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
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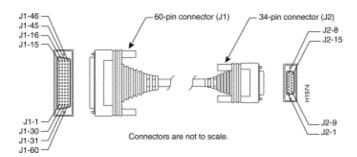
CAB-X21MT Serial Cable and Assembly

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.



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

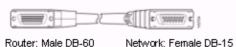
60 Pin ¹	Signal	Description	Direction	15	Signal
J1-48	Signai	Зомерион		Pin	21g.i.u.
J1-47	GND	Shorting			
J1-51	MODE_2	Group			
J1-52	GND	Shorting			
J1-46	MODE DCE	Group Single		J2-1	Shield GND

J1-11					
J1-12	TxD/RxD+	Twisted	>	J2-2	Transmit+
J1-9	TxD/RxD-	pair no. 3	>	J2-9	Transmit-
J1-10	RTS/CTS+	Twisted	>	J2-3	Control+
J1-28	RTS/CTS-	pair no. 2	>	J2-10	Control-
J1-27	RxD/TxD+	Twisted	<	J2-4	Receive+
J1-1	RxD/TxD-	pair no. 6	<	J2-11	Receive-
J1-2	CTS/RTS+	Twisted	<	J2-5	Indication+
J1-26	CTS/RTS-	pair no. 1	<	J2-12	Indication-
J1-25	RxC/TxCE+	Twisted	<	J2-6	Timing+
J1-15	RxC/TxCE-	pair no. 5	<	J2-13	Timing-
Shield	Control_GND	Twisted		J2-8	Control_GND
1		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

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	Sional	Description	Direction	15	Signal
J1-48	5151111	2 vs viip vion		Pin	5151141
J1-47	GND	Shorting			
	MODE 2	Group	-		-

MODE 2

J1-46	Shield_GND	Single		12_1	Shield GND
J1-28	amera_GND	Single		32−1	SHIER GND
J1-27	RxD/TxD+	Twisted	<	J2-2	Transmit+
J1-1	RxD/TxD-	pair no. 6	<	J2-9	Transmit-
J1-2	CTS/RTS+	Twisted	<	J2-3	Control+
J1-11	CTS/RTS-	pair no. 1	<	J2-10	Control-
J1-12	TxD/RxD+	Twisted	>	J2-4	Receive+
J1-9	TxD/RxD-	pair no. 3	>	J2-11	Receive-
J1-10	RTS/CTS+	Twisted	>	J2-5	Indication+
J1-24	RTS/CTS-	pair no. 2	>	J2-12	Indication-
J1-23	TxC/RxC+	Twisted	>	J2-6	Timing+
J1-15	TxC/RxC-	pair no. 4	>	J2-13	Timing-
Shield	Control_GND	Twisted		J2-8	Control_GND

pair no. 5 ____

Any pin not referenced is not connected.

Related Information

• Technical Support – Cisco Systems

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Shield --

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