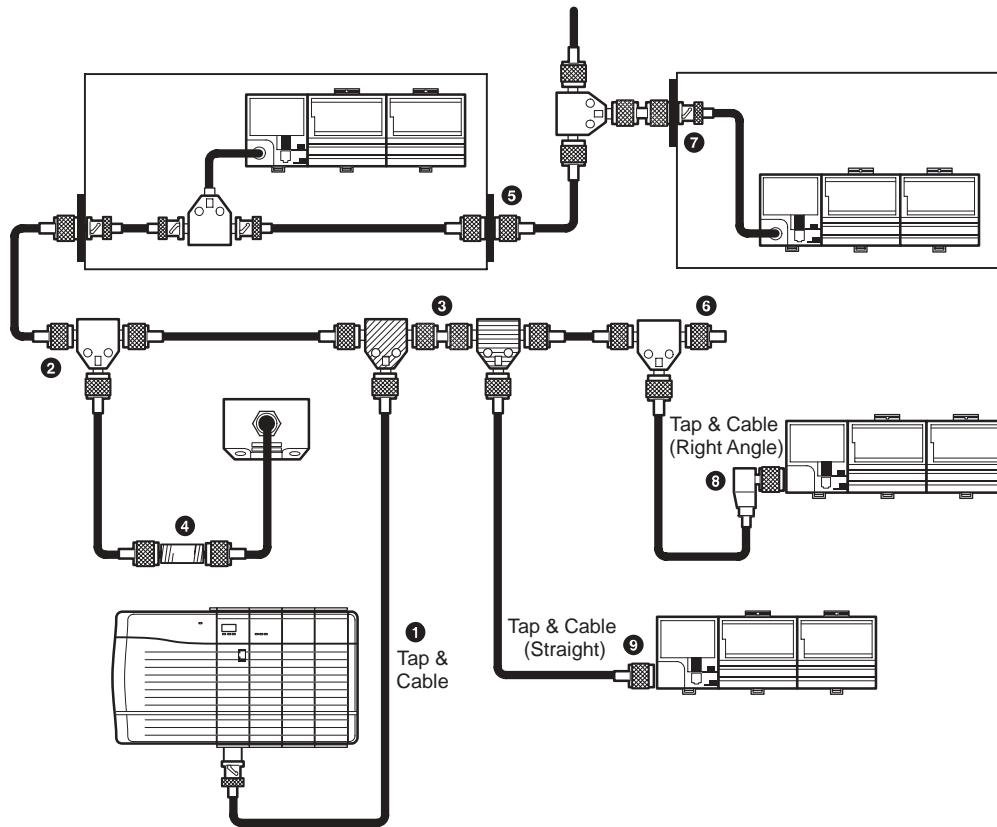


Typical Configuration



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

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

Features

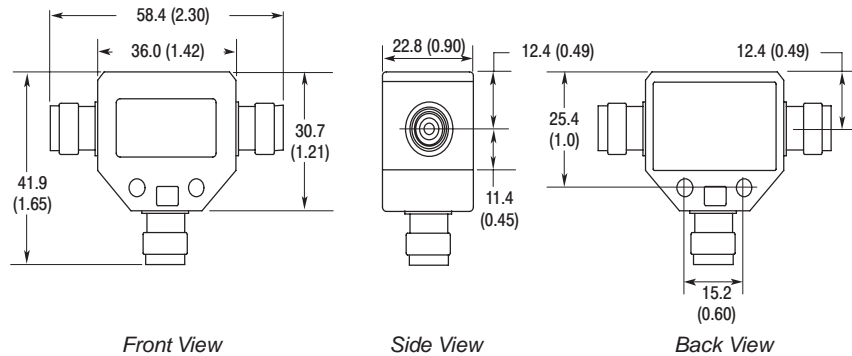
- Thread connectors
- IP67 rated
- Rugged durable construction

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)	1786-TCT2BD1
Plug connector	1786-TNCL10
Plug-plug barrel connector	1786-TNCLP4
Jack-jack barrel connector	1786-TNCJ4
Jack-jack, isolated bulkhead	1786-TNCJ14
75 ohm network terminator	1786-TNCLXT4
BNC to TNC, isolated bulkhead	1786-BNC2TNC
Adaptor for ArmorPoint—Right angle connector, thick cable (TNC to TNC)	1786-TPRT2T
Adaptor for ArmorPoint—Straight connector (TNC to TNC)	1786-TPST2T