

5-in-1 V.35 Assembly and Pinouts

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Introduction

This document explains the V.35 serial cable assembly and pinouts.

Prerequisites

Requirements

There are no specific requirements for this document.

Components Used

This document is not restricted to specific software and hardware versions.

The information in this document was created from the devices in a specific lab environment. All of the devices used in this document started with a cleared (default) configuration. If your network is live, make sure that you understand the potential impact of any command.

Conventions

For more information on document conventions, refer to the Cisco Technical Tips Conventions.

V.35 Speed and Distance Limitations

The table here lists the different V.35 speed and distance limitations:



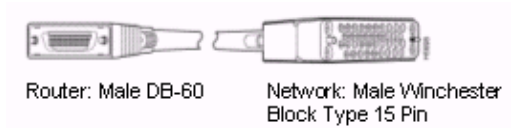
Caution: The EIA, TIA-449 and V.35 interfaces support data rates up to 2.048 Mbps. Cisco advises not to exceed this maximum as it could result in loss of data.

| Data Rate (Baud) | Distance (Feet) | Distance (Meters) |
|------------------|-----------------|-------------------|
| 2400 | 4,100 | 1,250 |
| 4800 | 2,050 | 625 |

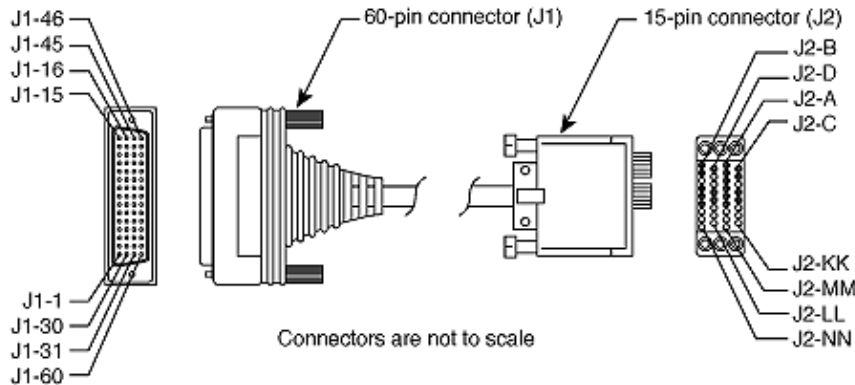
| | | |
|-------|-------|-----|
| 9600 | 1,025 | 312 |
| 19200 | 513 | 156 |
| 38400 | 256 | 78 |
| 56000 | 102 | 31 |
| T1 | 50 | 15 |

CAB-V35MT Serial Cable Assembly

The cable gender for this product (part number 72-0791-01) is male DB-60 to male Winchester 15 Pin, mode – DTE.



The CAB-V35MT serial cable is used in the Cisco 7000 family, Cisco 4000 series, Cisco 3600 series, Cisco 2500 series, Cisco 1600 series, Cisco access servers, and AccessPro PC cards. This cable has a male DB-60 connector on the Cisco end and a male Winchester connector on the network end.



V.35 DTE Cable Pinouts (DB-60 to 34-Pin)

The table here shows the V.35 DTE cable pinouts (DB-60 to 34-Pin).

Note: The arrows indicate signal direction:

- ----> indicates DTE to DCE
- <---- indicates DCE to DTE

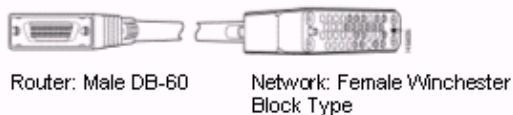
| 60 Pin ¹ | Signal | Description | Direction | 34 Pin | Signal |
|---------------------|--------|----------------------|-----------|--------|--------|
| J1-49 | | | | | |
| J1-48 | MODE_1 | Shorting | | | |
| J1-50 | MODE_0 | Group Shorting Group | --- | --- | --- |
| J1-51 | GND | | | | |

| | | | | | |
|-------|------------------------------|------------------------|-----------|----------------|-------------|
| J1-52 | MODE_DCE | | | | |
| J1-53 | | | | | |
| J1-54 | | | | | |
| J1-55 | TxC/NIL | | | | |
| J1-56 | RxC_TxCE | Shorting | | | |
| J1-46 | RxD/TxD Shield_GND | Group Single | | J2-A | Frame_GND |
| J1-45 | GND Shield Circuit_GND | Twisted | -- | J2-B | Circuit_GND |
| J1-42 | -- Shield RTS/CTS | pair no. 12 Twisted | -- --> | Shield J2-C | -- RTS |
| J1-35 | -- Shield CTS/RTS | pair no. 9 Twisted | -- <-- | Shield J2-D | -- CTS |
| J1-34 | -- Shield DSR/DTR | pair no. 8 Twisted | -- <-- | Shield J2-E | -- DSR |
| J1-33 | -- Shield DCD/LL | pair no. 7 Twisted | -- <-- | Shield J2-F | -- RLSD |
| J1-43 | -- Shield DTR/DSR | pair no. 6 Twisted | -- --> | Shield J2-H | -- DTR |
| J1-44 | -- Shield LL/DCD | pair no. 10 Twisted | -- --> | Shield J2-K | -- LT |
| J1-18 | -- | pair no. 11 | -- | Shield | -- |
| J1-17 | TxD/RxD+ | Twisted | --> | J2-P | SD+ |
| J1-28 | TxD/RxD-- | pair no. 1 | --> | J2-S | SD-- |
| J1-27 | RxD/TxD+ | Twisted | <-- | J2-R | RD+ |
| J1-20 | RxD/TxD-- | pair no. 5 | <-- | J2-T | RD-- |
| J1-19 | TxCE/TxC+ | Twisted | --> | J2-U | SCTE+ |
| J1-26 | TxCE/TxC-- | pair no. 2 | --> | J2-W | SCTE-- |
| J1-25 | RxC/TxCE+ | Twisted | <-- | J2-V | SCR+ |
| J1-24 | RxC/TxCE-- | pair no. 4 | <-- | J2-X | SCR-- |
| J1-23 | TxC/RxC+ | Twisted | <-- | J2-Y | SCT+ |
| | TxC/RxC-- | pair no. 3 | <-- | J2-AA | SCT-- |

¹Any pin not referenced is not connected.

CAB-V35FC Serial Cable Assembly

The cable gender for this product (part number 72-0792-01) is male DB-60 to female Winchester Block Type, mode – DCE.



The CAB-V35FC serial cable is used in the Cisco 7000 family, Cisco 4000 series, Cisco 3600 series, Cisco 2500 series, Cisco 1600 series, Cisco access servers, and AccessPro PC cards. This cable has a male DB-60 connector on the Cisco end and a female Winchester connector on the network end.

V.35 DCE Cable Pinouts (DB-60 to 34-Pin)

The table here shows the V.35 DCE cable pinouts (DB-60 to 34-Pin).

Note: The arrows indicate signal direction:

- ----> indicates DTE to DCE
- <---- indicates DCE to DTE

| 60 Pin ¹ | Signal | Description | Direction | 34 Pin | Signal |
|---------------------|------------|----------------|-----------|--------|-------------|
| J1-49 | MODE_1 | Shorting Group | --- | --- | --- |
| J1-48 | | | | | |
| J1-50 | MODE_0 | Shorting Group | --- | --- | --- |
| J1-51 | | | | | |
| J1-53 | TxC/NIL | Shorting Group | --- | --- | --- |
| J1-54 | | | | | |
| J1-55 | | | | | |
| J1-56 | | | | | |
| J1-46 | RxD/TxD | Group | --- | J2-A | Frame_GND |
| J1-45 | Shield_GND | Single | --- | J2-B | Circuit_GND |
| J1-35 | --- | pair no. 12 | --- | Shield | --- |
| J1-42 | CTS/RTS | Twisted | <--- | J2-C | RTS |
| J1-42 | --- | pair no. 8 | --- | Shield | --- |
| J1-43 | RTS/CTS | Twisted | ---> | J2-D | CTS |
| J1-43 | DTR/DSR | pair no. 9 | ---> | Shield | DSR |

| | | | | | |
|--------|-------------|---------------------|------|--------|---------|
| Shield | --- | Twisted pair no. 10 | --- | Shield | --- |
| J1-44 | | | | | |
| Shield | LL/DCD | Twisted pair no. 11 | --> | J2-F | RLSD |
| J1-34 | --- | | --- | Shield | --- |
| Shield | DSR/DTR | Twisted pair no. 7 | <--- | J2-H | DTR |
| J1-33 | --- | | --- | Shield | --- |
| Shield | DCD/LL | Twisted pair no. 6 | <--- | J2-K | LT |
| J1-28 | --- | | --- | Shield | --- |
| J1-27 | RxD/TxD+ | Twisted pair no. 5 | <--- | J2-P | SD+ |
| J1-18 | RxD/TxD--- | | <--- | J2-S | SD--- |
| J1-17 | TxD/RxD+ | Twisted pair no. 1 | --> | J2-R | RD+ |
| J1-26 | TxD/RxD--- | | --> | J2-T | RD--- |
| J1-25 | RxC/TxCE+ | Twisted pair no. 4 | <--- | J2-U | SCTE+ |
| J1-22 | RxC/TxCE--- | | <--- | J2-W | SCTE--- |
| J1-21 | NIL/RxC+ | Twisted pair no. 3 | --> | J2-V | SCR+ |
| J1-20 | NIL/RxC--- | | --> | J2-X | SCR--- |
| J1-19 | TxCE/TxC+ | Twisted pair no. 2 | --> | J2-Y | SCT+ |

TxCE/TxC--- pair no. 2 --> J2-AA SCT---

¹Any pin that is not referenced is not connected.

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