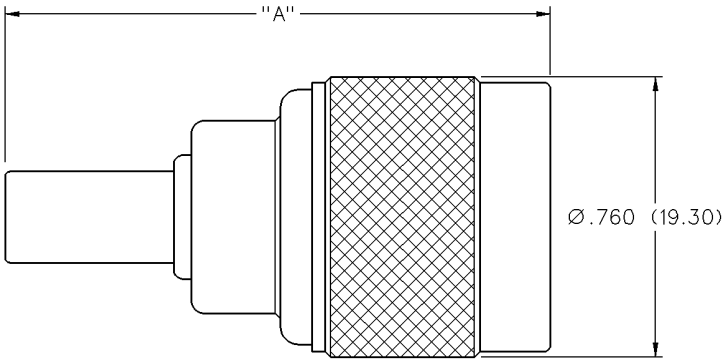
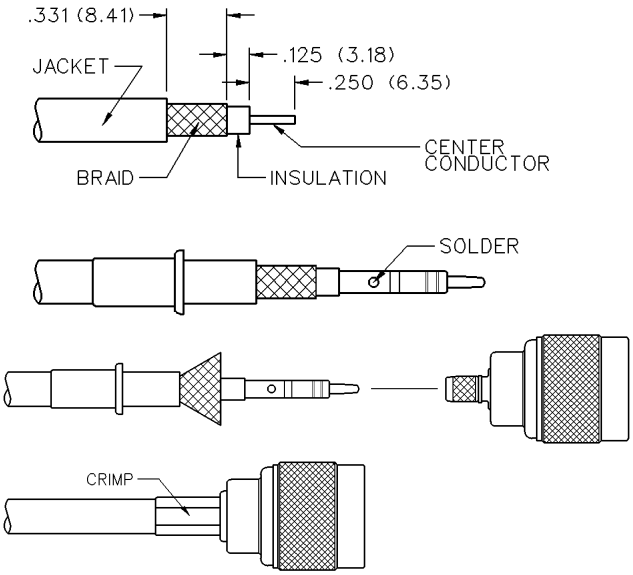
CAMBRIDGE PRODUCTS

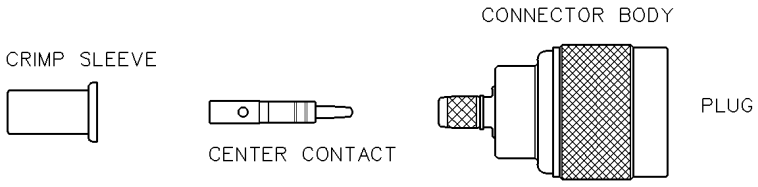
INCHES (MILLIMETERS)
CUSTOMER DRAWINGS AVAILABLE UPON REQUEST

Type N
Straight Crimp Type Plug - 120 Second Termination - 3 Piece



PART NUMBER	CABE TYPE	"A"	CONTACT I.D.	BODY I.D.	FERRULE I.D.
CPN-8/110	RG-8, 213	1.550 (39.37)	.110 (2.79)	.300 (7.62)	.420 (10.67)





1. Identify connector parts. (3 pieces)
2. Strip cable to dimensions shown. Do not nick the braid or center conductor. Slide the crimp sleeve onto the jacket; narrow end first.
3. Crimp or solder the contact onto the center conductor using the recommended crimp hex or the minimum amount of solder for a good joint. Note: Contacts may need to be pre-fit onto the center conductor and soldered through the hole.
4. Flare the braid and slide the connector body over the contact and under the braid. Then seat the body FIRMLY onto the contact; the cable may need to be held in a clamping fixture. Arrange the braid uniformly around the crimp stem, then slide the crimp sleeve forward to the body and crimp the sleeve using the recommended crimp Hex.

CABLE ASSEMBLY NOTES: The contact of the CPN-8/110 connector fits RG 8 cable types with a center conductor diameter up to .110".

Part Number	Cable	Wire Gauge	Wire Decimal	Jacket O.D.	Hex Size	Contact Crimp Hex	Recommended Crimp Tool
CPN-8/110	RG-8, 213	10	.110 (2.80)	.400 (10.16)-.410 (10.44)	.404 (10.26)	.100 (2.54)	24-7712P

N Connectors

Specifications

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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.

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CPN-8/110