

BNC SERIES 10

The DELTA BNC Series 10 connectors are small, weatherproof, lightweight devices utilizing bayonet locking — a quick disconnect feature, particularly useful where many matings will be required. BNC Series connectors are nominally rated at 500 Volts peak (sea level). These electrically matched connectors operate from DC to 10 GHz in static applications and DC to 4 GHz in vibration.

All Delta connectors are available in silver or non-tarnishing Delplate finish.

GENERAL SPECIFICATIONS, MATERIALS AND FINISHES

PERFORMANCE:

NOMINAL IMPEDANCE:

50 Ohms

VOLTAGE RATING:

500 Volts RMS Max. (sea level)

TEMPERATURE RANGE:

-65°C to +165°C

INSULATION RESISTANCE:

Method 302, Test Condition B,
MIL-STD-202. 5,000 megohms
minimum.

DIELECTRIC WITHSTANDING**VOLTAGE:**

Method 301, MIL-STD-202.
1,500 volts RMS minimum
at Sea Level.

CAPTIVE CONTACTS:

(where noted) — Axial movement of center contacts is eliminated by use of a rear insulator which acts as a contact stop and restricts cable dielectric movement caused by cable flexing and/or temperature changes.

CRIMPING: (where noted) —

The braid clamping operation for flexible cable is accomplished by use of an inexpensive, standard, commercially-available crimping tool.

VIBRATION:

Method 204, Test Condition B,
MIL-STD-202. No discontinuity permitted.

SHOCK:

Method 213, Test Condition I,
MIL-STD-202. No discontinuity permitted.

THERMAL SHOCK:

Method 107, Test Condition B,
MIL-STD-202, except test high temperature shall be +85°C. High temperature shall be +200°C for connectors using +200°C cables.

CORROSION:

Method 101, Test Condition B,
MIL-STD-202.

MOISTURE RESISTANCE:

Method 106, MIL-STD-202. No measurements at high humidity. Insulation resistance shall be at least 200 megohms within 5 minutes after removal from humidity.

FREQUENCY RANGE:

0 to 4 GHz

MATERIALS AND FINISHES:

OUTER CONDUCTOR AND COMPONENTS:

Brass per QQ-B-626
Plated Silver .0002 thick per
QQ-S-365, or Delplate.

CONTACTS:

MALE — Brass per QQ-B-626
Plated silver .0002 per QQ-S-365
or
Plated gold per MIL-G-45204,
Type II, Class 2 (.0001" Min.)
over copper per MIL-C-14550

FEMALE —

Beryllium copper per QQ-C-530
Plated silver .0002 per QQ-S-365
or
Plated gold per MIL-G-45204,
Type II, Class 2 (.0001" Min.)
over copper per MIL-C-14550

DIELECTRICS:

Polytetrafluoroethylene (TFE
Fluorocarbon) per L-P-403 . . .
Rexolite
Dielectric material for each
connector noted in tabulation.

GASKETS:

Silicone Rubber per
ZZ-R-765.