CAMBRIDGE PRODUCTS
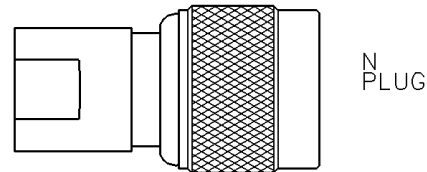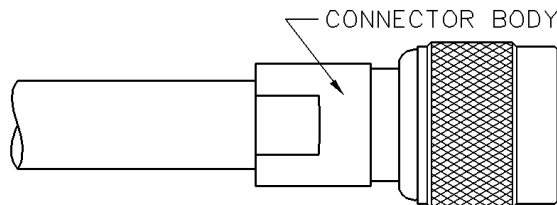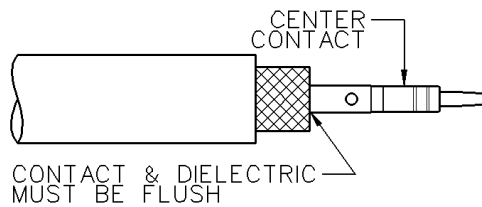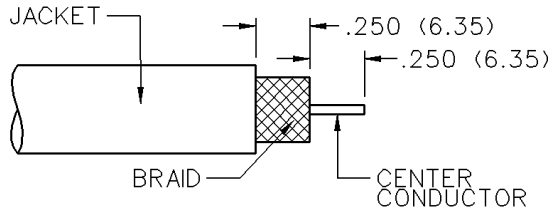
INCHES (MILLIMETERS)
CUSTOMER DRAWINGS AVAILABLE UPON REQUEST

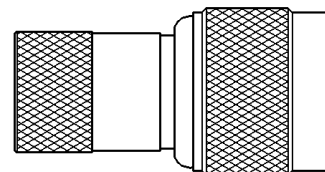# Type N Straight Twist-On Plug - 90 Second Termination

1.450 (36.83)

Ø.760 (19.30)
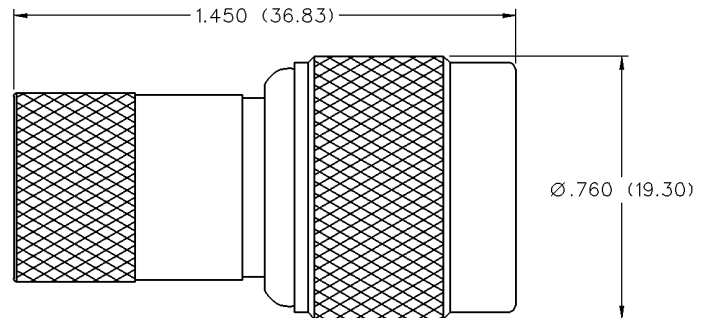
PART NUMBER	CABLE TYPE	CONTACT I.D.	JACKET O.D.
CPFI-ETN-22	BELDEN 89880	.083 (2.11)	.370 (9.40)-.380 (9.65)

JACKET

.250 (6.35)

.250 (6.35)

BRAID

CENTER CONDUCTOR

CENTER CONTACT

CONTACT & DIELECTRIC MUST BE FLUSH

CONNECTOR BODY

N PLUG

ETN PLUG

1. Identify connector parts (2 pieces).
2. Trim the cable as shown, taking care not to nick the center conductor or outer braid. Make sure that the outer braid lays flat. Trim any loose braids that can cause shorts.
3. Twist the contact in a clockwise direction on the center conductor until the contact is flush with the inner dielectric.
4. Twist the connector onto the cable in a clockwise direction. The connector is properly installed when the end of the contact is positioned within 1/32" of the front edge of the connector.

Part Number	Cable	Wire Gauge	Wire Decimal	Jacket O.D.
CPFI-ETN-22	BELDEN 89880	13	.085 (2.16)	.370 (9.40)-.380 (9.65)

N Connectors

Specifications

The N connector employs a large diameter threaded interface for excellent strength and reliability. This commercial quality connector handles high power applications such as antenna feeds for radios and cell sites. Termination options include crimp and clamp styles for rugged service.

Electrical Characteristics
Impedance: 50 Ohm nominal
Frequency range: 0-11 GHz
Working voltage: 500 volts RMS at sea level
Dielectric withstanding voltage: 1500 volts RMS at sea level
Corona level: 375 volts minimum at 70,000 feet
Contact resistance: Outer - 0.2 milliohms maximum
Center - 2.1 milliohms maximum
Insulation resistance: 5000 megohms minimum

Environmental Characteristics
Recommended temperature range: -65°C to +165°C
Moisture Resistance: MIL-STD-202

Mechanical Characteristics
Durability: 500 cycles
Cable retention: 20 lbs., RG-58 C/U cable

Materials
Body and coupling nut: Brass
Contact: Brass, phosphor bronze or beryllium copper
Crimp sleeve: Brass
Insulator: Teflon® or Delrin®
Hardware: Brass
Plating: Body - Nickel
Crimp sleeve - Nickel
Hardware - Nickel
Contact - Gold

* These are typical and may not apply to all connectors.