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› DB26 Breakout Connector User Manual

## ANMBEST B08SJS5XGT

# DB26 Breakout Connector User Manual

Comprehensive guide for the ANMBEST DB26 Female Solderless Breakout Connector.

## 1. PRODUCT OVERVIEW

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The ANMBEST DB26 Female Solderless Breakout Connector is designed to simplify the termination of cable connections for various equipment. It allows for easy connection to custom length cables and the creation of custom pinouts without the need for soldering. Constructed with high-quality materials, this connector ensures a durable and reliable connection for a wide range of applications.



Image 1.1: The DB26 Female Solderless Breakout Connector shown with its protective case open, revealing the terminal block and D-SUB connector. Various components like screws and tail pipes are also visible.

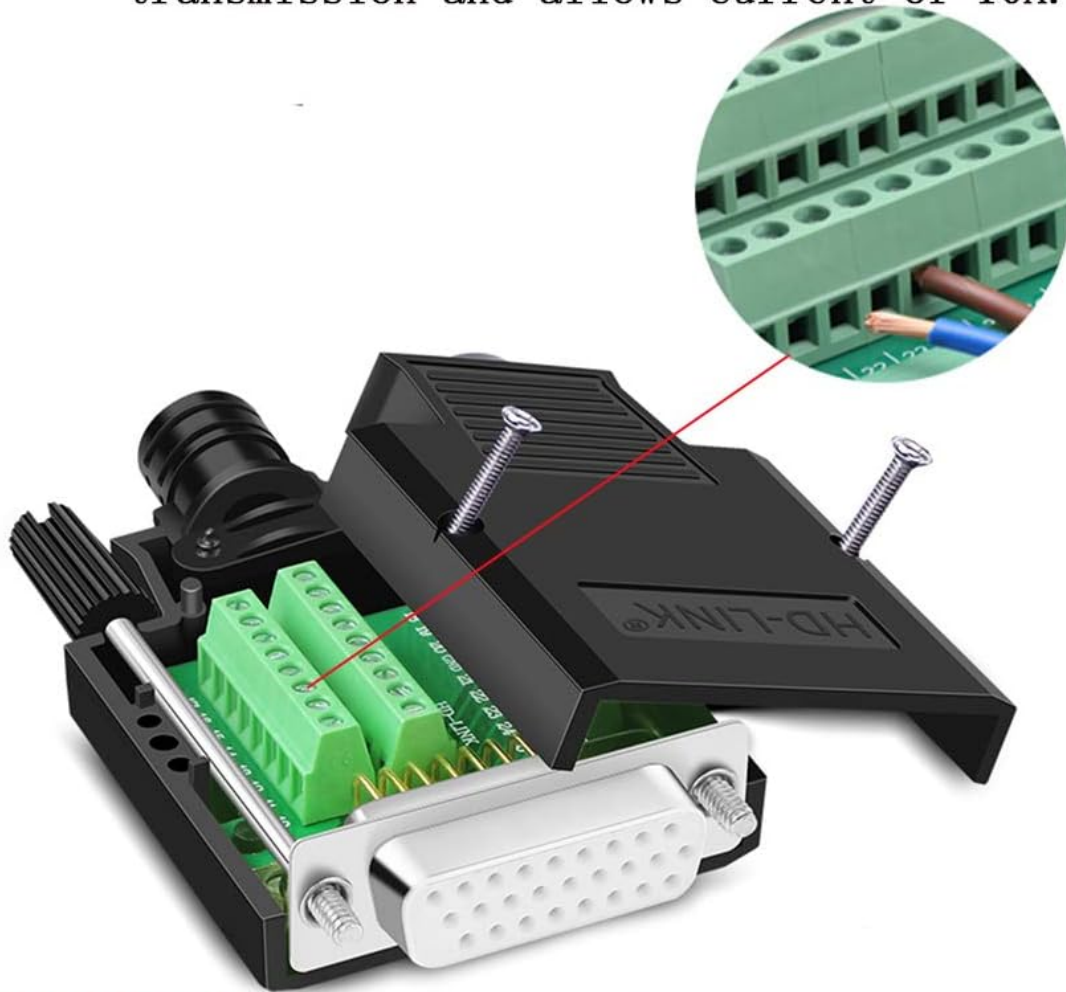
## 2. FEATURES

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- **Durable Construction:** Features solid pure copper plated joints and fine solder joints, ensuring resistance to repeated plugging and good contact for high-quality, long-lasting performance.
- **Solderless Design:** Utilizes a 128-type environmental protection copper terminal design, eliminating the need for soldering irons and complex tools, which simplifies wiring.
- **Secure Screw Lock:** The protective shell is secured with screws and nuts, preventing the shell from opening unintentionally or having large gaps, ensuring a tight and secure enclosure.
- **Reliable Cable Management:** Each unit includes four different sizes of tail pipes (5mm, 6mm, 7.5mm, 8.5mm) to ensure the cable is securely pulled and prevent wire disconnections or poor contact during use.
- **Wide Compatibility:** Capable of connecting to various serial devices, including computers, tax control machines, digital cameras, PLCs, PDAs, MODEMs, set-top boxes, barcode machines, and industrial instrumentation.

# No Soldering Required

Pure copper terminal block, which has good transmission and allows current of 10A.



**SCREW LOCK:** The shell is locked with screws and nuts, which can avoid the disadvantages of not closing the shell tightly or large gaps.

Image 2.1: Illustration highlighting the solderless design, showing a wire inserted into the pure copper terminal block, which supports up to 10A current.

**Fine solder joint**  
**Thickened PCB board**

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

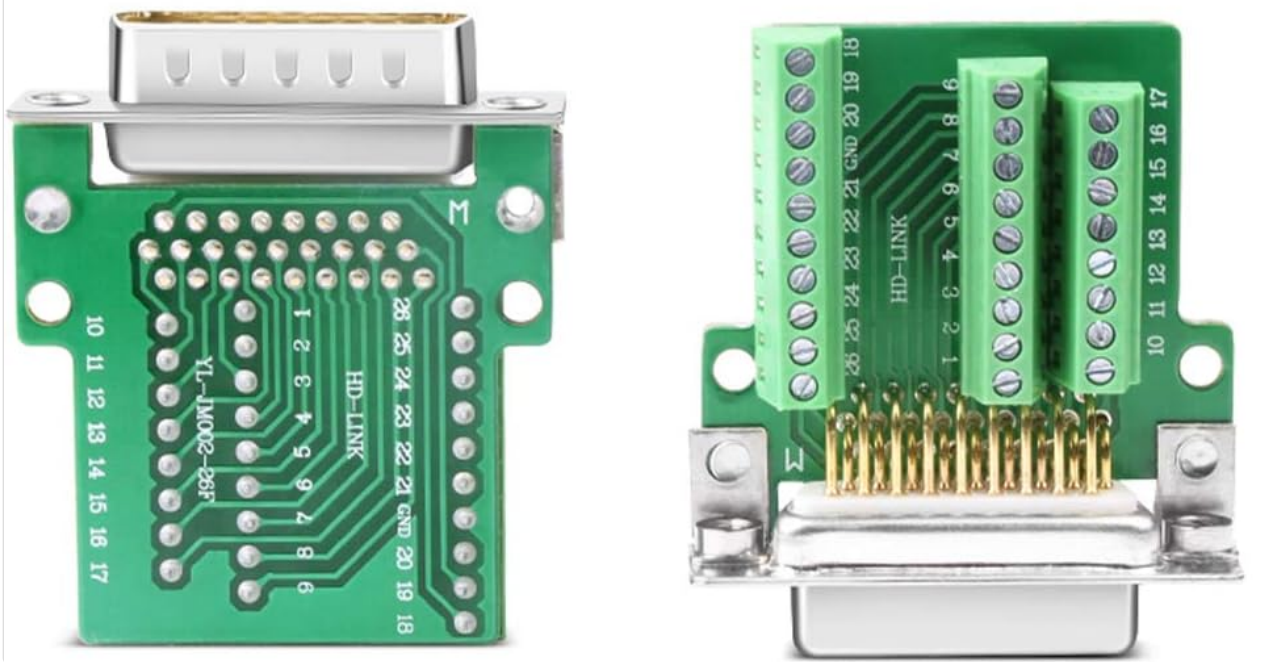


Image 2.2: Close-up view demonstrating the screw lock mechanism of the connector's shell, ensuring a secure and tight closure.



Image 2.3: Diagram illustrating various applications for the DB26 breakout connector, including industrial equipment, computers, cashiers, tax control machines, industrial instruments, and automation equipment.

### 3. PACKAGE CONTENTS

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The following items are included in your package:

- 1 x DB26 Female Solderless Connector
- 2 x Lock screws
- 2 x Long bolts
- 1 x Cable pressing plate
- 1 x 5mm tail pipe
- 1 x 6mm tail pipe
- 1 x 7.5mm tail pipe
- 1 x 8.5mm tail pipe

### 4. TECHNICAL SPECIFICATIONS

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Specification	Value
Name	Thin DB26 solderless module
Plug Type	Female
Connector Material	Solid pure copper with gold plating
Contact Material	Solid Copper
Housing Material	High toughness ABS plastic shell
Shell Type	Screw lock
Pin Pitch	3.81mm / 0.15in
Cable Specification	28-16 AWG / 0.15-1.5mm <sup>2</sup>
Torque	0.2Nm (1.7Lb-In.)
Opening Size (Cable Port)	10.5mm / 0.41"
Thickness	16mm / 0.63"
Dimensions (L×W×H)	55mm × 43mm × 16mm / 2.17" × 1.69" × 0.63"
Item Weight	1.76 ounces
Color	Black

## 5. SETUP AND INSTALLATION

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Follow these steps to properly set up and install your DB26 Solderless Breakout Connector:

- 1. Prepare the Cable:** Strip the outer jacket of your cable to expose the individual wires. Strip approximately 5-7mm of insulation from each wire end that will be connected to the terminal block.
- 2. Open the Connector Case:** Unscrew the two long bolts and the two lock screws to separate the top and bottom halves of the connector case.
- 3. Connect Wires to Terminal Block:** Identify the corresponding pin numbers on the terminal block. Each pin is clearly labeled. Loosen the screw for the desired terminal, insert the stripped wire end, and tighten the screw to secure the connection. Ensure all connections are firm and no stray wire strands are present.
- 4. Select Tail Pipe:** Choose the appropriate tail pipe (5mm, 6mm, 7.5mm, or 8.5mm) that best fits the diameter of your cable. This will provide strain relief and prevent cable movement.
- 5. Assemble the Case:** Route the cable through the selected tail pipe and the cable pressing plate. Align the two halves of the connector case, ensuring the D-SUB connector and terminal block are properly seated. Secure the case by re-inserting and tightening the two long bolts and the two lock screws.

Equipped with a crimping ring, 5mm, 6mm, 7.5mm, 8.5mm 4 different sizes of tail pipe. Make sure that the cable is pulled in use without causing dropped wires or poor contact.



Image 5.1: An image showing the various tail pipe sizes (5mm, 6mm, 7.5mm, 8.5mm) and how they are used to secure the cable at the connector's entry point, preventing strain.

**The shell is locked with screws and nuts, which can avoid the disadvantages of not closing the shell tightly or large gaps.**



Image 5.2: A view of the thickened PCB board, highlighting that all signal ports are clearly named and labeled on both sides for easy identification during wiring.



Image 5.3: An internal view of the connector showing multiple colored wires connected to the terminal block, demonstrating a typical wiring configuration.

## 6. OPERATING INSTRUCTIONS

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Once the DB26 Solderless Breakout Connector is assembled with your custom wiring, it functions as a standard DB26 serial connector. Connect the female end of the breakout connector to the male DB26 port of your device or system. Ensure a secure physical connection by tightening any thumbscrews on the D-SUB connector if available. The connected wires will now transmit signals according to your custom pinout configuration.

- Always ensure power is off to both devices before connecting or disconnecting the adapter.
- Verify pin assignments and wiring against your device's documentation to prevent damage or incorrect operation.
- Avoid excessive force when connecting or disconnecting to prevent bending pins or damaging the connector.

## 7. MAINTENANCE

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The DB26 Solderless Breakout Connector requires minimal maintenance. Follow these guidelines to ensure its

longevity:

- **Cleaning:** Keep the connector free from dust and debris. Use a soft, dry cloth to wipe the exterior. For the D-SUB pins, use a non-conductive brush or compressed air to remove any particles.
- **Inspection:** Periodically inspect the cable connections within the terminal block to ensure screws remain tight and wires are securely fastened. Check the outer casing for any signs of damage or cracks.
- **Storage:** When not in use, store the connector in a clean, dry environment away from extreme temperatures and direct sunlight.

## 8. TROUBLESHOOTING

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If you encounter issues with your DB26 Solderless Breakout Connector, consider the following troubleshooting steps:

- **No Signal/Intermittent Connection:**
  - Verify all wires are securely tightened in the terminal block. Loose connections are a common cause of intermittent signals.
  - Check your custom pinout diagram against the device's requirements to ensure correct wiring.
  - Inspect the D-SUB pins for any bends or damage. Gently straighten bent pins if possible, or replace the connector if severely damaged.
  - Ensure the connector is fully seated and secured to the mating port on your device.
- **Difficulty Closing Case:**
  - Ensure all wires are neatly routed and not pinched between the case halves.
  - Verify the terminal block and D-SUB connector are correctly seated in their designated slots within the case.
  - Confirm the correct tail pipe size is used and properly inserted.
- **Damaged Screws/Terminals:**
  - Avoid over-tightening terminal screws to prevent stripping. Use appropriate torque (0.2Nm / 1.7Lb-In.).
  - If a terminal screw is stripped, it may be difficult to secure a wire. Consider replacing the connector if critical terminals are compromised.

## 9. WARRANTY AND SUPPORT

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ANMBEST products are manufactured to high-quality standards. For specific warranty information or technical support, please refer to the product packaging or contact ANMBEST customer service directly through their official website or the retailer from whom you purchased the product. Please have your product model number (B08SJS5XGT) and purchase details ready when contacting support.