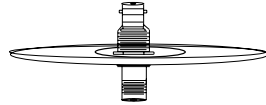


## ControlNet Coax BNC2TNC Adapter



Catalog Number 1786-BNC2TNC

### What's in This Document

Use this document as a guide when you install a ControlNet™ BNC2TNC Adapter.

<b>Topic:</b>	<b>Page:</b>
Important User Information	2
European Communities (EC) Directive Compliance	3
Verify Your Package Contents	4
Why Use the 1786-BNC2TNC Coax Adapter	4
Select a Location to Install the Adapter	5
Install the Connector	6
Rockwell Automation Support	8
Specifications	9
Certifications	9

---

**IMPORTANT**

For information on how to plan and install your ControlNet cable system, see the ControlNet Coax Media System Planning and Installation Manual, publication 1786-6.2.1 and the ControlNet Ex Media Planning and Installation Manual, 1797-6.2.1.

---

## Important User Information

Because of the variety of uses for the products described in this publication, those responsible for the application and use of this control equipment must satisfy themselves that all necessary steps have been taken to assure that each application and use meets all performance and safety requirements, including and applicable laws, regulations codes and standards.

The illustrations, charts, sample programs and layout examples shown in this guide are intended solely for purposes of example. Since there are many variables and requirements associated with any particular installation, Rockwell Automation does not assume responsibility or liability (to include intellectual property liability) for actual use based upon the examples shown in this publication.

Allen-Bradley publication SGI-1.1, Safety Guidelines for the Application, Installation, and Maintenance of Solid State Control (available from your local Allen-Bradley office), describes some important differences between solid-state equipment and electromechanical devices that should be taken into consideration when applying products such as those described in this publication.

Reproduction of the contents of this copyrighted publication, in whole or in part, without written permission of Allen-Bradley Company, Inc. is prohibited.

Throughout this document we use notes to make you aware of safety considerations:

---

**ATTENTION**



Identifies information about practices or circumstances that can lead to personal injury or death, property damage or economic loss.

---

Attention statements help you to:

- identify a hazard
- avoid a hazard
- recognize the consequences

---

**IMPORTANT**

Identifies information that is critical for successful application and understanding of the product.

---

## European Communities (EC) Directive Compliance

If this product has the CE mark it is approved for installation within the European Union and EEA regions. It has been designed and tested to meet the following directives.

### EMC Directive

This product is tested to meet the Council Directive 89/336/EC Electromagnetic Compatibility (EMC) by applying the following standards, in whole or in part, documented in a technical construction file:

- EN 50081-2 EMC — Generic Emission Standard, Part 2 — Industrial Environment
- EN 5001082-2 EMC — Generic Immunity Standard, Part 2 — Industrial Environment

This product is intended for use in an industrial environment.

### Low Voltage Directive

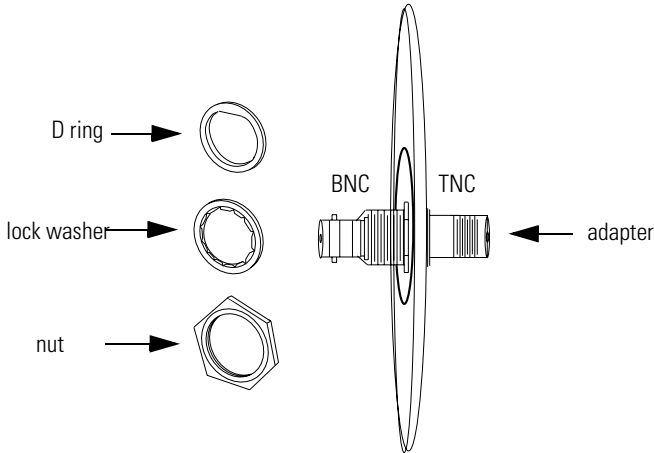
This product is tested to meet Council Directive 73/23/EEC Low Voltage, by applying the safety requirements of EN 61131-2 Programmable Controllers, Part 2 - Equipment Requirements and Tests.

For specific information required by EN 61131-2, see the appropriate section in the following Allen-Bradley publications:

- Industrial Automation Wiring and Grounding Guidelines, publication 1770-4.1
- Automation Systems Catalog, publication B111
- ControlNet Coax Planning and Installation Guide, publication 1786-6.2.1

## Verify Your Package Contents

Be certain that you have these items before you discard any packing material.



If an item is missing or incorrect, contact your distributor or sales office.

## Why Use the 1786-BNC2TNC Coax Adapter

Use the BNC2TNC Coax adapter to connect a BNC coax cable segment to a TNC coax cable segment. With the adapter you can:

- isolate a segment
- install the adapter in a cabinet
- install the adapter in a wall

## Select a Location to Install the Adapter

Use these guidelines to select where to install the adapter.

- There is no minimum or maximum space requirements between conversion adapters.
- Be certain that the install location is convenient to route your cable.
- Inside enclosures that provide appropriate environmental isolation.

---

**IMPORTANT**

ControlNet is an isolated system, connectors and the shield must not come in direct contact with metal enclosure or other ground equipment. This BNC2TNC provides an isolation from ground when properly installed.

- 
- Do not install the adapter in a position that routes the dropline cable over any ac power terminals on nearby modules.

---

**ATTENTION**

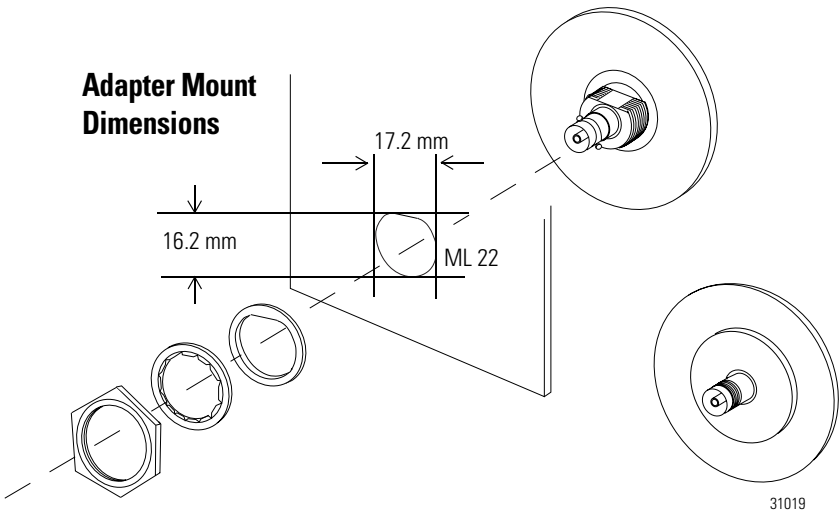
Do not allow any metal portions of the tap, such as the universal mounting bracket screws or connectors to contact any conductive material. This contact could cause noise on the network.

---

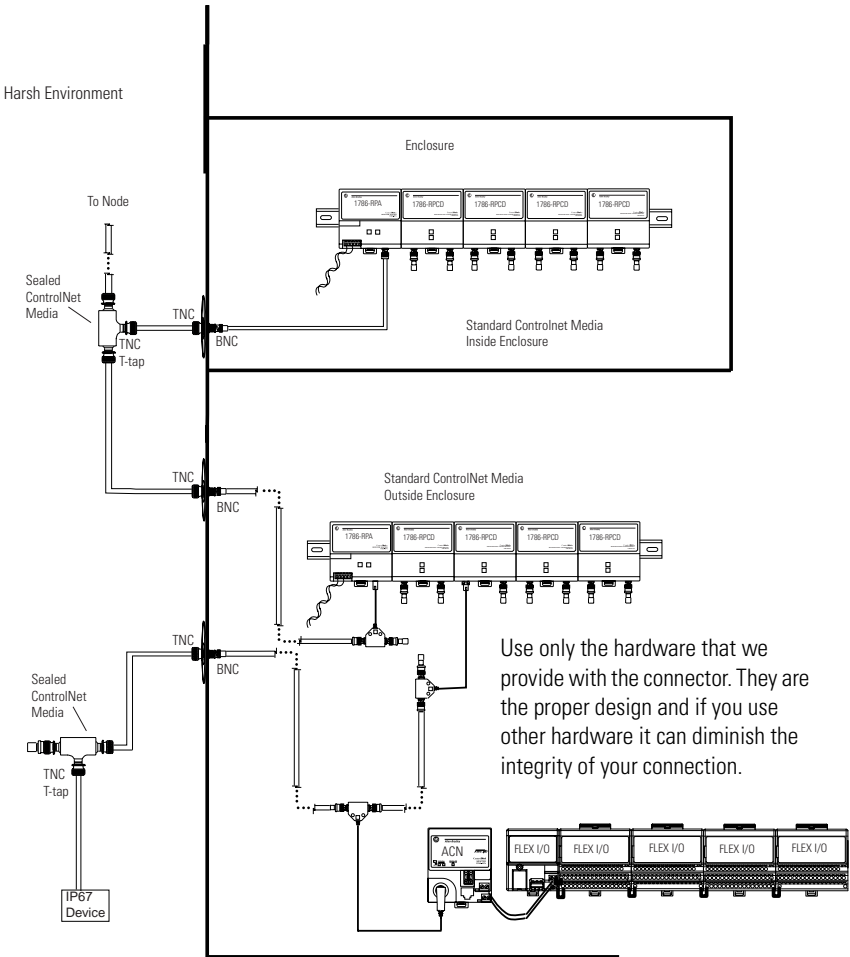
## Install the Connector

You can mount your ControlNet Coax BNC2TNC Adapter:

- to a cabinet mount
  - through a wall
1. Determine the side for the BNC and TNC connections.
  2. Center the connector in the drilled or punched hole.
  3. With the hardware provided with the adapter, attach the adapter to the flat surface.



4. Attach cables according to your network topology.



42347

**ATTENTION**



Do not over tighten the hardware. You can damage the adapter if you over tighten the hardware. Apply the torque at 0.2-0.4 N-m (1-2 ft.-lbs). Only use the hardware that we provide with the BNC2TNC connector. If you substitute hardware, we cannot guarantee the integrity of your network.

## Rockwell Automation Support

Rockwell Automation offers support services worldwide, with over 75 sales/support offices, over 500 authorized distributors, and 260 authorized systems integrators located throughout the United States alone, plus Rockwell Automation representatives in every major country around the world. Contact your local Rockwell Automation representative for:

- sales and order support
- product technical training
- warranty support
- support service agreements

## Obtain Pre-Sales Product Support

If you need to contact Rockwell Automation for pre-sales product support, try one of the following methods:

- Call your local Rockwell Automation representative
- Network Pre-sales support line, 1.440.646.3638 (3NET)
- Pre-Sales e-mail, [RACle3net@ra.rockwell.com](mailto:RACle3net@ra.rockwell.com)


## Obtain Technical Product Support

If you need to contact Rockwell Automation for technical assistance, try one of the following methods:

- Call your local Rockwell Automation representative
- Post-Sales Technical Support, 1.440.646.5800
- Fax Back system, 1.440.646.5436 (requires a touch-tone telephone)
- Web Links <http://www.ab.com> — as a registered member, open to <http://www.ab.com/mem/technotes/techmain.html>

## Specifications

The following table lists the specifications for the ControlNet BNC2TNC Adapter.

<b>Environmental Specifications</b>	
Operating temperature	-0 to 60°C (32 to 140°F)
Storage temperature	-40 to 85°C (-40 to 185°F)
Relative humidity	5 to 95% noncondensing
<b>Certifications</b>	
IP67 truck/tap connection	 When adapter is wired and locked on: Class 1 Division 2





ControlNet is a trademark of ControlNet International.

[www.rockwellautomation.com](http://www.rockwellautomation.com)

---

**Power, Control and Information Solutions Headquarters**

Americas: Rockwell Automation, 1201 South Second Street, Milwaukee, WI 53204-2496 USA, Tel: (1) 414.382.2000, Fax: (1) 414.382.4444

Europe/Middle East/Africa: Rockwell Automation, Vorstlaan/Boulevard du Souverain 36, 1170 Brussels, Belgium, Tel: (32) 2 663 0600, Fax: (32) 2 663 0640

Asia Pacific: Rockwell Automation, Level 14, Core F, Cyberport 3, 100 Cyberport Road, Hong Kong, Tel: (852) 2887 4788, Fax: (852) 2508 1846

Publication 1786-IN002A-US-P - May 2000

PN 957259-81

© 2000 Rockwell International Corporation. Printed in the U.S.A.