



## TNC COAXIAL CONNECTORS

The Connex TNC connectors are made to a high quality level. Medium size coaxial connectors with thread coupling. 50 ohm impedance for applications up to 11 GHz and 75 ohm impedance up to 1 GHz. Cable entires full crimp or clamp type with soldered or crimp center contact.

### 75 OHM SERIES

Within the internationally standardized TNC mating face dimensions, a perfect 75 ohm characteristic impedance cannot be realized. However, at frequencies up to 1 GHz, the small impedance deviation is negligible for practical applications. A typical SWR of 1.15:1 at 1 GHz is achieved.

All 75 ohm TNC connectors and 50 ohm TNC connectors are intermateable.

*Note: Silverplated bodies are available by adding "S" to end of part number. Nexcote (white bronze) plating with no nickel under body or center contact is available by adding "NEX" to end of part number.*

## ELECTRICAL SPECIFICATIONS

Impedance	50 ohm	75 ohm
Frequency Range	0–11 GHz	0–1 GHz
Working Voltage	500 Volts rms.	500 Volts rms.
Dielectric Withstanding Voltage	1500 Volts rms.	1500 Volts rms.
VSWR	1.3 max. 0–11 GHz	1.05 + 0.1f (GHz) DC to 1 GHz
Contact Resistance	Center contact 1.5 milliohm Outer contact 0.2 milliohm	Center contact 1.5 milliohm Outer contact 0.2 milliohm
Insulation Resistance	5000 megohms (min)	5000 megohms (min)

## MATERIAL SPECIFICATIONS

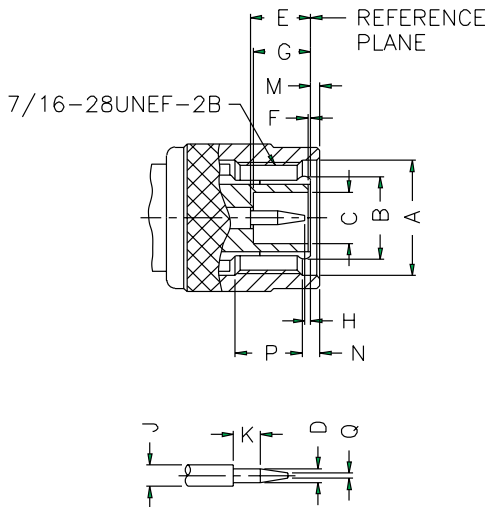
PARTS NAME		MATERIAL	FINISH
Center Contact	Male	Brass	Gold or Silver plated
	Female	Phosphor Bronze (nominal) or Beryllium Copper	Gold or Silver plated
Metal parts		Brass	Nickel*
Insulators		Teflon, Delrin, PBT polyester	None
Clamp gaskets		Silicone rubber, Synthetic rubber	None
Crimp ferrule		Annealed copper	Nickel*





## TNC COAXIAL CONNECTORS

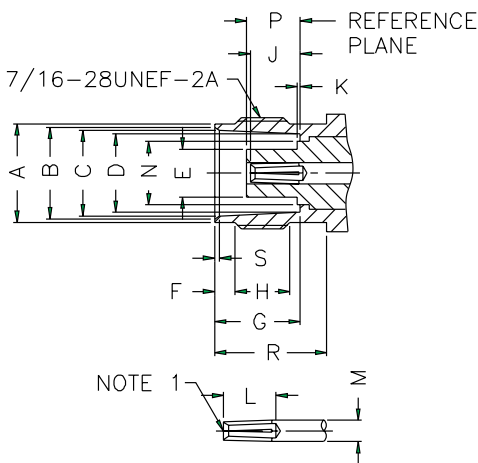
### INTERFACE MATING DIMENSIONS



### PLUG

Letter	Millimeters [Inches]	
	Minimum	Maximum
A	11.18 [.440]	–
B	FLARED TO MEET GOOD ELECTRICAL CONTACT	
C	4.83 [.190]	–
D	1.32 [.052]	1.37 [.054]
E	5.33 [.210]	5.84 [.230]
F	0.15 [.006]	0.46 [.018]
G	5.28 [.208]	5.79 [.228]
H	0.08 [.003]	1.02 [.040]
J	2.06 [.081]	2.21 [.087]
K	1.98 [.078]	–
M	–	1.98 [.078]
N	1.60 [.063]	–
P	3.96 [.156]	–
Q	–	0.64 [.025]

### JACK



Letter	Millimeters [Inches]	
	Minimum	Maximum
A	9.60 [.378]	9.70 [.382]
B	8.79 [.346]	9.04 [.356]
C	8.31 [.327]	8.46 [.333]
D	8.10 [.319]	8.15 [.321]
E	–	4.72 [.186]
F	1.73 [.068]	2.24 [.088]
G	8.31 [.327]	8.51 [.335]
H	4.75 [.187]	–
J	4.72 [.186]	5.23 [.206]
K	–	0.15 [.006]
L	4.95 [.195]	–
M	2.06 [.081]	2.21 [.087]
N	–	6.50 [.256]
P	4.78 [.188]	5.28 [.208]
R	10.52 [.414]	–
S	0.38 [.015]	0.76 [.030]

NOTE 1: I.D. TO MEET VSWR AND CONTACT RESISTANCE WHEN MATED WITH 1.32/1.37 MM DIA. PIN.