# PortServer® TS, Digi Connect®, and Digi One® Products

## Cable Guide

## Revision history—90000253

| Revision | Date | Description |
|---|---|---|
| G | 2013 | Initial release. |
| H | February 2019 | Updated branding and made editorial enhancements. |

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# Contents

## Specialty cables

# Cabling solutions by Digi product and device

Digi Passport and Digi CM products use different pinouts, please refer to the appropriate product documentation.

| RJ-45 to | Male or female | Straight or crossover | Applications | Cable or adapter | Part number | Pin out | Cable identifier |
|---|---|---|---|---|---|---|---|
| DB-9 | F | Crossover | Bay Accelar, Nortel and other DB-9 DTE devices | Cable | 76000645 (4') | RJ45 10-pin to DB9F terminal emulator cable | 61090048 |
| | | | | Adapter (4-pack) | 76000697 | RJ45 to DB9 cable adapter | N/A |

| RJ-45 to | Male or female | Straight or crossover | Applications | Cable or adapter | Part number | Pin out | Cable identifier |
|---|---|---|---|---|---|---|---|
| DB-9 | M | Crossover | The unit provides a single upstream (standard B-type receptacle) and 14 downstream (standard Atype receptacles) USB 2.0 compliant ports. The unit will attach to the upstream device as a Full-/Highspeed hub. The downstream ports support Low-Speed, Full-Speed and High-Speed downstream devices. Each downstream facing port provides a green LED status indicator. Color definitions are as follows:E devices with DB-9 female ports | Cable | 76000264 (4') | RJ45 10-pin to DB9F terminal emulator cable | 61080048 |
| | | | | Adapter | None | None | N/A |
| DB-9 | F | Straight | Modems and other DCE devices with DB-9 male ports | Cable | 76000201 (4') | RJ45 10-pin to DB9M modem cable | 61070024 61070048 |
| | | | | Adapter | None | None | N/A |
| DB-9 | M | Straight | Modems and other DCE devices with DB-9 female ports | Cable | 76000240 (4') | RJ45 10-pin to DB9M modem cable | 61060024 61060048 |
| | | | | Adapter (4-pack) | 76000701 | RJ45 to DB9M modem adapter | N/A |

| RJ-45 to | Male or female | Straight or crossover | Applications | Cable or adapter | Part number | Pin out | Cable identifier |
|---|---|---|---|---|---|---|---|
| DB-25 | M | Crossover | Sun Sparc, Sun Ultra, terminals, printers and other DTE devices with DB-25 female ports | Cable | 76000238 (4') | RJ45 10-pin to DB25F terminal emulator cable | 61040048 |
| | | | | Adapter (4-pack) | 76000698 | RJ45 to DB25M console adapter | N/A |
| DB-25 | F | Crossover | Cisco, IBM and other DTE devices with DB-25 male ports | Cable | N/A | RJ45 10-pin to DB25F terminal emulator cable | 61050048 |
| | | | | Adapter (4-pack) | 76000699 | RJ45 to DB25F cable adapter | N/A |
| DB-25 | M | Straight | Modems and other DCE devices with DB-25 female ports | Cable | 76000195 (4') | RJ45 10-pin to DB25M modem cable | 61020024 |
| | | | | Adapter (4-pack) | 76000700 | RJ45 to DB25M modem adapter | N/A |
| DB-25 | F | Straight | Modems and other DCE devices with DB-25 male ports | Cable | 76000199 (4') | RJ45 10-pin to DB25M modem cable | 61030024 61030048 |
| | | | | Adapter | None | N/A | N/A |

*Cabling solutions by Digi product and device*

| RJ-45 to | Male or female | Straight or crossover | Applications | Cable or adapter | Part number | Pin out | Cable identifier |
|---|---|---|---|---|---|---|---|
| RJ-45 | M | *Special* | For use with Cisco and Sun RJ-45 console ports. | Cable | 76000631 (6') | RJ45 (Altpin On) to RJ45 Cisco console adapter | 63000222-02 |
| | | | | Adapter | None | None | N/A |

- All RJ-45 to DBx cables are 10-pin. Only the RJ-45 to RJ-45 cable is an 8-pin cable.
- All RJ-45 adapters are 8-pin. When using these adapters with modems or other applications that require DCD on pin 1, you must turn on altpin.
- If altpin is turned off, the hardware signal on pin 1 becomes DSR instead of DCD. This alternative can be used if DCD is not required, and DSR is needed instead.

# DB9 and DB25 DTE/console/terminal/printer adapters

# RJ45 to DB9 cable adapter

| From RJ-45 | Signal | Direction | Signal | To DB-9 |
|---|---|---|---|---|
| 1 | DCD | ← | DTR | 4 |
| 2 | RTS | → | CTS | 8 |
| 3 | Ground | ↔ | Ground | Shell |
| 4 | TxD | → | RxD | 2 |
| 5 | RxD | ← | TxD | 3 |
| 6 | SG | ↔ | SG | 5 |
| 7 | CTS | ← | RTS | 7 |
| 8 | DTR | | DCD | 1 |
| | | | DSR | 6 |

Pin 1

Female RJ-45 8-pin

Pin 1

Female DB-9

Cable Adapter not to scale

\* Arrows indicate which direction the signal is flowing.

**Notes:**

■ All RJ45 cable adapters are 8-pin.

■ Altpin should be turned on when using this cable adapter so that DTR will drive DCD (standard usage).

■ If altpin is turned off, the hardware signal on RJ45 pin 1 becomes DSR instead of DCD. This alternative can be used if DCD is not required, and DSR is needed instead.

■ This cable adapter utilizes the RTS signal of the serial device for hardware flow control (RTS/CTS).

# RJ45 to DB25F cable adapter

| From RJ-45 | Signal | Direction | Signal | To DB-25 |
|---|---|---|---|---|
| 1 | DCD | ← | DTR | 20 |
| 2 | RTS | → | CTS | 5 |
| 3 | Ground | ↔ | Ground | Shell |
| 4 | TxD | → | RxD | 3 |
| 5 | RxD | ← | TxD | 2 |
| 6 | SG | ↔ | SG | 7 |
| 7 | CTS | ← | RTS | 4 |
| 8 | DTR | | DSR | 6 |
| | | | DCD | 8 |

Pin 1 — Female RJ-45 8-pin    Pin 1 — Female DB-25
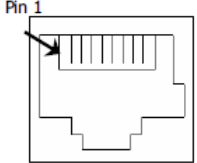
Cable Adapter not to scale
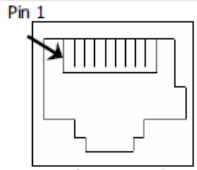
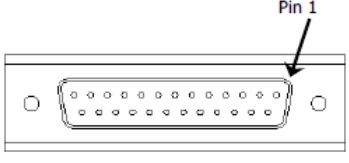\* Arrows indicate which direction the signal is flowing.

**Notes:**

- All RJ45 cable adapters are 8-pin.

- Altpin should be turned on when using this cable adapter so that DTR will drive DCD (standard usage).

- If altpin is turned off, the hardware signal on RJ45 pin 1 becomes DSR instead of DCD. This alternative can be used if DCD is not required, and DSR is needed instead.

- This cable adapter utilizes the RTS signal of the serial device for hardware flow control (RTS/CTS).

# RJ45 to DB25M console adapter

| From RJ-45 | Signal | Direction | Signal | To DB-25 |
|---|---|---|---|---|
| 1 | DCD | ← | DTR | 20 |
| 2 | RTS | → | CTS | 5 |
| 3 | Ground | ↔ | Ground | Shell |
| 4 | TxD | → | RxD | 3 |
| 5 | RxD | ← | TxD | 2 |
| 6 | SG | ↔ | SG | 7 |
| 7 | CTS | ← | RTS | 4 |
| 8 | DTR | | DSR | 6 |
| | | | DCD | 8 |

Pin 1 — Female RJ-45 8-pin

Pin 1 — Male DB-25

Cable Adapter not to scale

\* Arrows indicate which direction the signal is flowing.

**Notes:**

- All RJ45 cable adapters are 8-pin.

- Altpin should be turned on when using this cable adapter so that DTR will drive DCD (standard usage).

- If altpin is turned off, the hardware signal on RJ45 pin 1 becomes DSR instead of DCD. This alternative can be used if DCD is not required, and DSR is needed instead.

- This cable adapter utilizes the RTS signal of the serial device for hardware flow control (RTS/CTS).
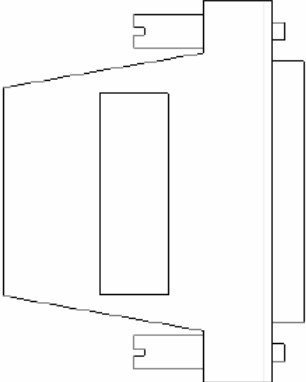
## RJ45 to DB25M printer adapter

| From RJ-45 | Signal | Direction | Signal | To DB-25 |
|------------|--------|-----------|--------|----------|
| 1 | DCD | → | RTS | 4 |
| 2 | RTS | → | CTS | 5 |
| 3 | Ground | ↔ | Ground | Shell |
| 4 | TxD | → | RxD | 3 |
| 5 | RxD | ← | TxD | 2 |
| 6 | SG | ↔ | SG | 7 |
| 7 | CTS | ← | DTR | 20 |
| 8 | DTR | | DSR | 6 |
| | | | DCD | 8 |

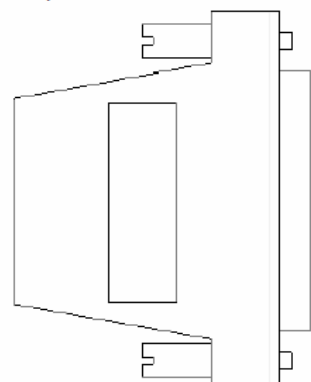Pin 1　Female RJ-45 8-pin　　Pin 1　Male DB-25

Cable Adapter not to scale

\* Arrows indicate which direction the signal is flowing.

**Notes:**

- All RJ45 cable adapters are 8-pin.

- For use with Printers. This adapter utilizes the DTR signal of the serial device (instead of RTS) for hardware flow control (RTS/CTS).

- Okidata printers may use SSD (pin 11) instead of DTR (pin 20) on DB25 side of above diagram. If this is the case, the printer should be set to SSD+.

- Altpin should be turned on when using this cable so that DTR will drive DCD (standard usage).

- If altpin is turned off, the hardware signal on RJ45 pin 1 becomes DSR instead of DCD. This alternative can be used if DCD is not required, and DSR is needed instead.

# RJ45 to DB25M modem adapter
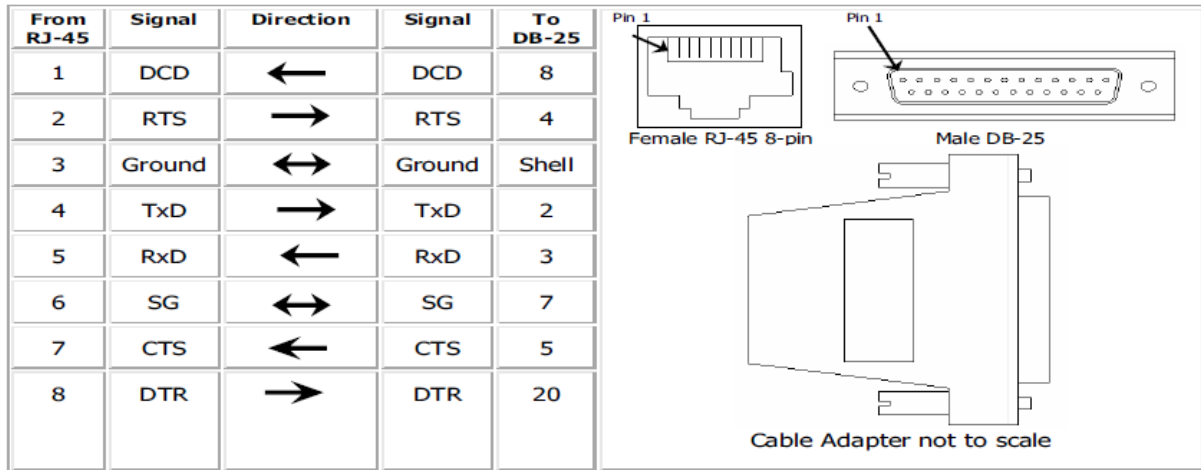
| From RJ-45 | Signal | Direction | Signal | To DB-25 |
|---|---|---|---|---|
| 1 | DCD | ← | DCD | 8 |
| 2 | RTS | → | RTS | 4 |
| 3 | Ground | ↔ | Ground | Shell |
| 4 | TxD | → | TxD | 2 |
| 5 | RxD | ← | RxD | 3 |
| 6 | SG | ↔ | SG | 7 |
| 7 | CTS | ← | CTS | 5 |
| 8 | DTR | → | DTR | 20 |

Pin 1 — Female RJ-45 8-pin     Pin 1 — Male DB-25
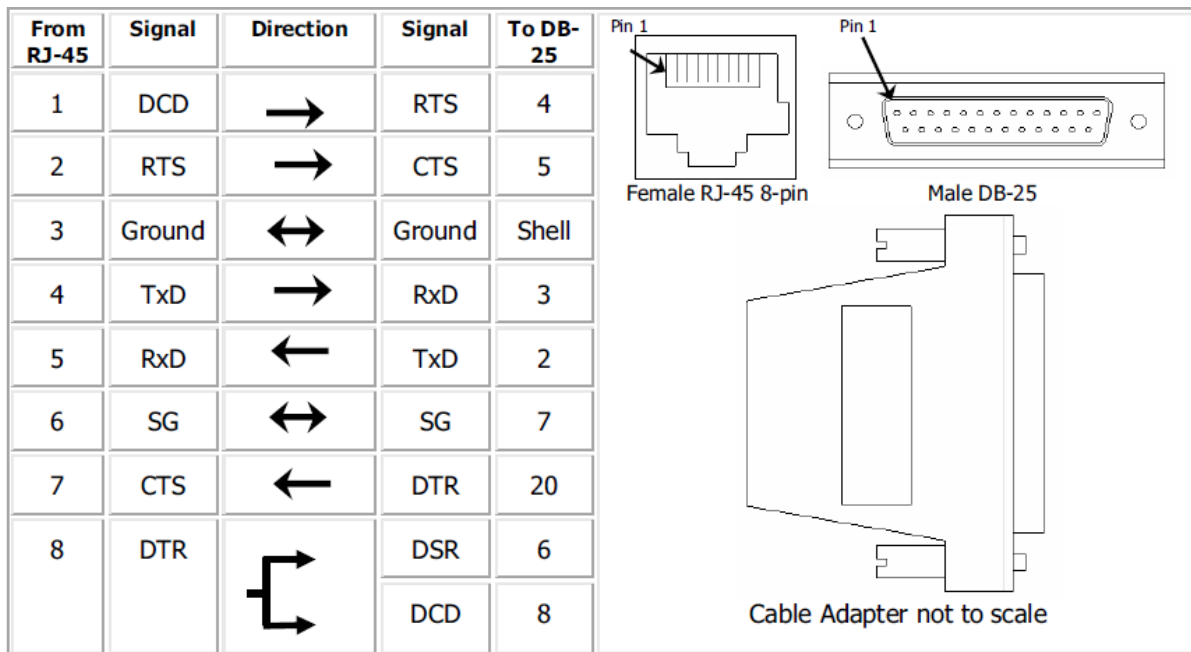
Cable Adapter not to scale

\* Arrows indicate which direction the signal is flowing.

**Notes:**

- All RJ45 cable adapters are 8-pin.

- When using this adapter with a modem or other applications that require DCD on pin 1, you must turn on altpin.

- If altpin is turned off, the hardware signal on pin 1 becomes DSR instead of DCD.

- This cable utilizes the CTS signal of the modem for hardware flow control (RTS/CTS).

# DB9 DTE/console/terminal/printer cables

## RJ45 to DB9F terminal emulator cable

| From RJ-45 | Signal | Direction | Signal | To DB-9 |
|---|---|---|---|---|
| 3 | GND | ↔ | GND | Shell |
| 4 | TxD | → | RxD | 2 |
| 5 | RxD | ← | TxD | 3 |
| 6 | SG | ↔ | SG | 5 |
| 7 | CTS | ← | RTS | 7 |
| 1 | DSR | ← | DTR | 4 |
| 2 | RTS | → | CTS | 8 |
| 8 | DTR | → | DSR | 6 |

FRONT:  8  1
RJ-45 8-Pin

5  1
9  6
Female

Connectors not to scale

* Arrows indicate which direction the signal is flowing.

**Notes:**

- Altpin should be turned off when using this cable so that pin 1 becomes DSR instead of DCD. This alternative can be used if DCD is not required, and DSR is needed instead.

- This cable utilizes the RTS signal of the PC terminal emulator for hardware flow control (RTS/CTS).

## RJ45 (Altpin on) to DB9F terminal emulator cable

| From RJ-45 | Signal | Direction | Signal | To DB-9 |
|---|---|---|---|---|
| 3 | GND | ↔ | GND | Shell |
| 4 | TxD | → | RxD | 2 |
| 5 | RxD | ← | TxD | 3 |
| 6 | SG | ↔ | SG | 5 |
| 7 | CTS | ← | RTS | 7 |
| 1 | DCD | ← | DTR | 4 |
| 2 | RTS | → | CTS | 8 |
| 8 | DTR | → | DSR | 6 |

FRONT:  8  1
RJ-45 8-Pin

5  1
9  6
Female

Connectors not to scale

\* Arrows indicate which direction the signal is flowing.

**Notes:**

- Altpin should be turned on when using this cable so that DTR will drive DCD (standard usage).

- If altpin is turned off, the hardware signal on RJ45 pin 1 becomes DSR instead of DCD. This alternative can be used if DCD is not required, and DSR is needed instead.

- This cable utilizes the RTS signal of the PC terminal emulator for hardware flow control (RTS/CTS).

## RJ45 10-pin to DB9F terminal emulator cable

| From RJ-45 | Signal | Direction | Signal | To DB-9 |
|---|---|---|---|---|
| 10 | DCD | | DTR | 4 |
| 2 | DSR | | | |
| 6 | RxD | ← | TxD | 3 |
| 5 | TxD | → | RxD | 2 |
| 9 | DTR | | DSR | 6 |
| | | | DCD | 1 |
| 7 | SG | ↔ | SG | 5 |
| 3 | RTS | → | CTS | 8 |
| 8 | CTS | ← | RTS | 7 |
| 4 | GND | ↔ | GND | Shell |

FRONT:  10  1
RJ-45 10-Pin

5  1
9  6
Female

Connectors not to scale

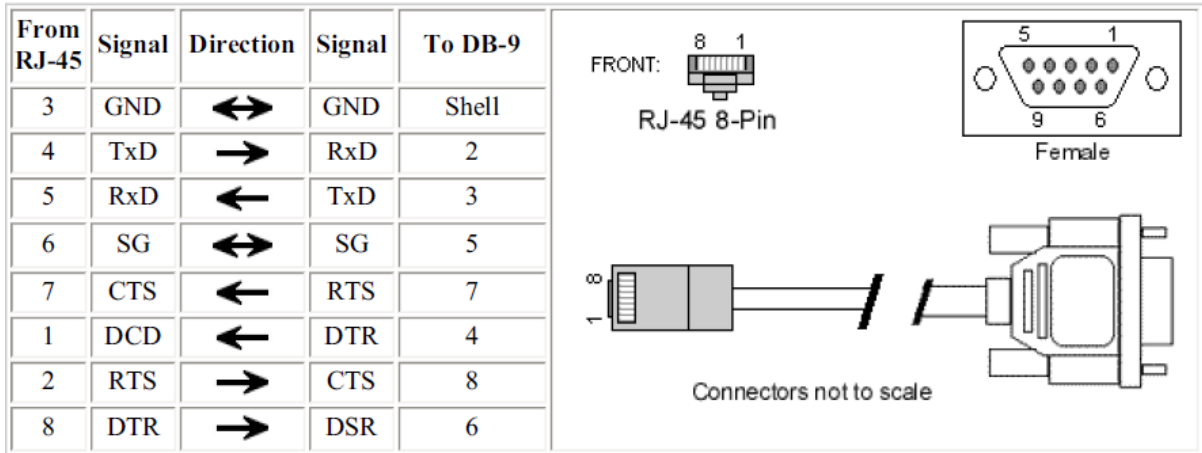\* Arrows indicate which direction the signal is flowing

**Notes:**

■ Altpin should be turned off when using this cable.

■ This cable utilizes the RTS signal of the PC terminal emulator for hardware flow control (RTS/CTS).

## RJ45 (Altpin on) to DB9M terminal/printer cable

| From RJ-45 | Signal | Direction | Signal | To DB-9 |
|---|---|---|---|---|
| 3 | GND | ↔ | GND | Shell |
| 4 | TxD | → | RxD | 2 |
| 5 | RxD | ← | TxD | 3 |
| 6 | SG | ↔ | SG | 5 |
| 7 | CTS | ← | DTR | 4 |
| 1 | DCD | ← | RTS | 7 |
| 2 | RTS | → | CTS | 8 |
| 8 | DTR | → | DSR | 6 |

FRONT:

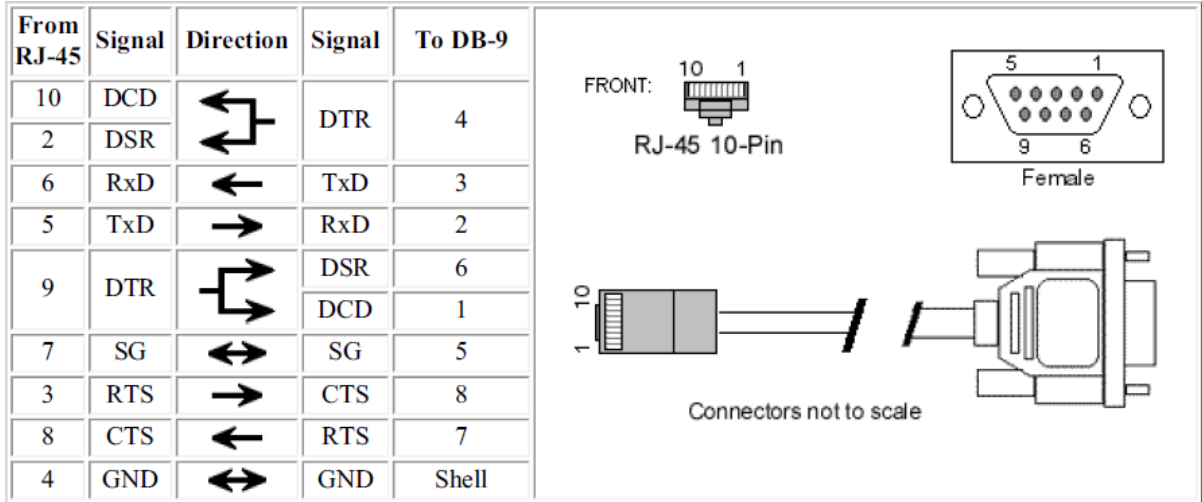RJ-45 8-Pin

Male DB-9

Connectors not to scale

\* Arrows indicate which direction the signal is flowing.

**Notes:**

- Altpin should be turned on when using this cable so that DTR will drive DCD (standard usage).

- If altpin is turned off, the hardware signal on RJ45 pin 1 becomes DSR instead of DCD. This alternative can be used if DCD is not required, and DSR is needed instead.

- This cable utilizes the DTR signal of the terminal/printer for hardware flow control (RTS/CTS).

- EIA-232 cables cannot exceed 2500 pF.

# RJ45 to DB9M terminal/printer cable

| From RJ-45 | Signal | Direction | Signal | To DB-9 |
|------------|--------|-----------|--------|---------|
| 3 | GND | ⬌ | GND | Shell |
| 4 | TxD | ➡ | RxD | 2 |
| 5 | RxD | ⬅ | TxD | 3 |
| 6 | SG | ⬌ | SG | 5 |
| 7 | CTS | ⬅ | DTR | 4 |
| 1 | DSR | ⬅ | RTS | 7 |
| 2 | RTS | ➡ | CTS | 8 |
| 8 | DTR | ➡ | DSR | 6 |

FRONT:
RJ-45 8-Pin

Male DB-9

Connectors not to scale
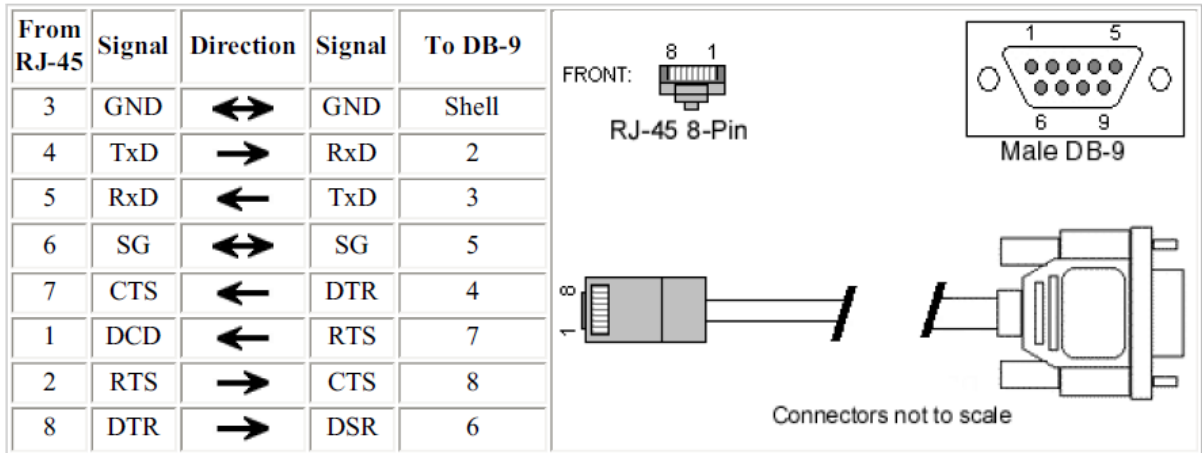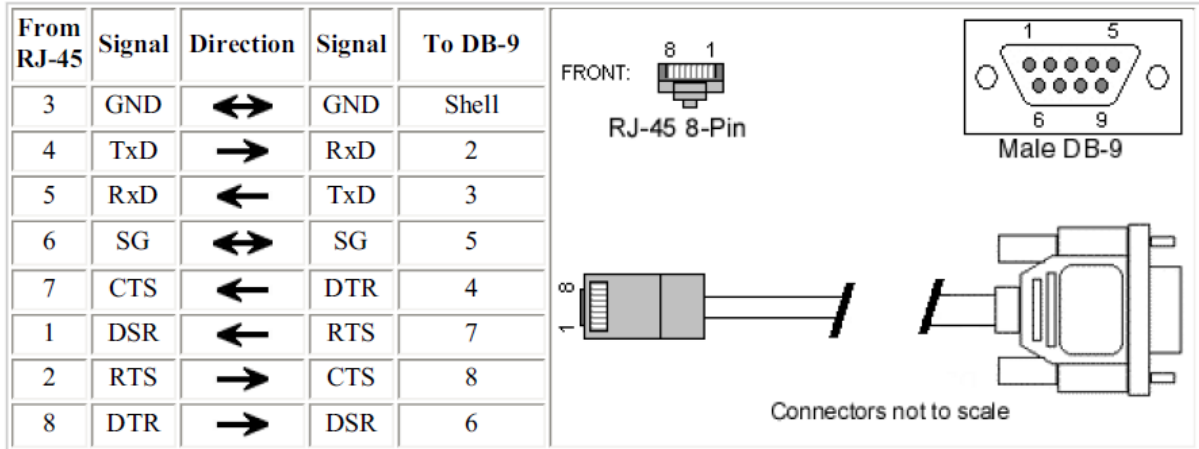
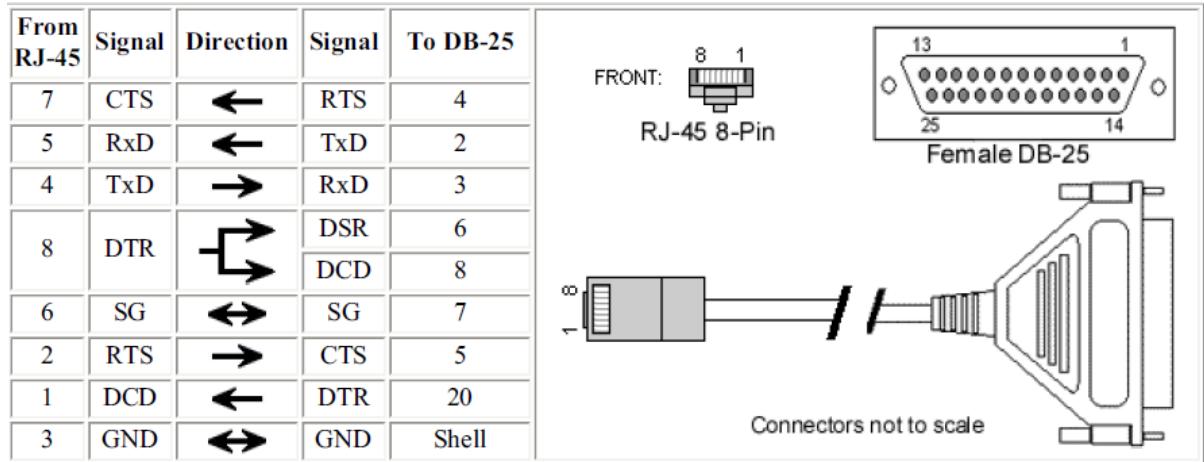* Arrows indicate which direction the signal is flowing.

**Notes:**

- Altpin should be turned off when using this cable so that pin 1 becomes DSR instead of DCD. This alternative can be used if DCD is not required, and DSR is needed instead.

- This cable utilizes the DTR signal of the terminal/printer for hardware flow control (RTS/CTS).

# DB25 DTE/console/terminal/printer cables

## RJ45 (Altpin on) to DB25F terminal emulator cable

| From RJ-45 | Signal | Direction | Signal | To DB-25 |
|---|---|---|---|---|
| 7 | CTS | ← | RTS | 4 |
| 5 | RxD | ← | TxD | 2 |
| 4 | TxD | → | RxD | 3 |
| 8 | DTR | ⤵ | DSR | 6 |
| | | | DCD | 8 |
| 6 | SG | ↔ | SG | 7 |
| 2 | RTS | → | CTS | 5 |
| 1 | DCD | ← | DTR | 20 |
| 3 | GND | ↔ | GND | Shell |

FRONT:  8  1  RJ-45 8-Pin

13  1  25  14  Female DB-25

Connectors not to scale

\* Arrows indicate which direction the signal is flowing.

**Notes:**

- Altpin should be turned on when using this cable so that DTR will drive DCD (standard usage).

- If Altpin is turned off, the hardware signal on RJ45 pin 1 becomes DSR instead of DCD. This alternative can be used if DCD is not required, and DSR is needed instead.

# RJ45 10-pin to DB25F terminal emulator cable

| From RJ-45 | Signal | Direction | Signal | To DB-25 |
|---|---|---|---|---|
| 10 | DCD | ⇆ | DTR | 20 |
| 2 | DSR | | | |
| 6 | RxD | ← | TxD | 2 |
| 5 | TxD | → | RxD | 3 |
| 9 | DTR | ⤵ | DSR | 6 |
| | | | DCD | 8 |
| 7 | SG | ↔ | SG | 7 |
| 3 | RTS | → | CTS | 5 |
| 8 | CTS | ← | RTS | 4 |
| 4 | GND | ↔ | GND | Shell |

FRONT:  RJ-45 10-Pin     Female DB-25

Connectors not to scale

\* Arrows indicate which direction the signal is flowing.

**Notes:**

- Altpin should be turned off when using this cable.

- This cable utilizes the RTS signal of the PC terminal emulator for hardware flow control (RTS/CTS).

# RJ45 to DB25M terminal/printer cable

| From RJ-45 | Signal | Direction | Signal | To DB-25 |
|---|---|---|---|---|
| 1 | DSR | ← | RTS | 4 |
| 5 | RxD | ← | TxD | 2 |
| 4 | TxD | → | RxD | 3 |
| 8 | DTR | ⟶⟶ | DSR | 6 |
| | | | DCD | 8 |
| 6 | SG | ↔ | SG | 7 |
| 2 | RTS | → | CTS | 5 |
| 7 | CTS | ← | DTR | 20 |
| 3 | GND | ↔ | GND | Shell |

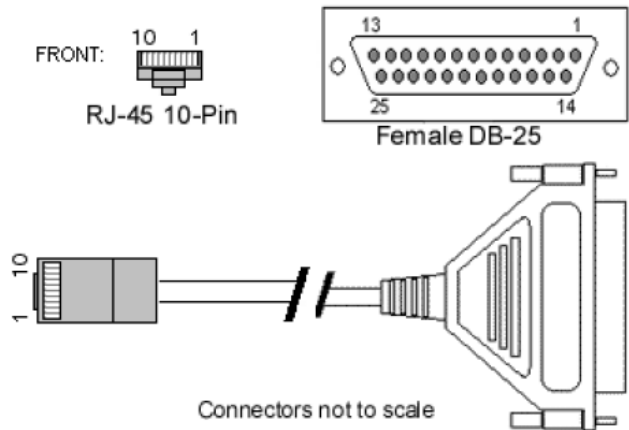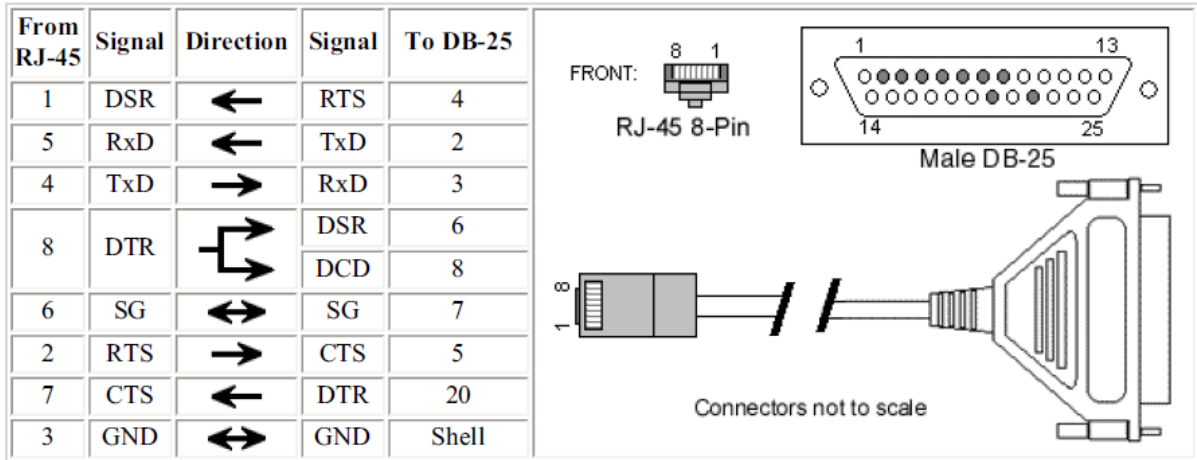FRONT: RJ-45 8-Pin

Male DB-25

Connectors not to scale

* Arrows indicate which direction the signal is flowing.

**Notes:**

- Altpin should be turned on when using this cable so that DTR will drive DCD (standard usage).

- If altpin is turned off, the hardware signal on RJ45 pin 1 becomes DSR instead of DCD. This alternative can be used if DCD is not required, and DSR is needed instead.

- This cable utilizes the DTR signal of the terminal/printer for hardware flow control (RTS/CTS).

- Okidata printers may use SSD (pin 11) instead of DTR (pin 20) on DB25 side of above diagram. If this is the case, the printer should be set to SSD+.

# RJ45 10-pin to DB25M terminal/printer cable

| From RJ-45 | Signal | Direction | Signal | To DB-25 |
|---|---|---|---|---|
| 10 | DCD | ⇆ | DTR | 20 |
| 2 | DSR | | | |
| 6 | RxD | ← | TxD | 2 |
| 5 | TxD | → | RxD | 3 |
| 9 | DTR | ⇉ | DSR | 6 |
| | | | DCD | 8 |
| 7 | SG | ↔ | SG | 7 |
| 3 | RTS | → | CTS | 5 |
| 8 | CTS | ← | RTS | 4 |
| 4 | GND | ↔ | GND | Shell |



FRONT: RJ-45 10-Pin

Male DB-25

Connectors not to scale
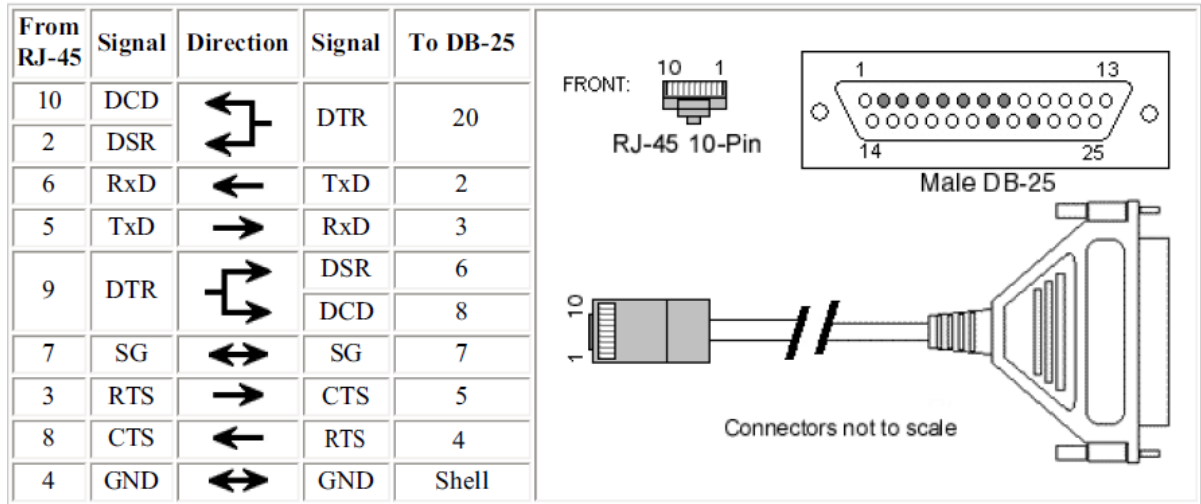
* Arrows indicate which direction the signal is flowing.

This cable can also be purchased from Digi (part: RJ-45 10-pin to DB-25 - Part #76000238)

**Notes:**

■ Altpin should be turned off when using this cable.

■ This cable utilizes the DTR signal of the terminal/printer for hardware flow control (RTS/CTS).
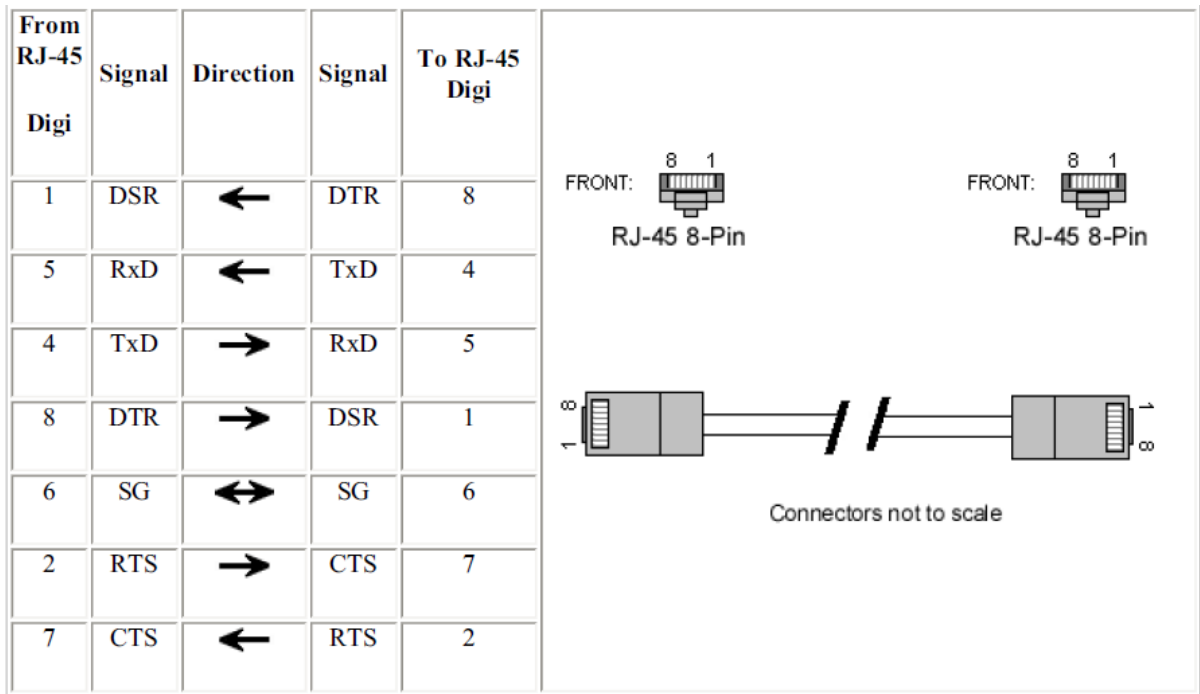
■ Okidata printers may use SSD (pin 11) instead of DTR (pin 20) on DB25 side of above diagram. If this is the case, the printer should be set to SSD+.

# Digi-to-Digi Cables

## Async RJ45 to RJ45 crossover cable - for cross-connecting Digi asynchronous ports together

| From RJ-45 Digi | Signal | Direction | Signal | To RJ-45 Digi |
|---|---|---|---|---|
| 1 | DSR | ← | DTR | 8 |
| 5 | RxD | ← | TxD | 4 |
| 4 | TxD | → | RxD | 5 |
| 8 | DTR | → | DSR | 1 |
| 6 | SG | ↔ | SG | 6 |
| 2 | RTS | → | CTS | 7 |
| 7 | CTS | ← | RTS | 2 |

FRONT: 8 1 RJ-45 8-Pin    FRONT: 8 1 RJ-45 8-Pin

Connectors not to scale

* Arrows indicate which direction the signal is flowing.

## RJ45 to DB9M modem adapter
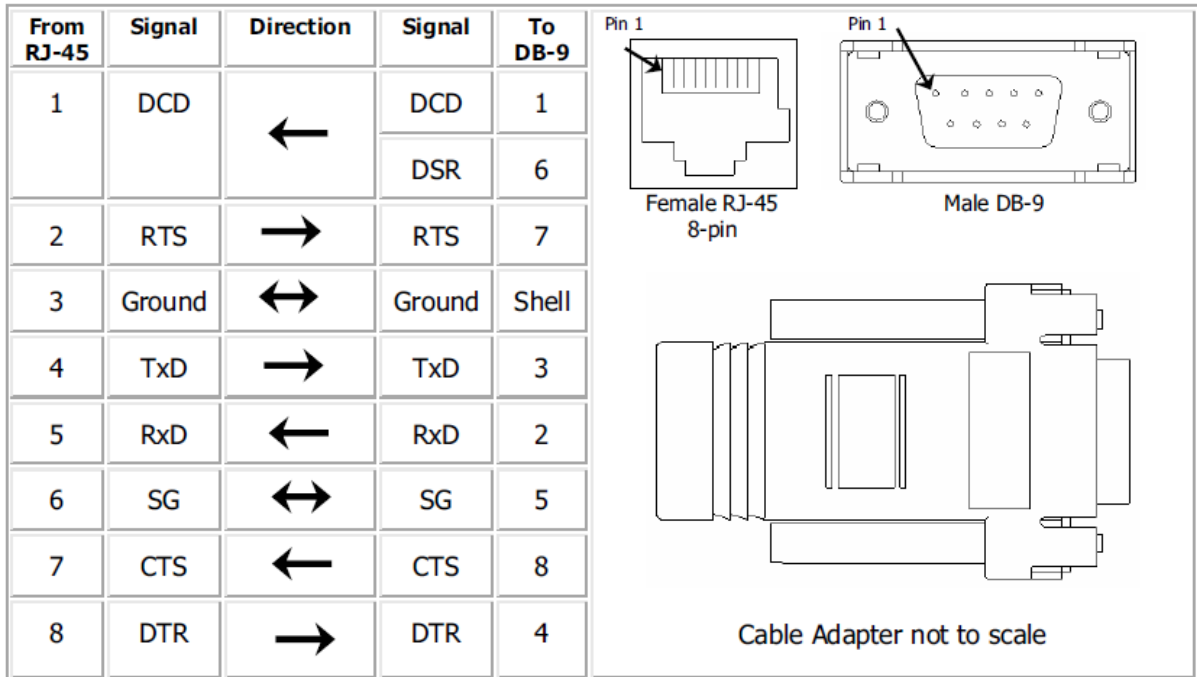
| From RJ-45 | Signal | Direction | Signal | To DB-9 |
|---|---|---|---|---|
| 1 | DCD | ← | DCD | 1 |
|  |  |  | DSR | 6 |
| 2 | RTS | → | RTS | 7 |
| 3 | Ground | ↔ | Ground | Shell |
| 4 | TxD | → | TxD | 3 |
| 5 | RxD | ← | RxD | 2 |
| 6 | SG | ↔ | SG | 5 |
| 7 | CTS | ← | CTS | 8 |
| 8 | DTR | → | DTR | 4 |

Pin 1 — Female RJ-45 8-pin

Pin 1 — Male DB-9

Cable Adapter not to scale

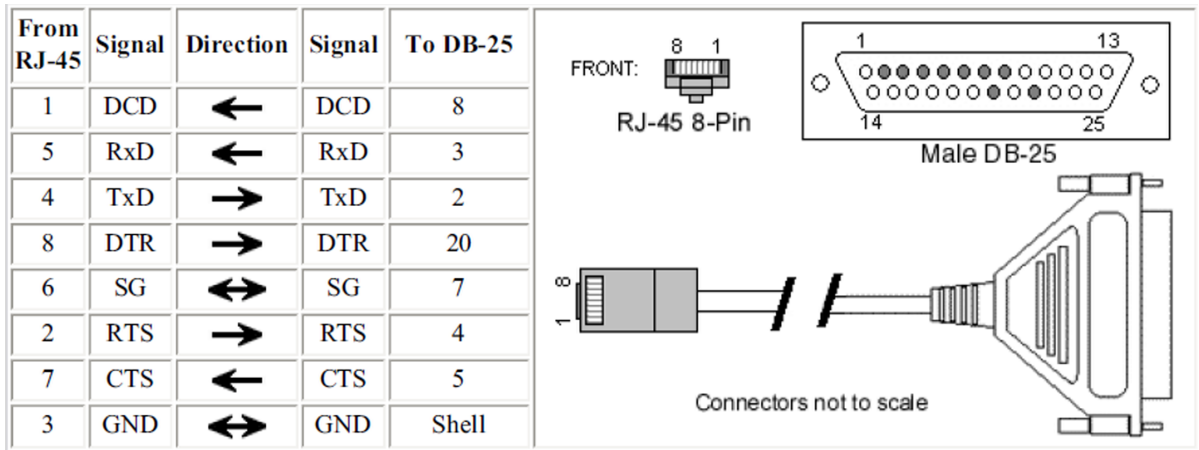\* Arrows indicate which direction the signal is flowing.

**Notes:**

- All RJ45 cable adapters are 8-pin.
- When using this adapter with a modem or other applications that require DCD on pin 1, you must turn on altpin.
- If altpin is turned off, the hardware signal on pin 1 becomes DSR instead of DCD.
- This cable utilizes the CTS signal of the modem for hardware flow control (RTS/CTS).

# DB25 and DB9 modem cables

# RJ45 (Altpin on) to DB25M modem cable

The table shows the wiring diagram for an EIA-232 RJ45 8-pin connector, with Altpin on, to a DB25 modem cable.

| From RJ-45 | Signal | Direction | Signal | To DB-25 |
|---|---|---|---|---|
| 1 | DCD | ← | DCD | 8 |
| 5 | RxD | ← | RxD | 3 |
| 4 | TxD | → | TxD | 2 |
| 8 | DTR | → | DTR | 20 |
| 6 | SG | ↔ | SG | 7 |
| 2 | RTS | → | RTS | 4 |
| 7 | CTS | ← | CTS | 5 |
| 3 | GND | ↔ | GND | Shell |

FRONT: RJ-45 8-Pin   8  1

Male DB-25   1   13   14   25

RJ-45 8-Pin   1  8

Connectors not to scale

\* Arrows indicate which direction the signal is flowing.

**Notes:**

- Altpin should be turned on when using this cable.

- This cable utilizes the CTS signal of the modem for hardware flow control (RTS/CTS).

# RJ45 (Altpin on) to DB9M modem cable

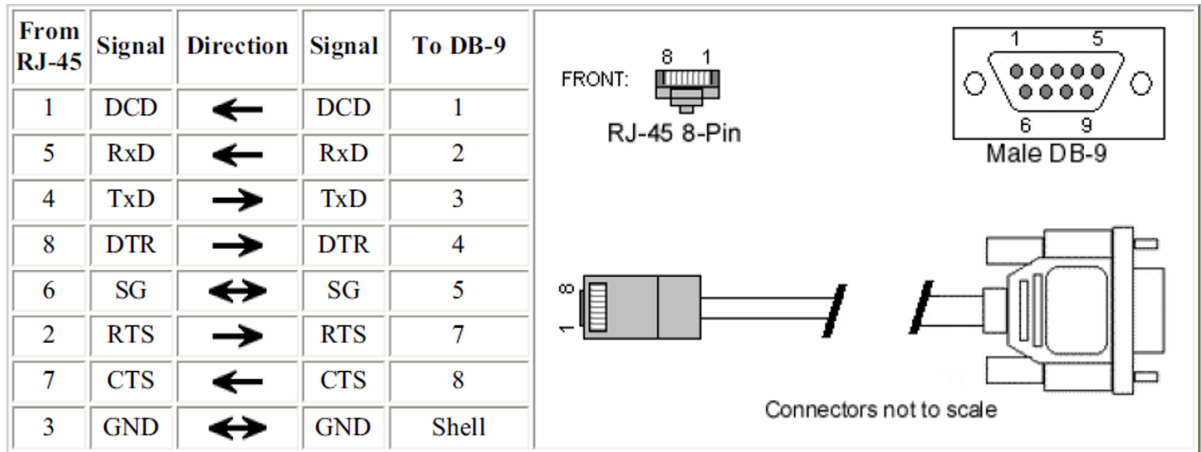The table shows the wiring diagram for an EIA-232 RJ45 8-pin connector, with Altpin on, to a DB9 modem cable.

| From RJ-45 | Signal | Direction | Signal | To DB-9 |
|------------|--------|-----------|--------|---------|
| 1 | DCD | ← | DCD | 1 |
| 5 | RxD | ← | RxD | 2 |
| 4 | TxD | → | TxD | 3 |
| 8 | DTR | → | DTR | 4 |
| 6 | SG | ↔ | SG | 5 |
| 2 | RTS | → | RTS | 7 |
| 7 | CTS | ← | CTS | 8 |
| 3 | GND | ↔ | GND | Shell |

FRONT: RJ-45 8-Pin

Male DB-9

Connectors not to scale

\* Arrows indicate which direction the signal is flowing.

**Notes:**

- Altpin should be turned on when using this cable.
- This cable utilizes the CTS signal of the modem for hardware flow control (RTS/CTS).

## RJ45 10-pin to DB9M modem cable

| From RJ-45 | Signal | Direction | Signal | To DB-9 |
|---|---|---|---|---|
| 10 | DCD | ← | DCD | 1 |
| 6 | RxD | ← | RxD | 2 |
| 5 | TxD | → | TxD | 3 |
| 9 | DTR | → | DTR | 4 |
| 7 | SG | ↔ | SG | 5 |
| 2 | DSR | ← | DSR | 6 |
| 3 | RTS | → | RTS | 7 |
| 8 | CTS | ← | CTS | 8 |
| 1 | RI | ← | RI | 9 |
| 4 | GND | ↔ | GND | Shell |

FRONT:
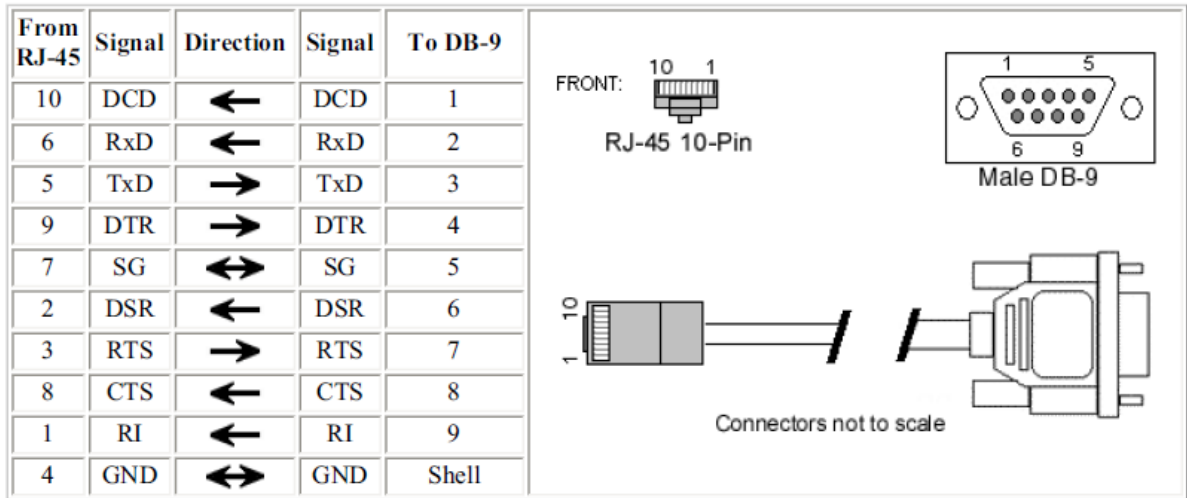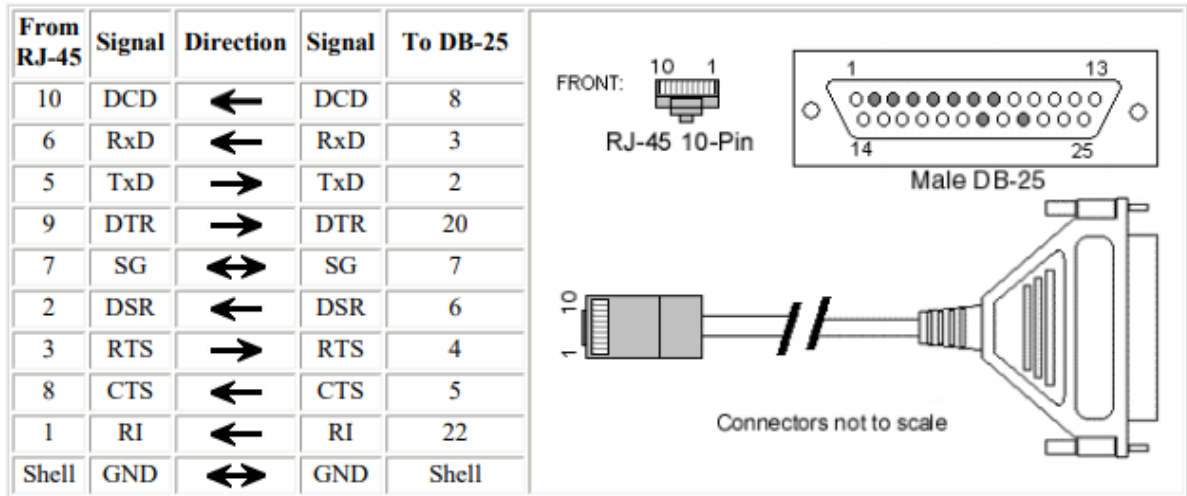
RJ-45 10-Pin

Male DB-9

Connectors not to scale

\* Arrows indicate which direction the signal is flowing.

**Notes:**

- Altpin should be turned off when using this cable.

- This cable utilizes the CTS signal of the modem for hardware flow control (RTS/CTS).

# RJ45 10-pin to DB25M modem cable

| From RJ-45 | Signal | Direction | Signal | To DB-25 |
|---|---|---|---|---|
| 10 | DCD | ← | DCD | 8 |
| 6 | RxD | ← | RxD | 3 |
| 5 | TxD | → | TxD | 2 |
| 9 | DTR | → | DTR | 20 |
| 7 | SG | ↔ | SG | 7 |
| 2 | DSR | ← | DSR | 6 |
| 3 | RTS | → | RTS | 4 |
| 8 | CTS | ← | CTS | 5 |
| 1 | RI | ← | RI | 22 |
| Shell | GND | ↔ | GND | Shell |

FRONT: RJ-45 10-Pin

Male DB-25

Connectors not to scale

\* Arrows indicate which direction the signal is flowing.

This cable can be purchased from Digi:

- 4' RJ-45 10-pin to DB25 pin: part #76000195

**Notes:**

- Altpin should be turned off when using this cable.

- This cable utilizes the CTS signal of the modem for hardware flow control (RTS/CTS).

# Specialty cables

# Cisco console cables

## Digi RJ45 to RJ45 cable adapters: 8-pin

RJ45 to RJ45 cable adapters can be purchased from Digi. These adapters consist of an 8-pin RJ45 plug connected to another 8-pin RJ45 plug with a crossover cable. These cables are used to connect the Digi devices to the serial console port of Cisco and Sun Netra devices. Pinout information and a graphic is included later in this chapter. See Digi RJ45 to RJ45 cable adapters: 8-pin for pinout and graphic information.
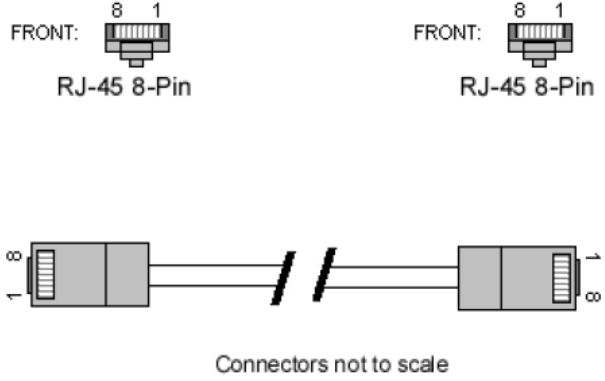
**Part numbers for RJ45 to RJ45 8-pin crossover cable for Cisco & Sun Netra**

| Cable description | Part # | Cable identifier |
|---|---|---|
| Cable RJ45 to RJ45 8-pin (single pack) | 76000631 | 63000222-02 |

## RJ45 (Altpin On) to RJ45 Cisco console adapter

The wiring diagram for an Altpin RJ-45 8-pin to a Cisco Console RJ-45 8-pin adapter cable is shown in the following table.

**Table 1: EIA-232 Altpin RJ-45 to RJ-45**

| From RJ-45 | Signal | Direction | Signal | To RJ-45 Cisco |
|---|---|---|---|---|
| 1 | DCD | ← | DTR | 2 |
| 5 | RxD | ← | TxD | 3 |
| 4 | TxD | → | RxD | 6 |
| 8 | DTR | → | DSR | 7 |
| 6 | SG | ↔ | SG | 5 |
| 2 | RTS | → | CTS | 8 |
| 7 | CTS | ← | RTS | 1 |
| 3 | GND | ↔ | GND | 4 |

FRONT: RJ-45 8-Pin      FRONT: RJ-45 8-Pin

Connectors not to scale

* Arrows indicate which direction the signal is flowing.

**Notes:**

- Works for most current Cisco routers.
- Be careful not to swap cable ends. One end will go to DIGI and the other to the router.
- Altpin should be turned on when using this cable.