

ANMBEST Anmbest_MD151MAIN

ANMBEST DB9 Female Solderless RS232 Breakout Connector Instruction Manual

INTRODUCTION

This manual provides detailed instructions for the installation and use of the ANMBEST DB9 Female Solderless RS232 D-SUB Serial to 9-pin Port Terminal Adapter Connector Breakout Board. This product is designed for easy and reliable serial communication connections without the need for soldering.

PRODUCT OVERVIEW

The ANMBEST DB9 Female Breakout Connector offers a convenient solution for connecting serial devices. Key features include:

- **High Quality & Durable:** Features pure copper plated joints and fine solder joints for reliable contact and long life. The outer casing is made from environmentally friendly PP engineering material.
- **Easy to Use:** Solderless design with 128-type environmental protection copper terminals eliminates the need for soldering tools. The folding buckle casing allows for easy assembly and disassembly.
- **High Compatibility:** Suitable for connecting various serial devices such as computers, tax control machines, digital cameras, PLCs, PDAs, MODEMs, set-top boxes, barcode machines, and industrial instrumentation.
- **User-Friendly Design:** Each set includes a cable pressing plate to secure connected wires. The shell features a non-slip design.
- **Intuitive Labeling:** All signal ports are clearly named and labeled on both sides of the board for quick and accurate wiring.



Image: A set of 10 ANMBEST DB9 Female Solderless RS232 Breakout Connectors with accompanying tail pipes and long bolts.

SETUP AND WIRING PROCEDURE

Follow these steps to correctly assemble and wire your DB9 Female Breakout Connector:

1. **Prepare the Cable:** Obtain a 9-core shielded wire.
2. **Release Terminals:** Open the connector casing and use a screwdriver to loosen the terminal screws.
3. **Cable Peeling:** Strip approximately 35mm of the outer jacket from the cable.
4. **Core Wire Peeling:** Carefully strip about 3mm of insulation from each individual core wire.
5. **Insert Wires:** Place each core wire into its corresponding terminal hole on the breakout board. Refer to the pinout diagram for correct assignments.
6. **Tighten Terminals:** Use a screwdriver to securely tighten the terminal screws, ensuring good contact with each wire.
7. **Press Cable with Crimp:** Position the cable pressing plate over the stripped cable section to provide strain relief.
8. **Check Wiring and Cover:** Verify all connections are correct and secure. Close the connector casing, ensuring it snaps into place.

WIRING PROCEDURE

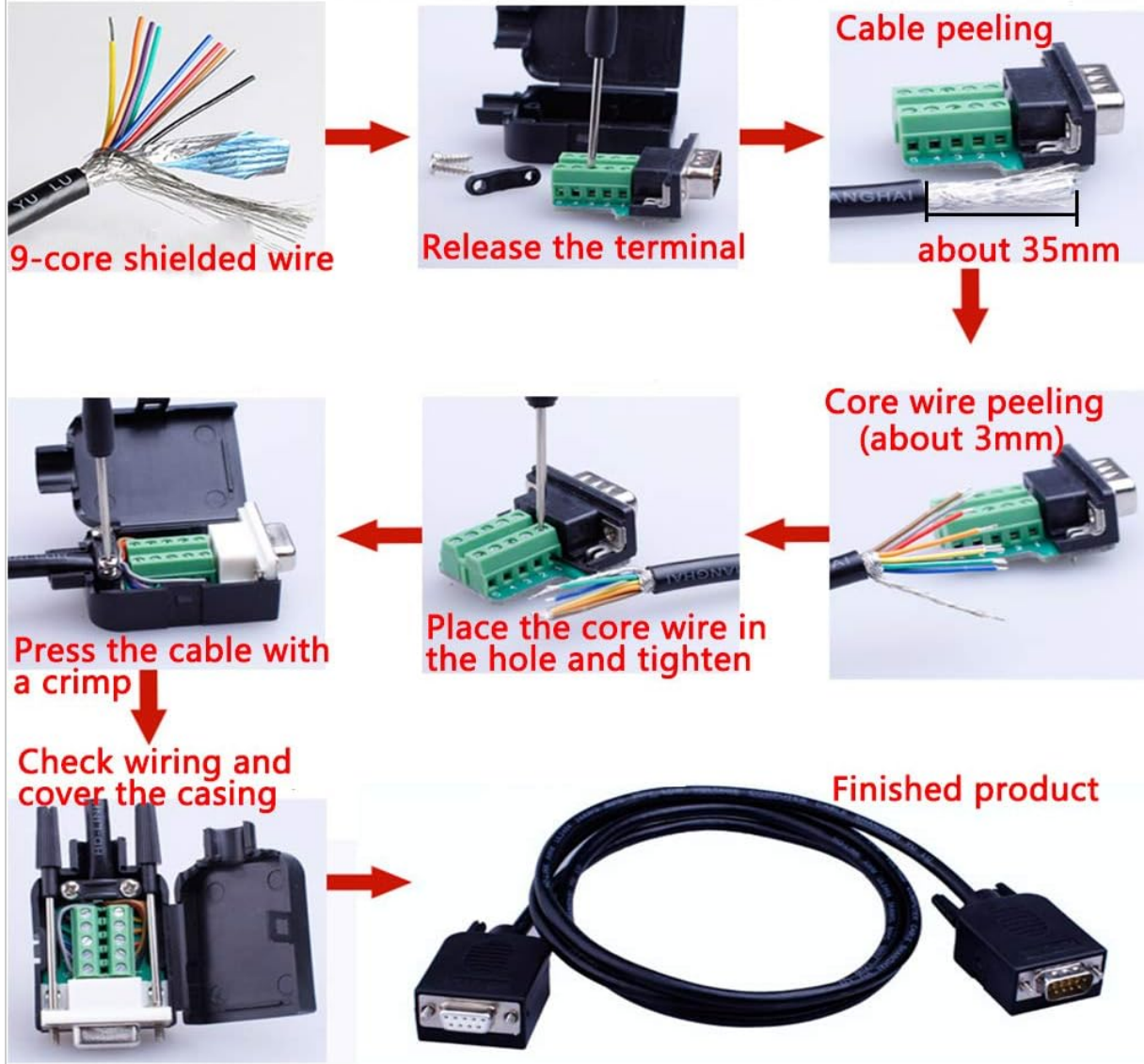


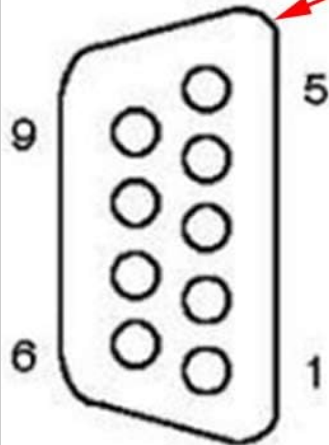
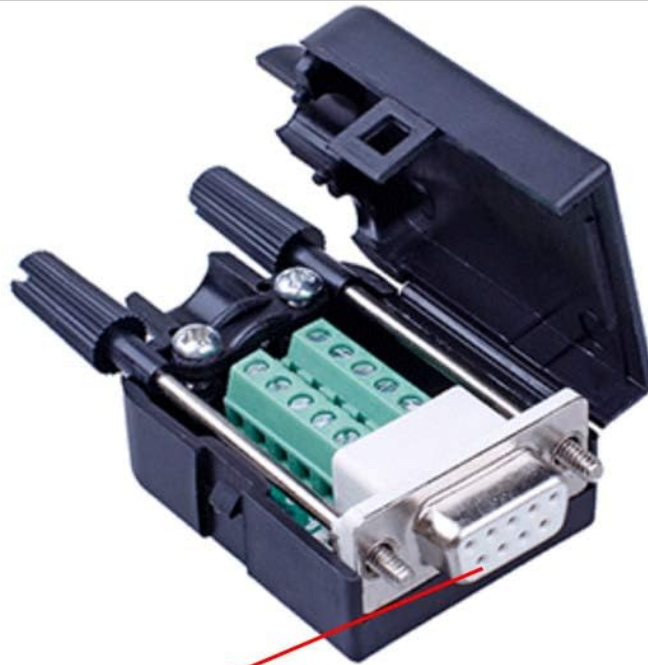
Image: Step-by-step visual guide demonstrating the wiring procedure for the DB9 Solderless Breakout Connector, from cable preparation to final assembly.



Image: A close-up view of the DB9 breakout connector's screw terminals, showing wires inserted and ready for tightening.

DB9 PINOUT DIAGRAM

The following table details the standard pin assignments for the DB9 Female connector, along with their shorthand and function:



Pin number	Shorthand	Function
Pin 1	CD	Carrier Detect
Pin 2	RXD	Receive
Pin 3	TXD	Transmit
Pin 4	DTR	Data Terminal Ready
Pin 5	GND	Ground
Pin 6	DSR	Data Set Ready
Pin 7	RTS	Request to Send
Pin 8	CTS	Clear to Send
Pin 9	RI	Ring Indicator

Image: Diagram illustrating the pin numbering of a DB9 female connector and a table listing each pin's number, shorthand, and function (e.g., RXD, TXD, GND).

Pin Number	Shorthand	Function
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COMPATIBILITY AND APPLICATIONS

The ANMBEST DB9 Female Breakout Connector is highly compatible with a wide range of serial devices, facilitating communication in various setups. Typical applications include:

- Connecting computers to peripheral devices.
- Interfacing with tax control machines.
- Digital cameras.
- Programmable Logic Controllers (PLCs).
- Personal Digital Assistants (PDAs).
- Modems.
- Set-top boxes.
- Barcode machines.
- Industrial instrumentation and automation equipment.

Fine solder joint
Thickened PCB board

All signal ports are clearly named and labeled on both sides of the board

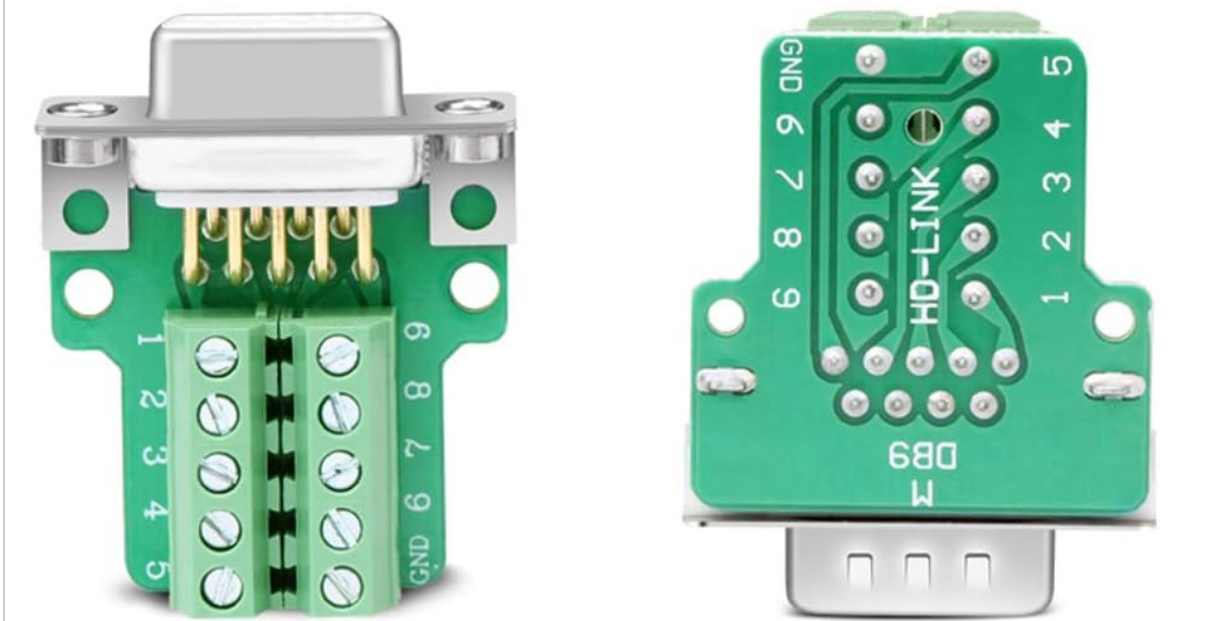


Image: An illustration depicting the ANMBEST DB9 connector connecting to various compatible devices such as computers, industrial equipment, cashiers, tax control machines, and automation equipment.

SPECIFICATIONS

Attribute	Detail
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Attribute	Detail
Brand	ANMBEST
Model Number	Anmbest_MD151MAIN
Connector Type	DB9 Female Serial Adapter
Wiring Method	Solderless Screw Terminal
Terminal Material	Pure copper plated joints
Casing Material	Environmentally friendly PP engineering material
Color	Black, Green
Item Weight	14.4 ounces (for the 10-pack)
Package Dimensions	10.71 x 9.33 x 2.05 inches

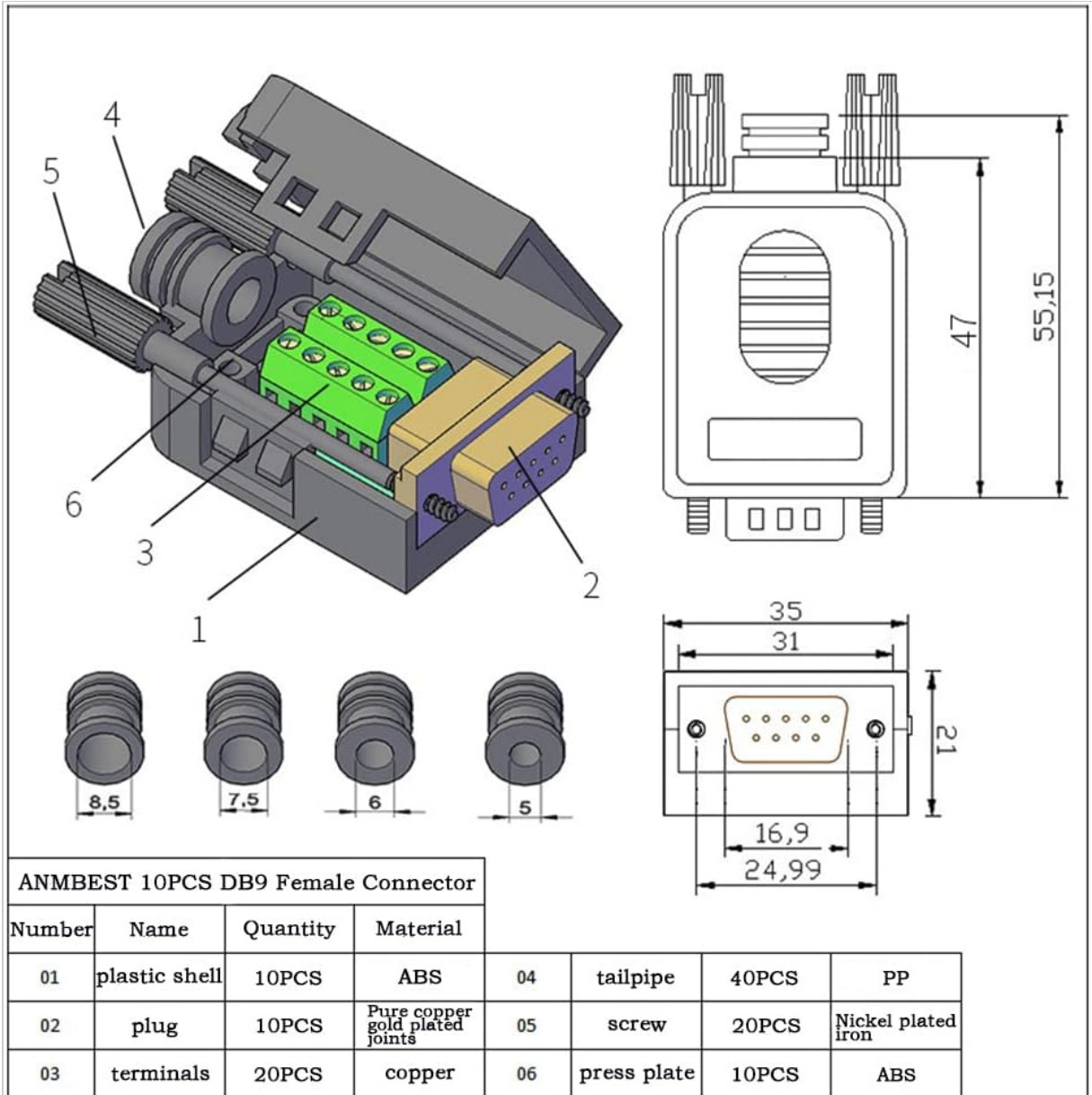


Image: Technical drawing showing the dimensions of the DB9 Female Breakout Connector and a list of components with their quantities and materials.

TROUBLESHOOTING

If you encounter issues with your DB9 breakout connector, consider the following:

- **No Connection:** Ensure all wires are securely tightened in their respective terminals. Check for any loose connections or improperly stripped wires.
- **Incorrect Data:** Verify that the pinout configuration matches the requirements of your connected devices. Double-check the wiring against the pinout diagram.
- **Intermittent Connection:** Inspect the cable for damage. Ensure the cable pressing plate is properly installed to prevent strain on the connections.
- **Physical Damage:** Avoid excessive force during assembly or disassembly. The casing is designed for easy opening and closing.

WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the ANMBEST official website or contact their customer service directly. Keep your purchase receipt for any warranty claims.

For additional assistance, you may visit the [ANMBEST brand page on Amazon](#).