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## C Series with D-Sub Terminal: I/O Cable & Accessory Guide

Updated Jan 5, 2023

### Overview

Use this guide to match your C Series Modules with a D-Sub front connection with a compatible cable and accessory to meet the needs of your application, whether you are creating a new configuration, replacing or expanding your current configuration, or verifying that existing parts can be used in a different configuration.

This page is part of the [C Series I/O Cable and Accessory Compatibility Guide](#).

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### Using this C Series I/O Cable and Accessory Guide

This guide is intended to cover connectors and cables for use with C Series Modules. It does not explicitly cover other NI product families such as [DAQ Multifunction I/O](#), [Digital Waveform Instruments \(formerly HSDIO\)](#), or R Series. It also does not cover legacy or End of Life (EOL) parts or products. Additionally, these products are supported in cRIO and/or cDAQ chassis, but this guide does not cover chassis accessories.

**Note:** Using the page search functionality in your browser to locate your model may speed up this process. This is typically CTRL+F on Windows or ⌘+F on MacOS.

### Finding Your C Series Module

This page is arranged by first having you identify the connector type on your C Series Module, locating the information for your specific model, and then choosing the accessory or cable combination that best fits your needs.

#### How to identify the model number of your C Series Module:

The model number of the C Series Module is printed on the faceplate of the module and also in the Getting Started that ships with the module.

## Cable and Accessory Compatibility Tables

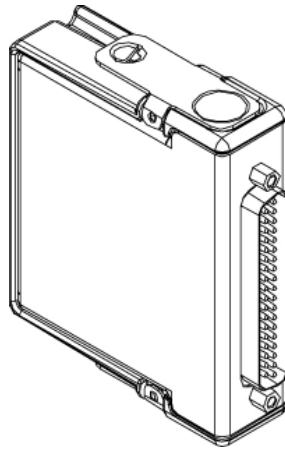


Figure 1: C Series Accessory Guide with **D-Sub Terminal** Front Connection

**Note:** All DIN Rail Terminal Blocks require a cable.

**Note:** N/A= Not Applicable

Cable & Accessories for C Series Module with D-Sub connection

Modules	Number of Pins	Front Mount Terminal Block	Strain Relief & Operator Protection	DIN Rail Mount Terminal Block	Cable
NI-9205 NI-9207 NI-9208 NI-9209 NI-9220 NI-9226 NI-9262 NI-9264 NI-9266 NI-9361 NI-9375 NI-9381 NI-9403 NI-9425 NI-9426 NI-9476 NI-9477 NI-9478 NI-9216 NI-9202 NI-9262 NI-9252	37	NI 9923 Screw Terminal Block <b>(Recommended)</b> P/N: <a href="#">781503-01</a>  NI TB-37F-37SC P/N: <a href="#">779184-01</a>	N/A	Spring Terminal Block Vertical Mount P/N: <a href="#">778685-01</a>  Spring Terminal Block Horizontal Mount P/N: <a href="#">778676-01</a>  Screw Terminal Block Vertical Mount P/N: <a href="#">778672-01</a>  Screw Terminal Block Horizontal Mount P/N: <a href="#">778673-01</a>  High-Voltage Screw Terminal Horizontal Mount P/N: <a href="#">779491-01</a>	SH37F-37M P/N: <a href="#">778621-01</a>  SH37F-P-4 Pigtail P/N: <a href="#">778620-04</a>  DB37F-DB37M Low Profile P/N: <a href="#">154302-01</a>  DB37F-Pigtail Low Profile P/N: <a href="#">782316-04</a>

NI-9237	37	NI 9923 Screw Terminal Block <b>(Recommended)</b> P/N: <a href="#">781503-01</a>	N/A	Spring Terminal Block Vertical Mount P/N: <a href="#">778685-01</a>	SH37F-37M P/N: <a href="#">778621-01</a>
				Spring Terminal Block Horizontal Mount P/N: <a href="#">778676-01</a>	SH37F-P-4 Pigtail P/N: <a href="#">778620-04</a>
				Screw Terminal Block Vertical Mount P/N: <a href="#">778672-01</a>	DB37F-DB37M Low Profile P/N: <a href="#">154302-01</a>
				Screw Terminal Block Horizontal Mount P/N: <a href="#">778673-01</a>	DB37F-Pigtail Low Profile P/N: <a href="#">782316-04</a>  SH37F-Tajimi P/N: <a href="#">199254-01</a>

Cable & Accessories for C Series Module with D-Sub connection

Modules	Number of Pins	Front Mount Terminal Block	Strain Relief & Operator Protection	DIN Rail Mount Terminal Block	Cable
NI-9201 NI-9221 NI-9401 NI-9421 NI-9472 NI-9475	25	NI 9924 Screw Terminal Block <b>(Recommended)</b> P/N: <a href="#">781922-01</a>	N/A	Screw Terminal Block Horizontal Mount P/N: <a href="#">781081-01</a>	SH25F-25M P/N: <a href="#">192568-01</a>  SHDB25F-DB25M Low Profile P/N: <a href="#">154742-01</a>

Cable & Accessories for C Series Module with D-Sub connection

Modules	Number of Pins	Front Mount Terminal Block	Strain Relief & Operator Protection	DIN Rail Mount Terminal Block	Cable
NI-9411	15	NI 9935 Screw Terminal Block <b>(Recommended)</b> P/N: <a href="#">785338-01</a>	N/A	Screw Terminal Block Horizontal Mount P/N: 785334-01	DB15F-DB15M P/N: 141856-01

Modules	Number of Pins	Front Mount Terminal Block	Strain Relief & Operator Protection	DIN Rail Mount Terminal Block	Cable
NI-9218	9	NI 9982F Screw Terminal Block P/N: 784137-01	N/A	N/A	NI 9982D Screw Terminal Block P/N: 783411-01
		NI 9983F Current Shunt P/N: 784138-01			NI 9983D Current Shunt P/N: 783413-01
		NI 9984F 1/4 Bridge Completion 120Ohm P/N: 784139-01			NI 9984D 1/4 Bridge Completion 120Ohm P/N: 783415-01
		NI 9985F 1/4 Bridge Completion 350Ohm P/N: 784140-01			NI 9985D 1/4 Bridge Completion 350Ohm P/N: 783417-01
		NI 9986F 1/2 Bridge Completion P/N: 784141-01			NI 9986D 1/2 Bridge Completion P/N: 783419-01
		NI 9987F 60V P/N: 784142-01			NI 9987D 60V P/N: 783421-01
		2-Pos Micro-Fit Plug And Crimp Terminal Kit P/N: 783799-01			Pigtail Cable P/N: 157867-01
					Micro-Fit to Pigtail Power Cable P/N: 157935-01

## Ordering Information

For more information on any of the listed NI orderable parts, please visit <http://www.ni.com/contact-us/> to contact an NI representative. Most NI orderable parts listed in this guide without a product page can still be purchased by contacting NI.

## Glossary of Terms Used

- **Backshell** - A component that provides Strain Relief and Operator Protection. These terms are synonymous. [Click here for an example.](#)
- **EMI Suppression Ferrite** - Passive electrical component clamped around a cable to reduce Electromagnetic Interference (EMI) on the line. [Click here for an example.](#)
- **Strain Relief and Operator Protection** - Surrounds the male or female cable connector to protect the cable connections and to provide cable strain relief. [Click here for an example.](#)
- **Screw Terminal Block** - A type of connector block that uses screw terminals as the method for connecting wires to your sensor. [Click here for an example.](#)
- **DIN Rail Mount Terminal Block** - A type of connector block that allows you to mount the block to a DIN rail. [Click here for an example.](#)
- **Front Mount Terminal Block** - A type of connector block that connects to the front of the module. [Click here for an example.](#)
- **Spring Terminal Block** - A type of connector block that uses spring terminals as the method for connecting wires to your sensor. [Click here for an example.](#)

## Additional Resources

- [C Series I/O Cable & Accessory Compatibility Guide](#)
- [C Series Module Compatibility Chart](#)
- [Shop for Terminal Blocks](#)