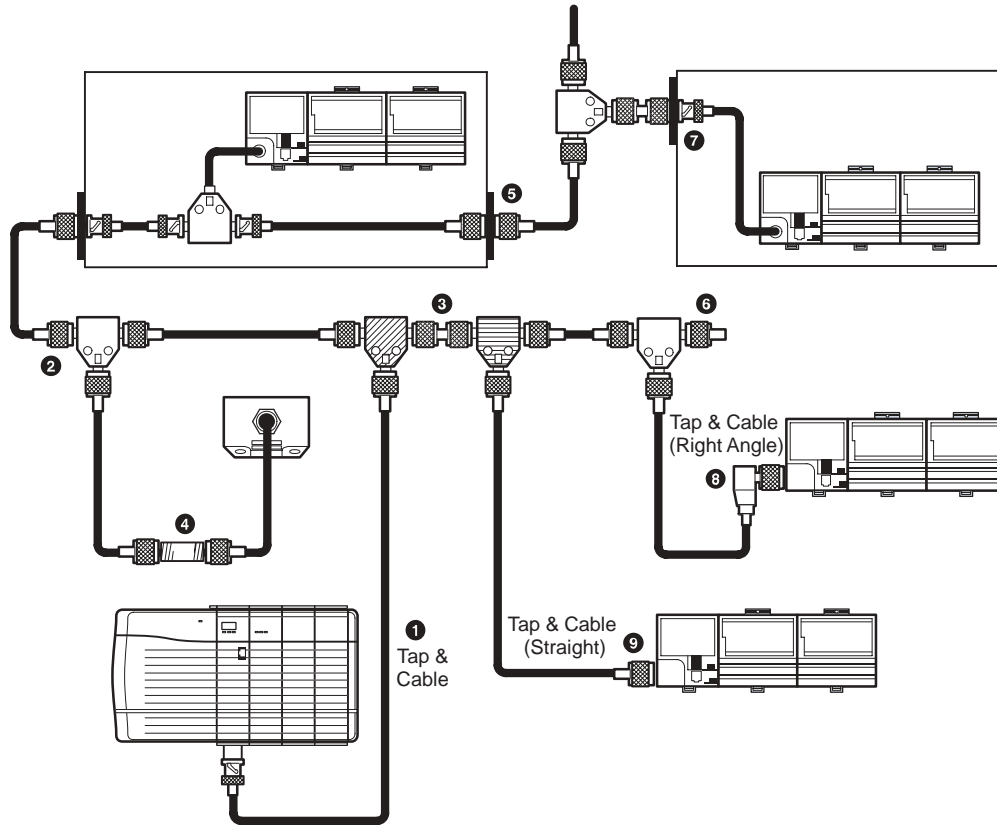


**Typical Configuration**



- |  |   |
|--|---|
| <ul style="list-style-type: none"> <li>❶ Ruggedized IP 67 T-Tap Body (TNC to BNC) . . . . . page 6–58</li> <li>❷ Plug Connector . . . . . page 6–58</li> <li>❸ Plug-Plug Barrel Connector . . . . . page 6–58</li> <li>❹ Jack-Jack Barrel Connector . . . . . page 6–58</li> <li>❺ Jack-Jack, Isolated Bulkhead . . . . . page 6–58</li> </ul> | <ul style="list-style-type: none"> <li>❻ 75 ohm Network Terminator . . . . . page 6–58</li> <li>❼ BNC to TNC, Isolated Bulkhead . . . . . page 6–58</li> <li>❽ Adaptor for ArmorPoint—Right Angle Connector,Thick Cable, TNC to TNC . . . . . page 6–58</li> <li>❾ Adaptor for ArmorPoint—Straight Connector, TNC to TNC . . . . . page 6–58</li> </ul> |
|--|---|

As the premier industrial network for I/O control, ControlNet is targeted for harsh industrial environments. Typical ControlNet BNC and Ethernet RJ45 connectors are not designed to withstand conditions such as high vibration, water, etc. that can make installation difficult and lead to costly downtime.

To ease those issues, Rockwell Automation has developed ruggedized Ingress Protection: Particle/Dust Rating of 6 and Water Rating of 7 (IP 67)

media using a TNC design. TNC components simplify installation because they penetrate the bulkhead easily and eliminate the need for wire glands. TNC components also increase reliability and decrease downtime in harsh environments such as stamping press, water washdown, and marine applications. And, finally, TNC components will be used with Armor products on ControlNet for On-Machine™ installations.

Designed for applications with cable movement, TNC components are well-suited to handle the constant stress of robotic motion or applications in which segments are routinely connected and/or disconnected. Consider using TNC connectors for any network connection outside a protected enclosure (i.e., outside a cabinet) or for any location where shock/vibration is present. ❶

❶ BNC (and Ethernet RJ45) are still good low-cost solutions for connections inside an enclosure or for connections in a benign office environment.

# TNC Media



Tap and Cable Assembly Kit

## Specifications

<b>Temperature—C (F):</b> <b>Operating</b> <b>Storage</b>	IEC 60068-2-1; IEC 60068-2-2 -20...70° (-4...158°) ambient -40...85° (-40...185°) ambient
<b>Humidity</b>	IEC 60068-2-30; 5 to 95% noncondensing
<b>Vibration:</b> <b>Operating</b>	IEC 60068-2-6 10...500 Hz (4...15 minute cycle); 10 g peak (all axis)
<b>Vibration:</b> <b>Packaged</b>	NSTA Project 1A ASTM; D999-75; Truck bed simulation
<b>Mechanical Shock:</b> <b>Operating</b> <b>Non-operating</b>	IEC 60068-2-27; 3 shocks per axis—category I 30 g peak (all axis) 50 g peak (all axis)
<b>Mechanical Shock:</b> <b>Packaged</b>	Drop test ASTM; D775-80
<b>Sealing</b>	IEC 529—IP 67 when fully mated

## Features

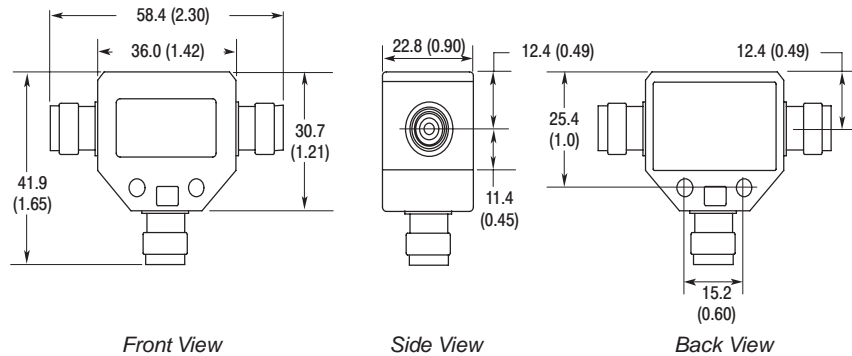
- Thread connectors
- IP67 rated
- Rugged durable construction

## Description

Sealed media components are ControlNet taps and connectors suitable for use in harsh environments.

The sealed tap contained in the kit protects the BNC connector, which is not water-tight.

## Dimensions—mm (inches)



## Product Selection

Description	Cat. No.
Ruggedized IP 67 T-tap body (TNC to BNC)	<a href="#">1786-TCT2BD1</a>
Plug connector	<a href="#">1786-TNCL10</a>
Plug-plug barrel connector	<a href="#">1786-TNCLP4</a>
Jack-jack barrel connector	<a href="#">1786-TNCJ4</a>
Jack-jack, isolated bulkhead	<a href="#">1786-TNCJ14</a>
75 ohm network terminator	<a href="#">1786-TNCLXT4</a>
BNC to TNC, isolated bulkhead	<a href="#">1786-BNC2TNC</a>
Adaptor for ArmorPoint—Right angle connector, thick cable (TNC to TNC)	<a href="#">1786-TPRT2T</a>
Adaptor for ArmorPoint—Straight connector (TNC to TNC)	<a href="#">1786-TPST2T</a>