

# CAB-232MT and CAB-232FC EIA/TIA-232 Serial Cable Specifications

Document ID: 46800

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## Introduction

This document provides the technical specifications for the EIA/TIA-232 serial cables.

## 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, see the Cisco Technical Tips Conventions.

## EIA/TIA-232 Speed and Distance Limitations

As with all signaling systems, EIA/TIA-232 signals can travel a limited distance at any given bit rate; generally, the slower the data rate, the greater the distance.

The table below gives the EIA/TIA-232 speed and distance limitations.

Data Rate (Baud)	Distance (Feet)	Distance (Meters)
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2400	200	60
4800	100	30
9600	50	15
19200	50	15
38400	50	15
57600	25	7.6
115200	12	3.7

## Serial Cable CAB-232MT

This section presents the cable assembly and pinouts for the CAB-232MT serial cable.

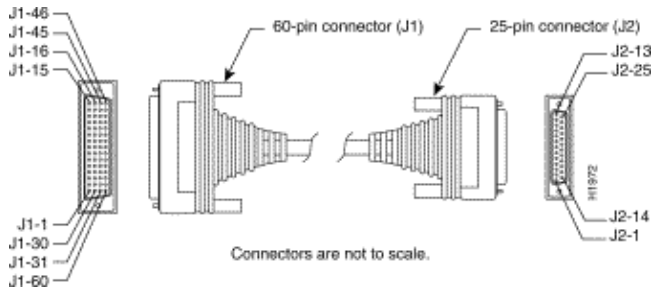
**Note:** The cable itself identifies the Cisco router as a data terminal equipment (DTE) or data communications equipment (DCE) device to other devices in the network; for this reason, it is important to select the correct product number from the table below.



The cable gender for this product (part number 72-0793-01) is Male – Male, mode – DTE.

The CAB-232MT 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 DB-25 connector on the network end.

## EIA/TIA-232 Serial Cable Assembly



## EIA/TIA-232 DTE Cable Pinouts

The table below shows the EIA/TIA-232 **DTE** cable pinouts (DB-60 to DB-25).

**Note:** The arrows indicate signal direction:

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

60 Pin <sup>1</sup>	Signal	Description	Direction	25 Pin	Signal
J1-50	MODE_0	Shorting group	—	—	—

J1-51	GND				
J1-52	MODE_DCE				
J1-46	Shield GND	Single	-	J2-1	Shield GND
J1-41	TxD/RxD	Twisted pair	---->	J2-2	TxD
J1-36	RxD/TxD	Twisted pair	<----	J2-3	RxD
J1-42	RTS/CTS	Twisted pair	---->	J2-4	RTS
J1-35	CTS/RTS	Twisted pair	<----	J2-5	CTS
J1-34	DSR/DTR	Twisted pair	<----	J2-6	DSR
J1-45	Circuit GND	Twisted pair	-	J2-7	Circuit GND
J1-33	DCD/LL	Twisted pair	<----	J2-8	DCD
J1-37	TxC/NIL	Twisted pair	<----	J2-15	TxC
J1-38	RxC/TxCE	Twisted pair	<----	J2-17	RxC
J1-44	LL/DCD	Twisted pair	---->	J2-18	LTST
J1-43	DTR/DSR	Twisted pair	---->	J2-20	DTR
J1-39	TxCE/TxC	Twisted pair	---->	J2-24	TxCE
		no. 6	-	Shield	-

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

# Serial Cable CAB-232FC

This section presents the cable assembly and pinouts for the CAB-232FC serial cable.

The cable gender for this product (part number 72-0794-01) is Male DB-60 to Female DB-25, mode – DCE.



This cable is used in the following systems: 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 DB-25 connector on the network end.

## EIA/TIA-232 DCE Cable Pinouts (DB-60 to DB-25)

The table below shows the EIA/TIA-232 DCE cable pinouts (DB-60 to DB-25).

**Note:** The arrows indicate signal direction:

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

60 Pin	Signal	Description	Direction	25 Pin	Signal
J1-50					
J1-51	MODE_0	Shorting			
J1-46	Shield GND	group Single	–	J2-1	Shield GND
J1-36	RxD/TxD	Twisted pair	<----	J2-2	TxD
J1-41	–	no. 9	–	Shield	–
Shield	TxD/RxD	Twisted pair	---->	J2-3	RxD
J1-35	–	no. 5	–	Shield	–
Shield	CTS/RTS	Twisted pair	<----	J2-4	RTS
J1-42	–	no. 10	–	Shield	–
Shield	RTS/CTS	Twisted pair	---->	J2-5	CTS
J1-43	–	no. 4	–	Shield	–
Shield	DTR/DSR	Twisted pair	---->	J2-6	DSR
J1-45	–	no. 3	–	Shield	–
Shield	Circuit GND	Twisted pair no. 1	–	J2-7	Circuit GND
J1-44	̄LL/DCD		---->	Shield J2-8	DCD

Shield	-	Twisted pair no. 2	-	Shield	-
J1-39 Shield	TxCE/TxC	Twisted pair	---->	J2-15	TxC
J1-40 Shield	- NIL/RxC	no. 7 Twisted pair	- ---->	Shield J2-17	- RxC
J1-33 Shield	- DCD/LL	no. 6 Twisted pair	- <----	Shield J2-18	- LTST
J1-34 Shield	- DSR/DTR	no. 12 Twisted pair	- <----	Shield J2-20	- DTR
J1-38 Shield	- RxC/TxCE	no. 11 Twisted pair	- <----	Shield J2-24	- TxCE
	-	no. 8	-	Shield	-

## Related Information

- **Technical Support – Cisco Systems**

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Updated: Jan 30, 2006

Document ID: 46800

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