

CAB-X21MT and CAB-X21FC Serial Cable Specifications

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Introduction

This document explains the technical and cable specifications of the CAB-X21MT and CAB-X21FC 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](#).

X.21 Speed and Distance Limitations

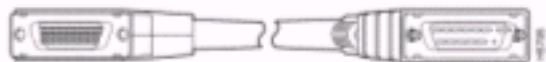
The table below lists the different X.21 speed and distance limitations.

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-X21MT Serial Cable and Assembly

The cable gender for the CAB-X21MT serial cable (part number 72-0789-01) is Male DB-60 to Male DB-15, mode - DTE.

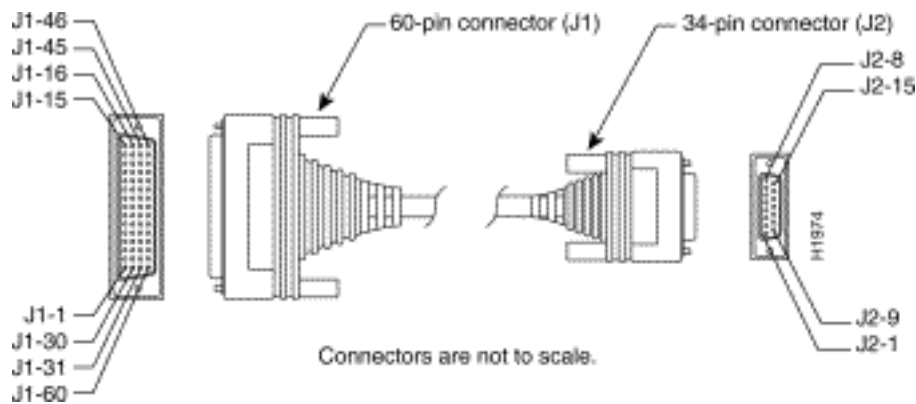
Note: The cable itself identifies the Cisco router as a DTE or DCE device to other devices in the network; for this reason, it is important to select the correct product number from the table below.



Router: Male DB-60

Network: Male DB-15

The CAB-X21MT 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 DB-15 connector on the network end.



X.21 DTE Cable Pinouts (DB-60 to DB-15)

The table below shows the X.21 **DTE** cable pinouts (DB-60 to DB-15).

Note: The arrows indicate signal direction:

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

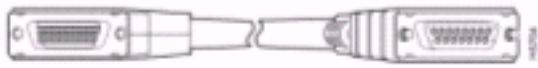
60 Pin ¹	Signal	Description	Direction	15 Pin	Signal
J1-48	GND	Shorting Group	--	--	--
J1-47	MODE_2				
J1-51	GND	Shorting Group	--	--	--
J1-52	MODE_DCE				
J1-46	Shield_GND	Single	--	J2-1	Shield GND
J1-11	TxD/RxD+	Twisted pair no. 3	--->	J2-2	Transmit+
J1-12	TxD/RxD-				
J1-9	RTS/CTS+	Twisted pair no. 2	--->	J2-3	Control+
J1-10	RTS/CTS-				
J1-28	RxD/TxD+	Twisted pair no. 6	<---	J2-4	Receive+
J1-27	RxD/TxD-				
J1-1	CTS/RTS+	Twisted pair no. 1	<---	J2-5	Indication+
J1-2	CTS/RTS-				
J1-26	RxC/TxCE+	Twisted pair no. 5	<---	J2-6	Timing+
J1-25	RxC/TxCE-				

J1-15	Control_GND	Twisted	--	J2-8	Control_GND
Shield	--	pair no. 4	--	Shield	--

¹Any pin not referenced is not connected.

CAB-X21FC Serial Cable and Assembly

The cable gender for the CAB-X21FC serial cable (part number 72-0790-01) is Male DB-60 to Female DB-15, mode - DCE.



Router: Male DB-60

Network: Female DB-15

The CAB-X21FC 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 DB-15 connector on the network end.

X.21 DCE Cable Pinouts (DB-60 to DB-15)

The table below shows the X.21 **DCE** cable pinouts (DB-60 to DB-15).

Note: The arrows indicate signal direction:

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

60 Pin ¹	Signal	Description	Direction	15 Pin	Signal
J1-48	GND	Shorting Group	--	--	--
J1-47	MODE_2				
J1-46	Shield_GND	Single	--	J2-1	Shield GND
J1-28	RxD/TxD+	Twisted pair no. 6	<---	J2-2	Transmit+
J1-27	RxD/TxD-			J2-9	Transmit-
J1-1	CTS/RTS+	Twisted pair no. 1	<---	J2-3	Control+
J1-2	CTS/RTS-			J2-10	Control-
J1-11	TxD/RxD+	Twisted pair no. 3	--->	J2-4	Receive+
J1-12	TxD/RxD-			J2-11	Receive-

J1-9	RTS/CTS+	Twisted pair no. 2	--->	J2-5	Indication+
J1-10	RTS/CTS-		--->	J2-12	Indication-
J1-24	TxC/RxC+	Twisted pair no. 4	--->	J2-6	Timing+
J1-23	TxC/RxC-		--->	J2-13	Timing-
J1-15	Control_GND	Twisted pair no. 5	--	J2-8	Control_GND
Shield	--		--	Shield	--

¹Any pin not referenced is not connected.

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