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DTECH DT-9007C-1.5M

DTECH DB9 RS232 Serial Null Modem Cable Instruction Manual

Model: DT-9007C-1.5M

1. PRODUCT OVERVIEW

The DTECH DB9 RS232 Serial Null Modem Cable is designed for reliable data communication between two DTE (Data Terminal Equipment) devices or a DTE and DCE (Data Communication Equipment) device without the need for a modem. This female-to-female cable features a 7-wire crossover configuration with full handshaking support, ensuring stable and efficient data transfer.



Image 1: DTECH DB9 RS232 Female to Female Null Modem Cable. This image shows the coiled black cable with two female DB9 connectors, each featuring thumbscrews for secure attachment.

2. FEATURES

- **Connector Type:** DB9 Female to DB9 Female.
- **Cable Type:** RS232 Serial Null Modem (7-wire, full handshaking).
- **Crossover Wiring:** TX/RX, DTR/DSR, RTS/CTS lines are cross-linked for null modem functionality.
- **Shielding:** Standard AL foil shielding for interference reduction.
- **Secure Connection:** DB9 connectors equipped with thumbscrews for reliable attachment.

- **Wire Gauge:** 30 AWG.
- **Compatibility:** Suitable for connecting various RS232 devices such as computers, modems, printers, plotters, cameras, barcode/embroidery machines, touchscreens, and microcontrollers.

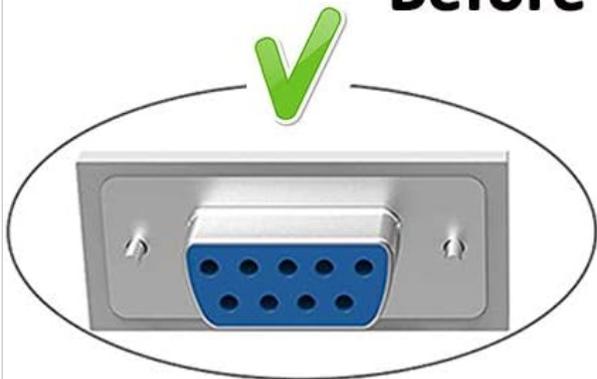
3. SETUP

This cable is designed for null modem connections, meaning it allows two DTE devices to communicate directly without a modem. Ensure your devices require a null modem configuration before connecting.

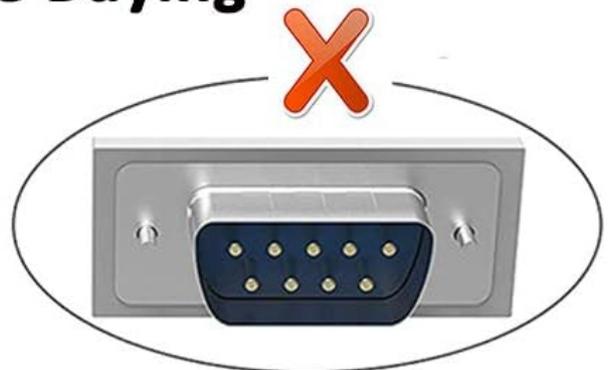
1. **Identify Ports:** Locate the DB9 serial ports on the two devices you intend to connect. Ensure both ports are female DB9 sockets. This cable is not for 15-pin VGA ports or male DB9 ports.



Before The Buying



9 Hole RS232 Female Socket



9 Pin RS232 Male Plug

Yes	No
serial data cable	monitor video cable
9 pin RS232 female port	9 pin RS232 male port
	9 pin EGA/CGA/RGB port
	15 pin VGA port

Image 2: Correctly identifying a 9-hole RS232 female socket. This image illustrates the difference between a compatible 9-hole RS232 female socket (left) and incompatible 9-pin RS232 male plug or 15-pin VGA port (right), emphasizing the correct port type for this cable.

2. **Connect Cable:** Align one end of the DTECH DB9 Null Modem Cable with the serial port on the first device. Gently push the connector into the port.
3. **Secure Connection:** Tighten the thumbscrews on the cable connector to secure it firmly to the device's port. This

prevents accidental disconnection and ensures stable data flow.

4. **Repeat for Second Device:** Connect the other end of the cable to the serial port on the second device, following the same alignment and securing steps.
5. **Verify Connection:** Once both ends are securely connected, the physical setup is complete. Software configuration on your devices may be required for data communication.

Important Note: This is a null modem (crossover) cable. It is not a straight-through serial cable or a VGA cable. Using it for purposes other than null modem RS232 communication may result in improper functionality or damage.



Full Handshaking Null Modem Cable

TX/RX,DTR/DSR,RTS/CTS line crosslinked

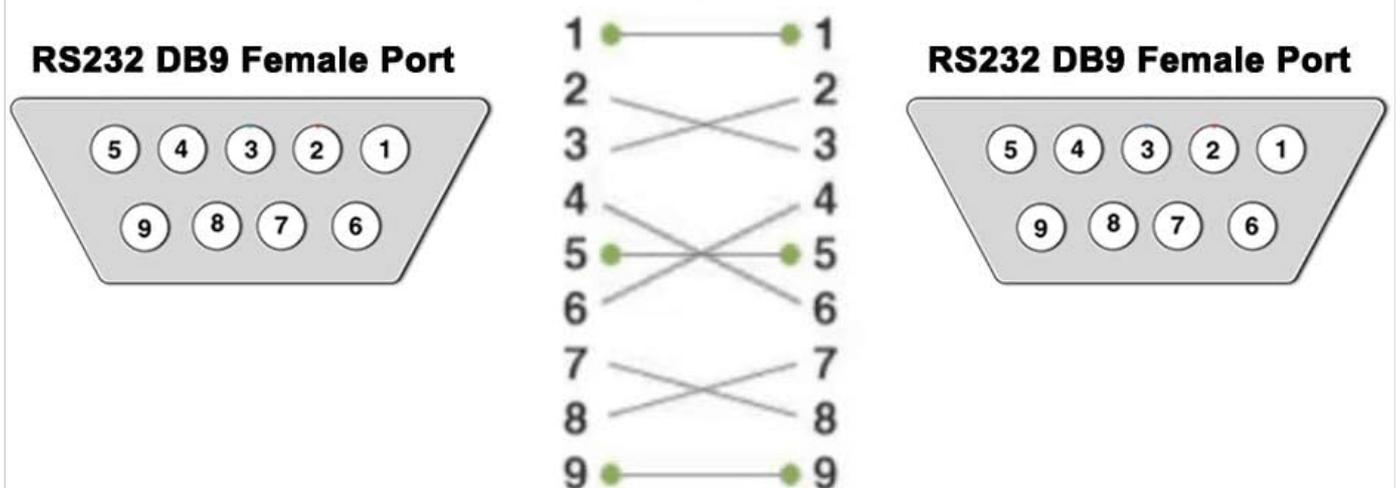


Image 3: Full Handshaking Null Modem Cable Wiring Diagram. This diagram illustrates the cross-linked connections between two RS232 DB9 Female Ports, specifically showing how TX/RX, DTR/DSR, and RTS/CTS lines are wired for full handshaking null modem functionality.

4. OPERATING

Once the DTECH DB9 RS232 Null Modem Cable is physically connected, data communication is managed by the software and operating systems of the connected devices. This cable facilitates the physical layer connection and ensures the correct signal routing for a null modem setup.

- **Software Configuration:** Refer to the documentation for your specific devices and software applications to configure serial port settings (e.g., baud rate, data bits, parity, stop bits, flow control).
- **Full Handshaking:** This cable supports full handshaking (RTS/CTS, DTR/DSR), which is crucial for reliable data transfer, especially in applications where flow control is necessary to prevent data loss.
- **Data Transfer:** Initiate data transfer through your device's software. The cable will transmit and receive data according to the RS232 null modem standard.

5. MAINTENANCE

To ensure the longevity and optimal performance of your DTECH DB9 RS232 Null Modem Cable, follow these simple maintenance guidelines:

- **Storage:** Store the cable in a cool, dry place away from direct sunlight and extreme temperatures. Avoid tightly coiling or bending the cable sharply, which can damage internal wires.
- **Cleaning:** If necessary, gently wipe the cable and connectors with a soft, dry cloth. Do not use liquid cleaners or solvents, as these can damage the cable's insulation or connector pins.
- **Handling:** Always grasp the connector housing when plugging or unplugging the cable, not the cable itself. Avoid pulling or tugging on the cable.
- **Inspection:** Periodically inspect the cable for any signs of wear, such as frayed insulation, bent pins, or damaged connectors. Replace the cable if any damage is observed to prevent potential communication issues.

6. TROUBLESHOOTING

If you encounter issues with data communication using your DTECH DB9 RS232 Null Modem Cable, consider the following troubleshooting steps:

- **No Communication:**
 - Ensure both devices are powered on.
 - Verify that the cable connectors are securely fastened with the thumbscrews.
 - Check that the correct serial ports are selected in your device's software.
 - Confirm that the software serial port settings (baud rate, data bits, parity, stop bits, flow control) match on both connected devices.
 - Ensure you are using a *null modem* cable, not a straight-through serial cable, for direct DTE-to-DTE communication.
- **Intermittent Connection / Data Errors:**
 - Inspect the cable and connectors for any physical damage (bent pins, frayed wires).
 - Ensure the cable is not excessively long for your application, which can sometimes lead to signal degradation.
 - Check for electromagnetic interference (EMI) from other electronic devices. The cable's shielding helps, but extreme interference can still affect performance.
 - Verify that flow control settings (e.g., RTS/CTS) are correctly configured if your application requires them.
- **Incorrect Port Type:**

- This cable is for DB9 RS232 serial ports. It is not compatible with VGA ports (which are also 9-pin but carry video signals) or other non-RS232 ports.

7. SPECIFICATIONS

Feature	Detail
Brand	DTECH
Model Name	Null Modem Serial Cable 5ft (DT-9007C-1.5M)
Connector Type	DB9 Female to DB9 Female
Cable Type	RS232 Serial Null Modem (Crossover)
Wiring	7-wire, Full Handshaking (TX/RX, DTR/DSR, RTS/CTS cross-linked)
Cable Length	5 feet (1.5 meters)
Color	Black
Wire Gauge	30 AWG
Shielding	Foil-Al layer shielding
Connector Interface Surface	Nickel-plated
Pins Surface	Gold-plated
Compatible Devices	Laptop, Modem, PC, Printer, Router, Scanner, Plotter, Camera, Barcode/Embroidery Machine, Touchscreen, Microcontroller, Factory Test Equipment
Indoor/Outdoor Usage	Indoor
Item Weight	4 ounces
Product Dimensions	9.2 x 7.7 x 2.3 inches

8. WARRANTY AND SUPPORT

DTECH products are designed for reliability and performance. For specific warranty information, please refer to the product packaging or the official DTECH website. If you encounter any issues or require technical assistance, please contact DTECH customer support through their official channels. Keep your purchase receipt as proof of purchase for warranty claims.

For further information, you may also visit the product detail page on [Amazon.com](#).

