

# 5-in-1 X.21 Assembly and Pinouts

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## 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

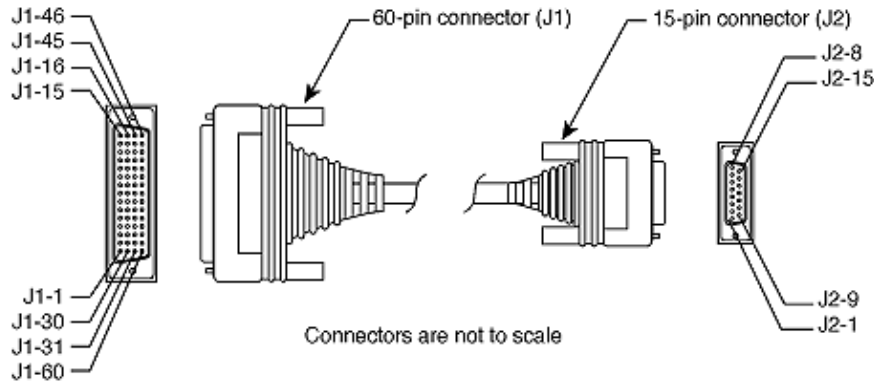
This document is not restricted to specific software and hardware versions.

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	<del>MODE_DCE</del>	Group			
	--	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	<del>RxC/TxCE--</del>	Twisted pair no. 4	<--	J2-8	Timing--
Shield	--		--	Shield	GND

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*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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Network Infrastructure: LAN Routing and Switching
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