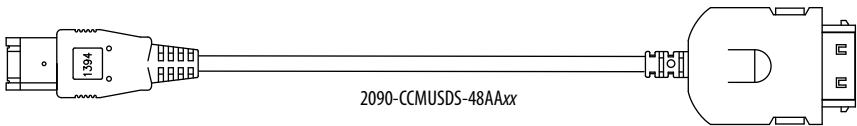
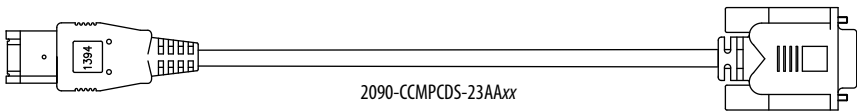
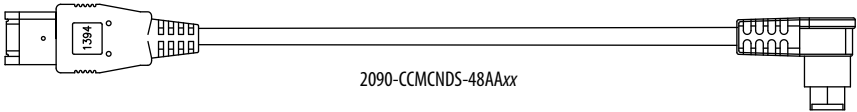
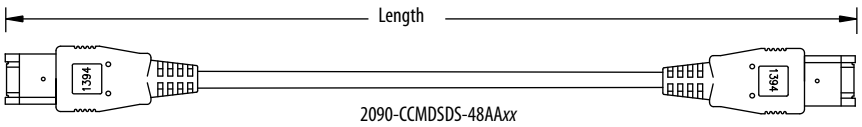


# Serial Communication Cables

Catalog Numbers 2090-CCMPCDS, 2090-CCMCNDS, 2090-CCMDSDS, 2090-CCMUSDS



Cat. No.	Length m (ft)	Connection
2090-CCMDSDS-48AA01	1.0 (3.28) <sup>(1)</sup>	Drive to drive
2090-CCMDSDS-48AAP3	0.3 (0.98) <sup>(1)</sup>	
2090-CCMCNDS-48AA01	1.0 (3.28) <sup>(1)</sup>	Drive to MicroLogix™ controller
2090-CCMCNDS-48AA03	3.0 (9.84) <sup>(2)</sup>	
2090-CCMPCDS-23AA01	1.0 (3.28) <sup>(1)</sup>	Drive to personal computer
2090-CCMPCDS-23AA03	3.0 (9.84) <sup>(2)</sup>	
2090-CCMUSDS-48AA01	1.0 (3.28) <sup>(1)</sup>	Drive to 1203-USB converter
2090-CCMUSDS-48AA03	3.0 (9.84) <sup>(2)</sup>	

(1) Tolerance is ± 30 mm (1.18 in.).

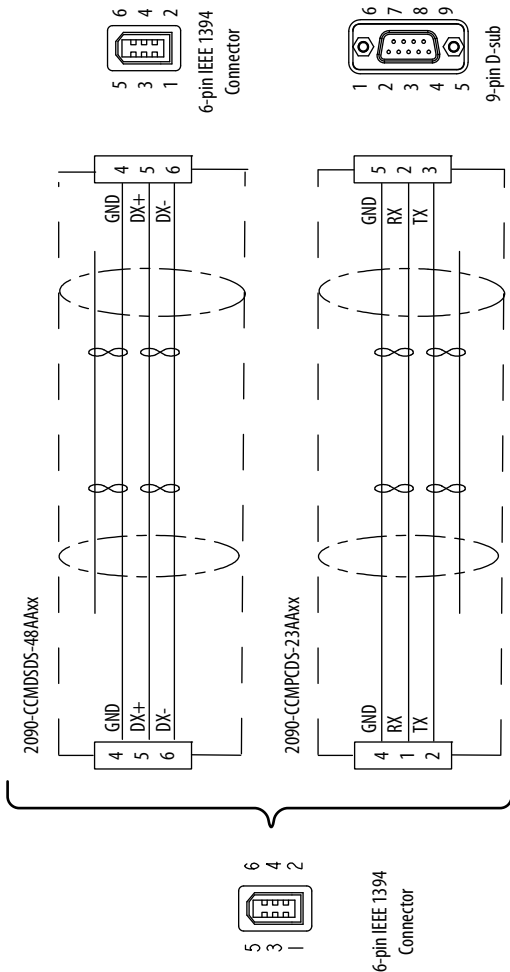
(2) Tolerance is ± 50 mm (1.97 in.).

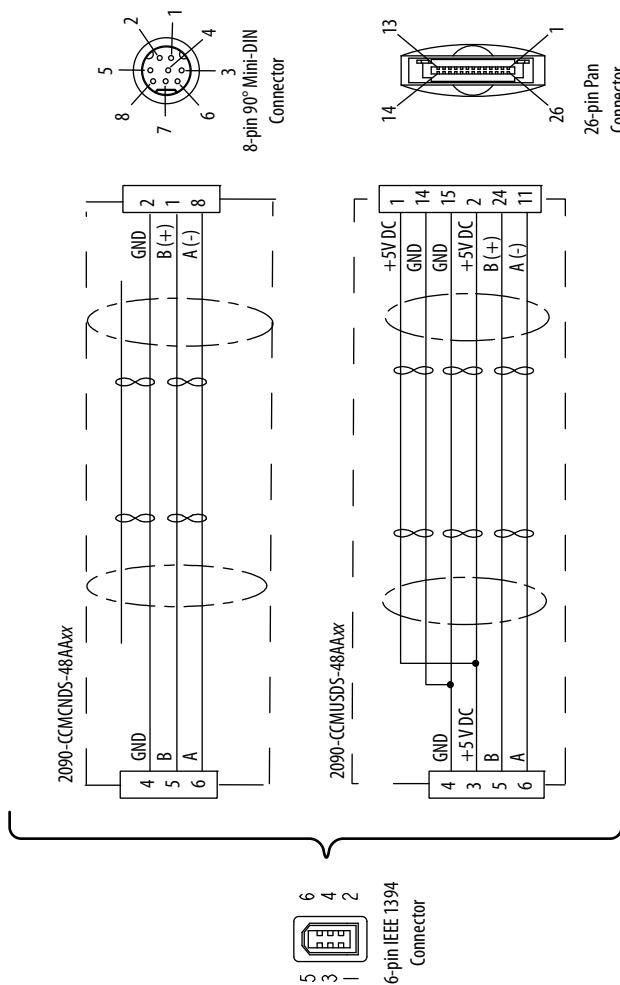
### Cable Specifications

Attribute	Value
Diameter	5.5 mm (0.22 in.)
Bend radius	55 mm (2.2 in.)

### Schematic and Connector Pinouts

#### 2090-CCMDSDS-48AAxx and 2090-CCMCNDS-48AAxx Cable Schematics and Pinouts





# Rockwell Automation Support

Rockwell Automation provides technical information on the Web to assist you in using its products.

At <http://www.rockwellautomation.com/support>, you can find technical manuals, technical and application notes, sample code and links to software service packs, and a MySupport feature that you can customize to make the best use of these tools. You can also visit our Knowledgebase at <http://www.rockwellautomation.com/knowledgebase> for FAQs, technical information, support chat and forums, software updates, and to sign up for product notification updates.

For an additional level of technical phone support for installation, configuration and troubleshooting, we offer TechConnect<sup>SM</sup> support programs. For more information, contact your local distributor or Rockwell Automation representative, or visit <http://www.rockwellautomation.com/support/>.

## Installation Assistance

If you experience a problem within the first 24 hours of installation, please review the information that's contained in this manual. You can also contact a special Customer Support number for initial help in getting your product up and running.

United States or Canada	1.440.646.3434
Outside United States or Canada	Use the <a href="#">Worldwide Locator</a> at <a href="http://www.rockwellautomation.com/support/americas/phone_en.html">http://www.rockwellautomation.com/support/americas/phone_en.html</a> , or contact your local Rockwell Automation representative.

## New Product Satisfaction Return

Rockwell Automation tests all of its products to help ensure that they are fully operational when shipped from the manufacturing facility. However, if your product is not functioning and needs to be returned, follow these procedures.

United States	Contact your distributor. You must provide a Customer Support case number (call the phone number above to obtain one) to your distributor to complete the return process.
Outside United States	Please contact your local Rockwell Automation representative for the return procedure.

## Documentation Feedback

Your comments will help us serve your documentation needs better. If you have any suggestions on how to improve this document, complete this form, publication [RA-DU002](#), available at <http://www.rockwellautomation.com/literature/>.

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