

CTC

BNC Connector Options

EXPLAINED



**WHEN RELIABILITY MATTERS
CONNECT TO CONFIDENCE**

CTC BNC Connector Options

for use in specialized applications where a floating shield is a better solution

BNC connectors are widely used throughout many industrial applications for cable and instrumentation connections. Frequently BNCs may be grouped together on an instrumentation board so that multiple signals can be read simultaneously.



CTC's polycarbonate molded F Connector

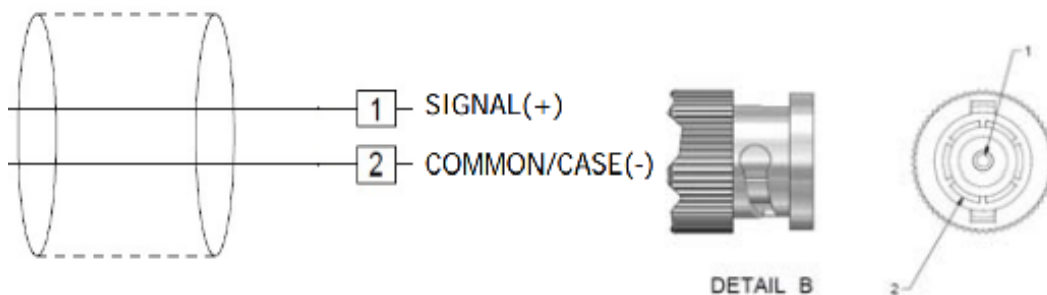
CTC's polycarbonate molded E Connector



In the vibration industry, we frequently use BNC cables to collect data and make connections with proximity probe systems and other sensitive electronics. In these situations, having the shield of the cable connected to the common can have undesirable effects such as an increase in cable induced noise, or in negative voltage applications, having the shield tied to the common conductor is detrimental to collecting good data.

In these situations, CTC has designed our **FN** and **EN** series of connectors where the shield is not connected to the common, but "floating." These cables still provide outstanding durability and carry the full CTC lifetime warranty, but are a better solution for use in situations where a floating shield is required.

BNC Connector with Floating Shield



Schematic detail of a CTC cable showing the shield drain floating instead of tied to the case of the BNC. In this case, the shield is connected to the backshell of the connector at the opposite end of the cable.

The CTC Difference

BNCs were originally designed to be used with coaxial cable, where the signal is carried on the center conductor and the common is the outer core or shield of the cable. At CTC, twisted shielded pair is utilized to build our BNC connectors with the cable shield connected to the common conductor of our twisted shielded pair cabling. For many years, this has proven to be an excellent method of manufacturing, providing durable cables that mimic the electrical properties of coaxial type cables.

CTC's BNC Offerings

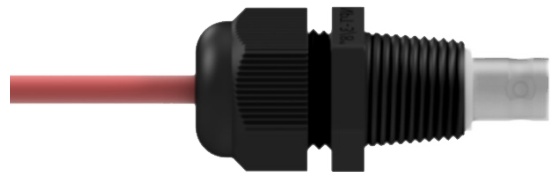
CTC E Series Connectors

molded BNC jacks



CTC EMPP Connector

BNC jack with threaded nylon backshell and measurement point protector



CTC F Series Connectors

BNC plugs



CTC FX90 Connector

right angle BNC plug



CTC BNC Breakout Cables

offering 2, 3, and 4-channel BNC jack and BNC plug connector options

