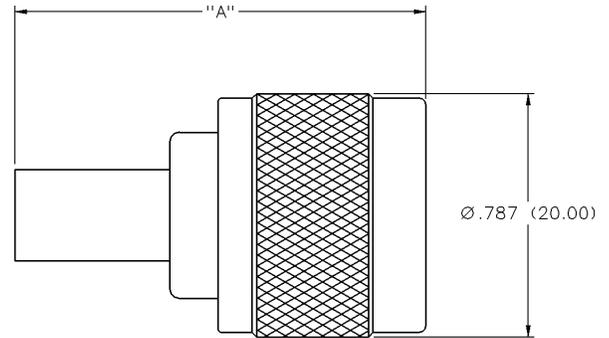




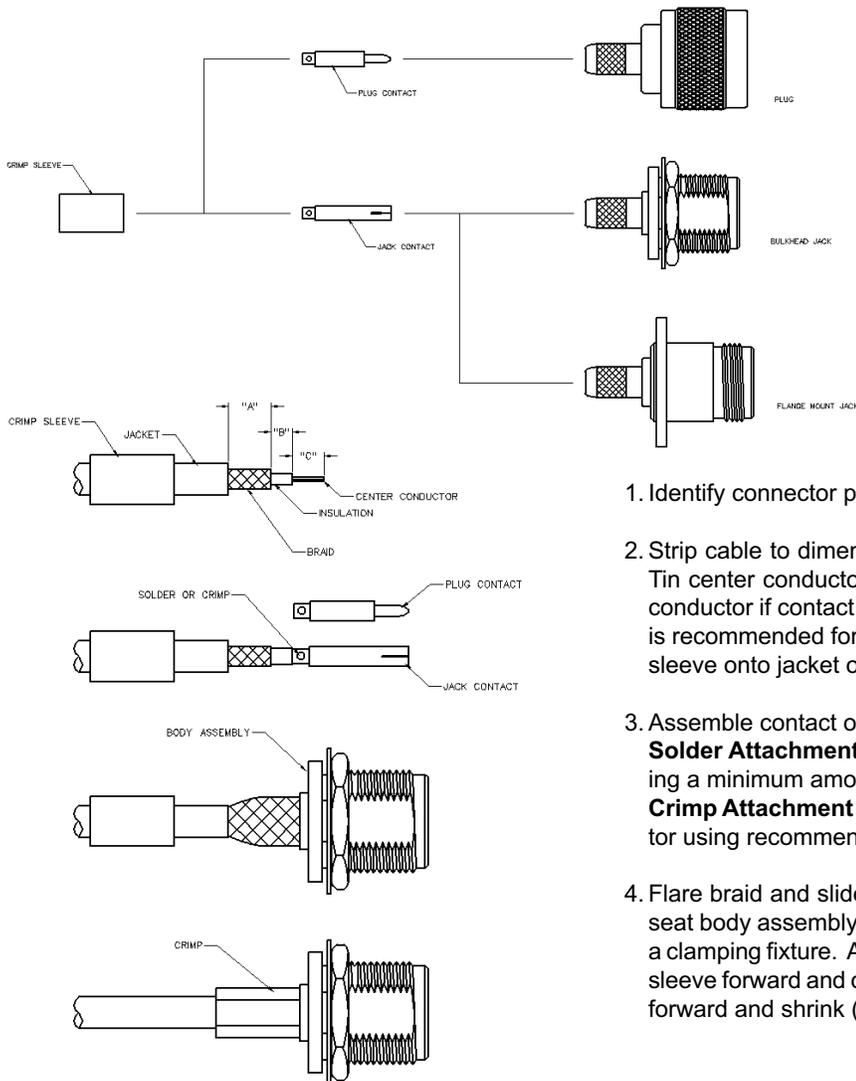
**CAMBRIDGE
PRODUCTS**

INCHES (MILLIMETERS)
CUSTOMER DRAWINGS AVAILABLE UPON REQUEST

Type N Straight Crimp Type Plug - Solder or Crimp Contact



PART NUMBER	CABLE TYPE	"A"	CONTACT I.D.	BODY I.D.	FERRULE I.D.
CPN-68-13	RG-142, 223, 400	1.330 (33.78)	.042 (1.07)	.127 (3.23)	.223 (5.66)



1. Identify connector parts. (3 piece parts - except bulkheads)
2. Strip cable to dimensions shown. Do not nick braid or center conductor. Tin center conductor if contact will be solder attached. Do not tin center conductor if contact is to be crimp attached. A wire stripper of correct size is recommended for this step. Slide heat shrink (as applicable) and crimp sleeve onto jacket of cable.
3. Assemble contact onto cable as shown.
 - Solder Attachment:** Solder contact to center conductor through hole using a minimum amount of solder for a good joint.
 - Crimp Attachment (where applicable):** Crimp contact to center conductor using recommended crimp hex.
4. Flare braid and slide body assembly over contact and under braid. Then seat body assembly firmly onto contact. The cable may have to be held in a clamping fixture. Arrange braid uniformly around crimp stem. Slide crimp sleeve forward and crimp using recommended crimp hex. Slide heat shrink forward and shrink (as applicable).

Part Number	Cable	Strip Dimensions			Crimp Sleeve Hex	Contact Crimp Hex	Recommended Crimp Tool	Ergonomic Crimp Tool
		"A"	"B"	"C"				
CPN-68-13	RG-142	.335 (8.50)	.079 (2.00)	.157 (4.00)	.213 (5.41)	.066 (1.69)	CP-DCC-1113	CP-VCT-2511

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.