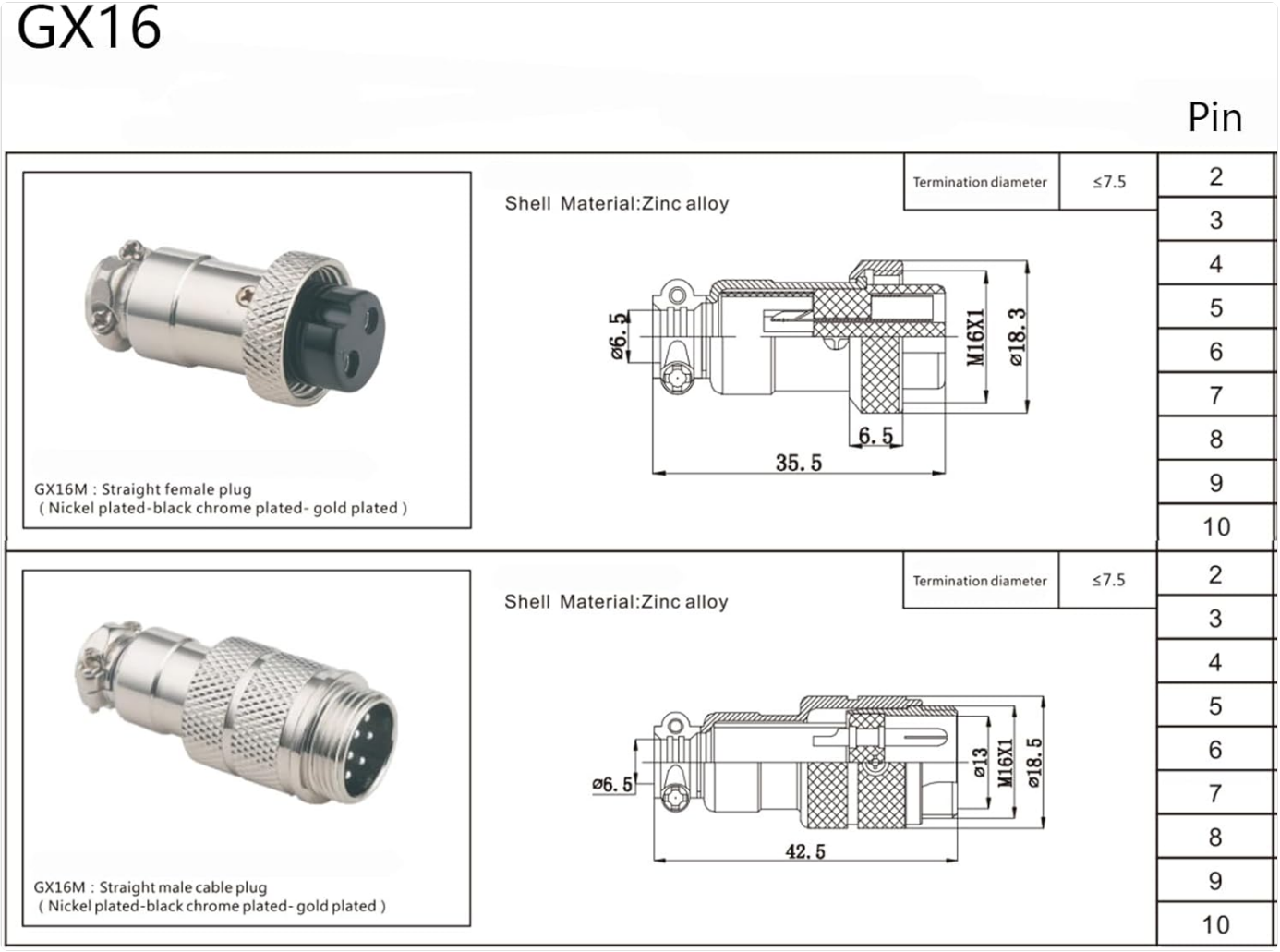


Figure 5: GX16 Male and Female Plug Diagrams. This image shows detailed technical drawings of both GX16 male and female plugs, including dimensions and shell material specifications.

4. Installation and Setup

The GX16 3 Pin Female Aviation Connector Cable is designed for straightforward integration into compatible systems. Proper installation ensures optimal performance and safety.

4.1 Connecting the Cable

1. **Identify Components:** Ensure you have the GX16 3 Pin Female Aviation Connector Cable and the corresponding male connector or device.
2. **Prepare Wires:** The cable comes with stripped wires at one end. If necessary, further strip the insulation to expose the copper conductors for soldering or terminal connection.
3. **Solder Connections:** For the solder-type terminals, carefully solder the exposed wires to the appropriate pins on your device or male connector. Refer to the pinout diagrams (Figure 3 and Figure 4) for correct wiring.
4. **Secure Connection:** Align the female connector with the male connector. Push the connectors together and then twist the threaded locking ring on the female connector clockwise until it is hand-tight. This secures the connection and prevents accidental disconnection.
5. **Verify Connection:** After securing, gently tug on the cable to ensure it is firmly attached.



Figure 6: GX16 3 Pin Female Connector in Hand. This image shows a close-up of the GX16 3-pin female connector, highlighting its design and pin configuration.

Your browser does not support the video tag.

Video 1: GX16 3 Pin Cable Assembly Demonstration. This video demonstrates the process of connecting the GX16 3 Pin female connector to a cable, showing how the wires are prepared and inserted into the connector.

5. Operating Instructions

Once installed, the GX16 3 Pin Female Aviation Connector Cable operates as a standard electrical conduit. Ensure that the connected devices are compatible with the cable's specifications (voltage, current) to prevent damage.

- **Power On/Off:** Follow the power-on and power-off procedures for the equipment connected via this cable.
- **Environmental Conditions:** Operate the cable within appropriate environmental conditions (temperature, humidity) as specified for the connected equipment.
- **Avoid Stress:** Do not subject the cable or connectors to excessive pulling, bending, or twisting forces during operation.

6. Maintenance

Regular maintenance helps prolong the life and ensure the reliability of your GX16 3 Pin Female Aviation Connector Cable.

- **Cleaning:** Periodically inspect the connectors for dust, dirt, or corrosion. Clean with a dry, lint-free cloth. For stubborn dirt, a small amount of isopropyl alcohol can be used, ensuring the connector is completely dry before re-connection.
- **Inspection:** Regularly check the cable for any signs of damage, such as cuts, abrasions, or kinks in the insulation. Inspect the connector housing for cracks or deformation.
- **Storage:** When not in use, store the cable in a clean, dry environment, away from extreme temperatures and direct sunlight. Avoid tightly coiling the cable to prevent internal wire damage.
- **Secure Connections:** Ensure all connections remain tight. Loose connections can lead to intermittent signals or electrical hazards.

7. Troubleshooting

If you encounter issues with your GX16 3 Pin Female Aviation Connector Cable, consider the following troubleshooting steps:

- **No Signal/Power:**
  - Verify that both ends of the cable are securely connected.
  - Check for any visible damage to the cable or connectors.
  - Ensure the connected devices are powered on and functioning correctly.
  - Confirm that the wiring (if user-installed) matches the correct pinout.
- **Intermittent Connection:**
  - Tighten the threaded locking ring on the GX16 connector.
  - Inspect the connector pins for corrosion or bending.
  - Ensure the cable is not being subjected to excessive movement or strain.
- **Physical Damage:**
  - If the cable or connector housing is physically damaged, it should be replaced to ensure safety and proper function.

8. Warranty and Support

For warranty information and technical support regarding your FOWIUNYE GX16 3 Pin Female Aviation Connector Cable, please refer to the documentation provided at the time of purchase or contact the manufacturer directly. Keep your purchase receipt as proof of purchase.

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