

# 5-in-1 V.35 Assembly and Pinouts

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### Related Information

## 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:



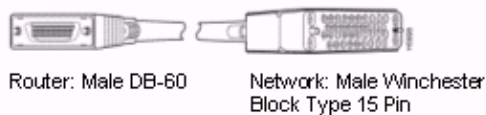
**Caution:** The EIA, TIA-449 and V.35 interfaces support data rates up to 2.048 Mbps. Cisco advises not to exceed this maximum as it could result in loss of data.

Data Rate (Baud)	Distance (Feet)	Distance (Meters)
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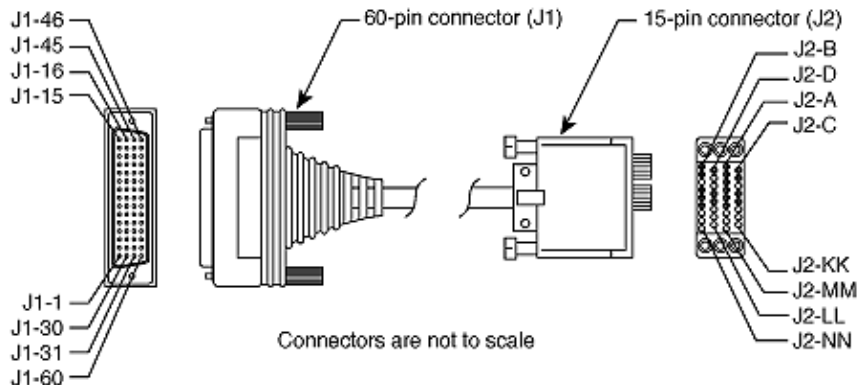
2400	4,100	1,250
4800	2,050	625
9600	1,025	312
19200	513	156
38400	256	78
56000	102	31
T1	50	15

## 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 <sup>1</sup>	Signal	Description	Direction	34 Pin	Signal
J1-49					
J1-48	MODE_1	Shorting			
J1-50	GND MODE_0	Group Shorting	--	--	--

J1-51	GND	Group			
J1-52	MODE_DCE				
J1-53					
J1-54					
J1-55	TxC/NIL				
J1-56	RxC_TxCE	Shorting			
J1-46	RxD/TxD	Group			
J1-45	Shield	Single		J2-A	Frame_GND
J1-45	Circuit_GND	Twisted pair		J2-B	Circuit_GND
J1-42	--	no. 12		Shield	--
J1-42	RTS/CTS	Twisted pair	>---	J2-C	RTS
J1-35		no. 9		Shield	
J1-35	CTS/RTS	Twisted pair	<---	J2-D	CTS
J1-34		no. 8		Shield	
J1-34	DSR/DTR	Twisted pair	<---	J2-E	DSR
J1-33		no. 7		Shield	
J1-33	DCD/LL	Twisted pair	<---	J2-F	RLSD
J1-43		no.6		Shield	
J1-43	DTR/DSR	Twisted pair	>---	J2-H	DTR
J1-44		no. 10		Shield	
J1-44	LL/DCD	Twisted pair	>---	J2-K	LT
J1-18		no. 11		Shield	
J1-17	TxD/RxD+	Twisted pair	>-->	J2-P	SD+ SD
J1-28	TxD/RxD--	no. 1		J2-S	
J1-27	RxD/TxD+	Twisted pair	<--<	J2-R	RD+ RD
J1-20	RxD/TxD--	no. 5		J2-T	
J1-19	TxCE/TxC+	Twisted pair	>-->	J2-U	SCTE+
J1-26	TxCE/TxC--	no. 2		J2-W	SCTE--
J1-25	RxC/TxCE+	Twisted pair	<--<	J2-V	SCR+ SCR
J1-24	RxC/TxCE--	no. 4		J2-X	
J1-23	TxC/RxC+	Twisted pair	<--<	J2-Y	SCT+ SCT
	TxC/RxC--	no. 3		J2-AA	

<sup>1</sup>Any 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.



Router: Male DB-60

Network: Female Winchester Block Type

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 <sup>1</sup>	Signal	Description	Direction	34 Pin	Signal
J1-49 J1-48	MODE_1	Shorting			
J1-50 J1-51	GND MODE_0	Group Shorting			
J1-53 J1-54	GND	Group			
J1-55 J1-56	TxC/NIL RxC_TxCE	Shorting			
J1-46	RxD/TxD	Group			
J1-45	Shield	Single		J2-A	Frame GND
J1-35	Shield	Circuit_GND		J2-B	Circuit_GND
J1-42	Shield	no. 12		Shield	
J1-43	Shield	CTS/RTS	<----	J2-C	RTS
J1-44	Shield	no. 8		Shield	
J1-34	Shield	RTS/CTS	>----	J2-D	CTS
J1-33	Shield	no. 9		Shield	
J1-28	Shield	DTR/DSR	>----	J2-E	DSR
J1-27	Shield	no. 10		Shield	
J1-18	Shield	LL/DCD	>----	J2-F	RLSD
J1-17	Shield	no. 11		Shield	
J1-26	Shield	DSR/DTR	<----	J2-H	DTR
J1-25	Shield	no.7		Shield	
J1-22	Shield	DCD/LL	<----	J2-K	LT
J1-21	Shield	no. 6		Shield	
J1-20	RxD/TxD+	Twisted pair	<<----	J2-P	SD+ SD
J1-19	RxD/TxD--	no. 5		J2-S	
J1-18	TxD/RxD+	Twisted pair	>>----	J2-R	RD+ RD
J1-17	TxD/RxD--	no. 1		J2-T	
J1-26	RxC/TxCE+	Twisted pair	<<----	J2-U	SCTE+
J1-25	RxC/TxCE--	no. 4		J2-W	SCTE--
J1-22	NIL/RxC+	Twisted pair	>>----	J2-V	SCR+ SCR
J1-21	NIL/RxC--	no. 3		J2-X	
J1-20	TxCE/TxC+	Twisted pair	--> -->	J2-Y	SCT+ SCT--

<sup>1</sup>Any pin that is not referenced is not connected.

## Related Information

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