

5-in-1 X.21 Assembly and Pinouts

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Introduction

Prerequisites

Requirements

Components Used

Conventions

X.21 Cable Assembly

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

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

NetPro Discussion Forums – Featured Conversations

Related Information

Introduction

This document describes the X.21 cable assembly and pinouts (Data Terminal Equipment – DTE and Data Communications – DCE).

Prerequisites

Requirements

There are no specific requirements for this document.

Components Used

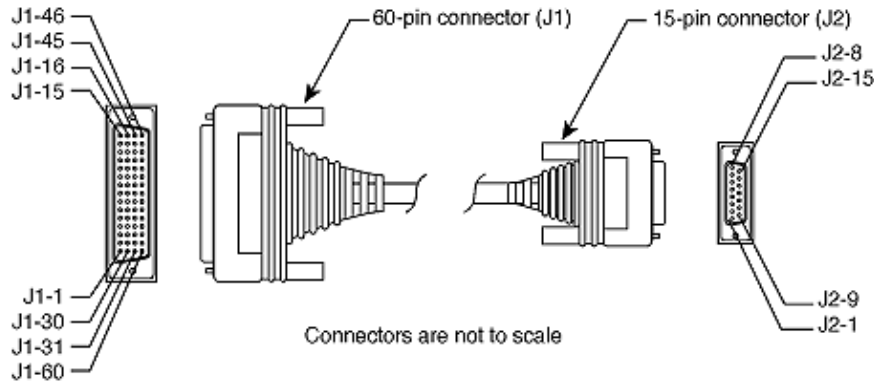
This document is not restricted to specific software and hardware versions.

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

Refer to Cisco Technical Tips Conventions for more information on document conventions.

X.21 Cable Assembly



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

The arrows in this table indicate signal direction:

- --> indicates DTE to DCE
- <-- indicates DCE to DTE
- -- means direction not applicable

60 Pin*1*	Signal	Description	Direction	15 Pin	Signal
J1-48					
J1-47	GND	Shorting Group			
J1-51	MODE_2				
J1-52	GND	Shorting Group			
J1-46	MODE_DCE ---	Single	--	J2-1	Shield GND
J1-11					
J1-12	TxD/RxD+	Twisted pair no. 3	-->	J2-2	Transmit+
J1-9	TxD/RxD--		-->	J2-9	Transmit--
J1-10	RTS/CTS+	Twisted pair no. 2	-->	J2-3	Control+
J1-28	RTS/CTS--		-->	J2-10	Control--
J1-27	RxD/TxD+	Twisted pair no. 6	<--	J2-4	Receive+
J1-1	RxD/TxD--		<--	J2-11	Receive--
J1-2	CTS/RTS+	Twisted pair no. 1	<--	J2-5	Indication+
J1-26	CTS/RTS--		<--	J2-12	Indication--
J1-25	RxC/TxCE+	Twisted pair no. 5	<--	J2-6	Timing+
J1-15	RxC/TxCE-- ---	Twisted pair no. 4	<--	J2-8	Timing--
Shield			--	Shield	GND

1 Any pin not referenced is not connected.					

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

60 Pin*1*	Signal	Description	Direction	15 Pin	Signal
J1-48					
J1-47	GND	Shorting			
J1-46	MODE_2 Shield_GND	Group Single			
J1-46	Shield_GND ---	Single	---	J2-1	Shield GND
J1-28					
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 pair no. 5	---	J2-8 Shield	Control GND ---
1 Any pin not referenced is not connected.					

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NetPro Discussion Forums – Featured Conversations for Router and IOS Architecture
Network Infrastructure: LAN Routing and Switching
Network Infrastructure: WAN Routing and Switching

Related Information

- [Connecting Serial Network Modules](#)
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