

CAB-449MT and CAB-449FC EIA/TIA-449 Serial Cable Specifications

Document ID: 46801

Introduction

Prerequisites

Requirements

Components Used

Conventions

EIA/TIA-449 Speed and Distance Limitations

Serial Cable CAB-449MT

EIA/TIA-449 Serial Cable Assembly

EIA/TIA-449 DTE Cable Pinouts

Serial Cable CAB-449FC

EIA/TIA-449 DCE Cable Pinouts (DB-60 to DB-37)

Related Information

Introduction

This document provides the technical and cable specifications for the EIA/TIA-449 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-449 Speed and Distance Limitations

The use of balanced drivers allows EIA/TIA-449 signals to travel greater distances than the EIA/TIA-232 standard. The table below lists the standard relationship between baud rate and maximum distance for EIA/TIA-449 signals. These limits are also valid for V.35 and X.21.

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

Caution: The EIA/TIA-449 and V.35 interfaces support data rates up to 2.048 Mbps. Exceeding this maximum could result in loss of data and is not recommended.

Serial Cable CAB-449MT

This section presents the cable assembly and pinouts for the CAB-449MT serial cable.

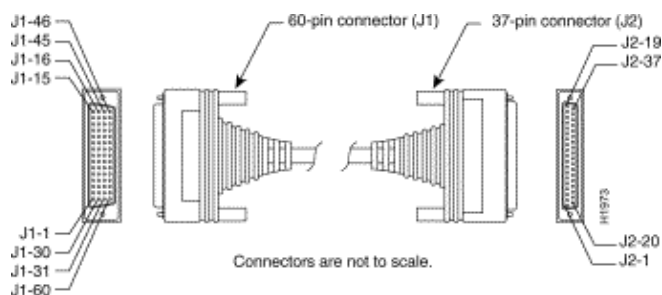
Note: The cable itself identifies the Cisco router as a data terminal equipment (DTE) or data communications equipment (DCE) device to other devices in the network; for this reason, it is important to select the correct product number from the table below.



The cable gender for this product (part number 72-0795-01) is Male DB-60 to Male DB-37, mode – DTE.

The CAB-449MT 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-37 connector on the network end.

EIA/TIA-449 Serial Cable Assembly



EIA/TIA-449 DTE Cable Pinouts

The table below shows the EIA/TIA-449 **DTE** cable pinouts (DB-60 to DB-37).

Note: The arrows indicate signal direction:

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

Signal	Description	Direction	Signal
--------	-------------	-----------	--------

60 Pin ¹				25 Pin	
J1-49					
J1-48	MODE_1	Shorting			
J1-51	GND	group			
J1-52	GND	Shorting			
J1-46	MODE_DCE Shield_GND	group Single	-	J2-1	Shield GND
J1-11					
J1-12	TxD/RxD+	Twisted pair	---->	J2-4	SD+
J1-24	TxD/RxD-	no. 6	---->	J2-22	SD-
J1-23	TxC/RxC+	Twisted pair	<----	J2-5	ST+
J1-28	TxC/RxC-	no. 9	<----	J2-23	ST-
J1-27	RxD/TxD+	Twisted pair	<----	J2-6	RD+
J1-9	RxD/TxD-	no. 11	<----	J2-24	RD-
J1-10	RTS/CTS+	Twisted pair	---->	J2-7	RS+
J1-26	RTS/CTS-	no. 5	---->	J2-25	RS-
J1-25	RxC/TxCE+	Twisted pair	<----	J2-8	RT+
J1-1	RxC/TxCE-	no. 10	<----	J2-26	RT-
J1-2	CTS/RTS+	Twisted pair	<----	J2-9	CS+
J1-44	CTS/RTS-	no. 1	<----	J2-27	CS-
J1-45	LL/DCD	Twisted pair	---->	J2-10	LL
J1-3	Circuit_GND	no. 12	-	J2-37	SC
J1-4	DSR/DTR+	Twisted pair	<----	J2-11	DM+
J1-7	DSR/DTR-	no. 2	<----	J2-29	DM-
J1-8	DTR/DSR+	Twisted pair	---->	J2-12	TR+
J1-5	DTR/DSR-	no. 4	---->	J2-30	TR-
J1-6	DCD/DCD+	Twisted pair	<----	J2-13	RR+
J1-13	DCD/DCD-	no. 3	<----	J2-31	RR-
J1-14	TxCE/TxC+	Twisted pair	---->	J2-17	TT+
J1-15	TxCE/TxC-	no. 7	---->	J2-35	TT-
J1-16	Circuit_GND	Twisted pair	-	J2-19	SG
	Circuit_GND	no. 9	-	J2-20	RC

¹Any pin not referenced is not connected.

Serial Cable CAB-449FC

This section presents the cable assembly and pinouts for the CAB-449FC serial cable.

The cable gender for this product (part number 72-0796-01) is Male DB-60 to Female DB-37, 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-37 connector on the network end.

EIA/TIA-449 DCE Cable Pinouts (DB-60 to DB-37)

The table below shows the EIA/TIA-449 DCE cable pinouts (DB-60 to DB-37).

Note: The arrows indicate signal direction:

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

60 Pin ¹	Signal	Description	Direction	25 Pin	Signal
J1-49					
J1-48	MODE_1	Shorting			
J1-46	GND Shield_GND	group Single	-	J2-1	Shield GND
J1-28					
J1-27	RxD/TxD+	Twisted pair	<---	J2-4	SD+
J1-13	RxD/TxD-	no. 11	<---	J2-22	SD-
J1-14	TxCE/Tx+	Twisted pair	--->	J2-5	ST+
J1-11	TxCE/Tx-	no. 7	--->	J2-23	ST-
J1-12	TxD/RxD+	Twisted pair	--->	J2-6	RD+
J1-1	TxD/RxD-	no. 6	--->	J2-24	RD-
J1-2	CTS/RTS+	Twisted pair	<---	J2-7	RS+
J1-24	CTS/RTS-	no. 1	<---	J2-25	RS-
J1-23	TxC/RxC+	Twisted pair	--->	J2-8	RT+
	TxC/RxC-	no. 9	--->	J2-26	RT-

J1-9					
J1-10	RTS/CTS+	Twisted pair	---->	J2-9	CS+
J1-29	RTS/CTS-	no. 5	---->	J2-27	CS-
J1-30	NIL/LL	Twisted pair	---->	J2-10	LL
J1-7	Circuit_GND	no. 12	-	J2-37	SC
J1-8	DTR/DSR+	Twisted pair	---->	J2-11	DM+
J1-3	DTR/DSR-	no. 4	---->	J2-29	DM-
J1-4	DSR/DTR+	Twisted pair	<----	J2-12	TR+
J1-5	DSR/DTR-	no. 2	<----	J2-30	TR-
J1-6	DCD/DCD+	Twisted pair	---->	J2-13	RR+
J1-26	DCD/DCD-	no. 3	---->	J2-31	RR-
J1-25	RxC/TxCE+	Twisted pair	<----	J2-17	TT+
J1-15	RxC/TxCE-	no. 10	<----	J2-35	TT-
J1-16	Circuit_GND	Twisted pair	-	J2-19	SG

Circuit_GND no. 8 - J2-20 RC

Related Information

- **Technical Support – Cisco Systems**

All contents are Copyright © 2006–2007 Cisco Systems, Inc. All rights reserved. Important Notices and Privacy Statement.

Updated: Jan 30, 2006

Document ID: 46801

Free Manuals Download Website

<http://myh66.com>

<http://usermanuals.us>

<http://www.somanuals.com>

<http://www.4manuals.cc>

<http://www.manual-lib.com>

<http://www.404manual.com>

<http://www.luxmanual.com>

<http://aubethermostatmanual.com>

Golf course search by state

<http://golfingnear.com>

Email search by domain

<http://emailbydomain.com>

Auto manuals search

<http://auto.somanuals.com>

TV manuals search

<http://tv.somanuals.com>