

TSS Series

TNC 50 Ohm Plugs, Jacks & Socket



Features:

- Silver plated bodies and contacts.
- Teflon insulators.

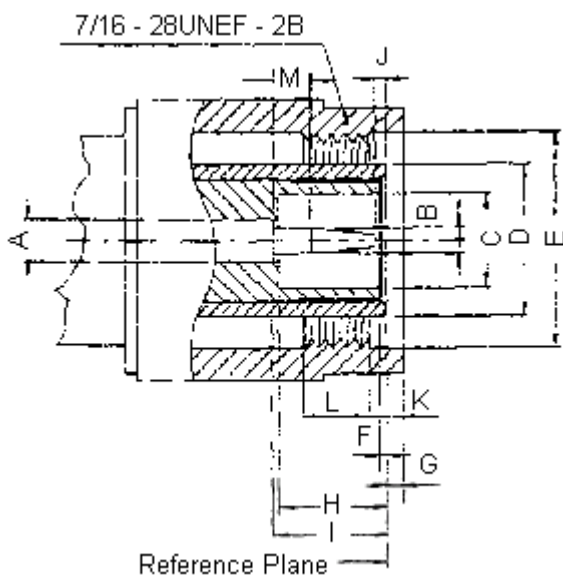
N series connectors are similar to BNC connectors except for their mating threaded coupling which is designed to provide low reflection from DC to 11GHz under extreme environmental conditions, especially shock and vibration.

Cable terminations are available in crimp, clamp, twist-on and solder configurations. The 7/16" - 28 thread coupling provides positive mating.

Although their rugged design was initially developed for high vibration environments. N series connectors are widely accepted and used for data transmission, medical equipment, cellular mobile telephones, test equipment, microwave components and aerospace applications.

Interface Dimensions:

Plug



Letter	Dimensions	
	Minimum	Maximum
A	2.06 (0.081)	2.21 (0.087)
B	1.32 (0.052)	1.37 (0.054)
C	4.83 (0.190)	-
D	-	8.08 (0.318)
E	11.18 (0.440)	-
F	0.15 (0.006)	-
G	-	1.98 (0.078)
H	5.28 (0.208)	5.79 (0.228)
I	5.33 (0.210)	5.84 (0.230)
J	0.08 (0.003)	1.02 (0.040)
K	1.60 (0.063)	-
L	3.96 (0.156)	-
M	1.98 (0.78)	-

Dimensions : Millimetres (Inches)

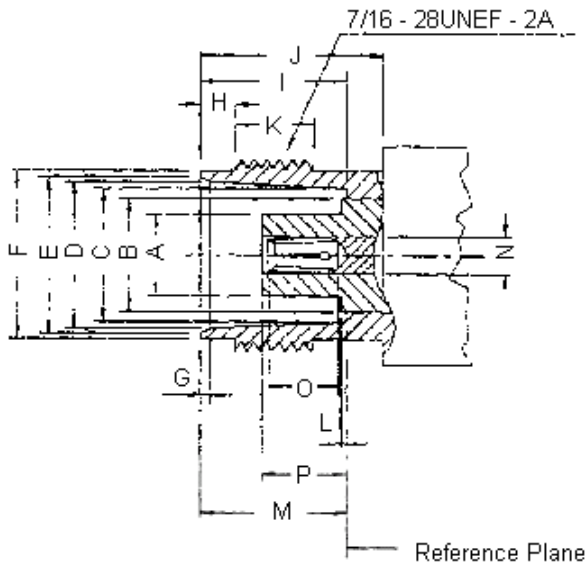


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Jack



Letter	Dimensions	
	Minimum	Maximum
A	-	4.72 (0.186)
B	-	6.50 (0.256)
C	8.10 (0.319)	8.15 (0.321)
D	8.31 (0.327)	8.46 (0.333)
E	8.79 (0.346)	9.04 (0.356)
F	9.60 (0.378)	9.68 (0.381)
G	0.38 (0.015)	0.77 (0.030)
H	1.73 (0.068)	2.24 (0.088)
I	8.31 (0.327)	8.51 (0.335)
J	10.52 (0.414)	-
K	4.75 (0.187)	-
L	-	0.15 (0.006)
M	4.78 (0.188)	5.28 (0.208)
N	2.06 (0.081)	2.21 (0.087)
O	4.95 (0.195)	-
P	4.72 (0.186)	5.23 (0.206)

Dimensions : Millimetres (Inches)

Electrical:

Impedance	50Ω
Frequency Range	0 to 11.0GHz
VSWR	1.3 maximum
Voltage Rating	500 volts rms maximum RG-58 → 500 volts rms maximum
Dielectric Withstanding Voltage	1,500 volts rms maximum RG-58 → 1,000 volts rms maximum
Contact Resistance	Centre contact = 1.5mΩ maximum Outer contact = 0.2mΩ maximum
RF Leakage	-55dB minimum at 3GHz
Insertion Loss	0.2dB maximum at 3GHz
Insulation Resistance	5,000MΩ minimum



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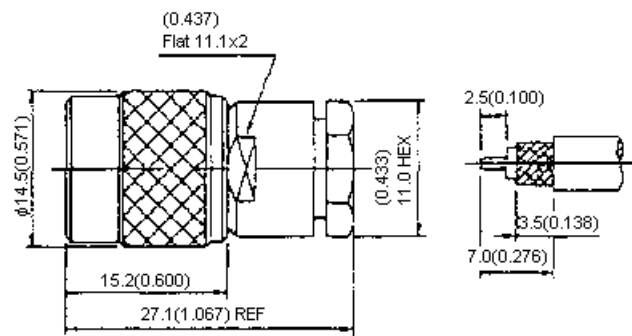
Mechanical and Environmental:

Cable Retention	RG-58 → 40lbs minimum
Durability	500 matings
Coupling Nut Retention	100lbs minimum
Temperature Range	-65 to +85°C
Vibration	MIL-STD-202 Method 204 Test Condition B
Salt Spray	MIL-STD-202 Method 101 Test Condition B

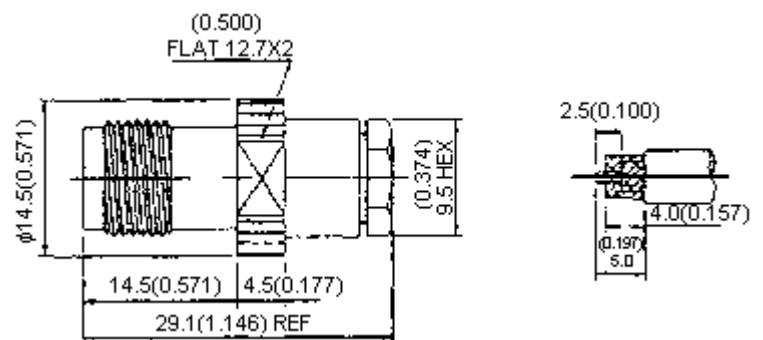
Material:

	Material	Plating
Connector Body	Brass	Silver
Centre Contact	Male : Brass Female : Brass or Phosphor Bronze, Beryllium Copper	Silver
Insulation	Teflon	None
Gasket	Silicone Rubber, Rubber	None
Crimp Ferrule	Annealed Copper	Same as Body

15-03 TSS RG58 50 OHM PLUG TNC 50R



15-07 TSS RG58 50R JACK TNC 50R



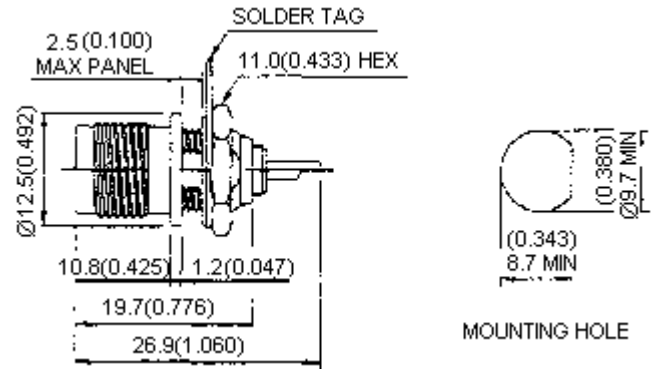
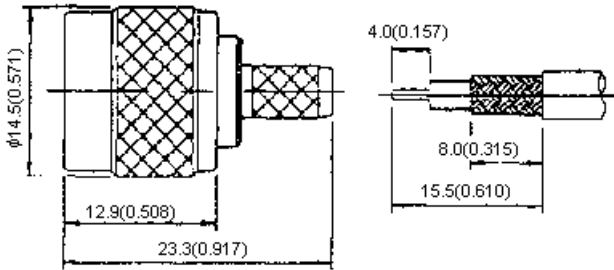
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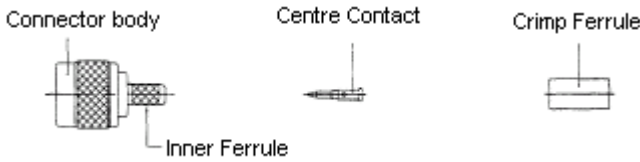


15-10-4 TSS RG58 50RP PLUG TNC 50R

15-29-1 TSS 500OHM SOCKET TNC B/H 50R

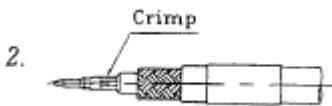


Crimp Type Connectors



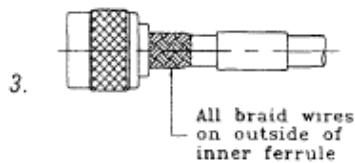
Preparation of Cable

1. Slide crimp ferrule onto cable.
2. Strip cable to recommended dimensions.



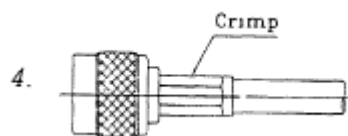
Crimp Centre Contact to Cable Centre Conductor

1. Insert cable centre conductor into centre contact until it butts against cable dielectric.
2. Crimp (or solder) centre contact.



Attach Cable to Connector Body

1. Insert cable assembly into rear of connector body, with all braid wires on outside of inner ferrule.
2. Push cable assembly forward until contact snaps into place in insulator.



Final Assembly

1. Slide crimp ferrule forward until flush with connector body and crimp.

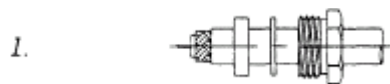
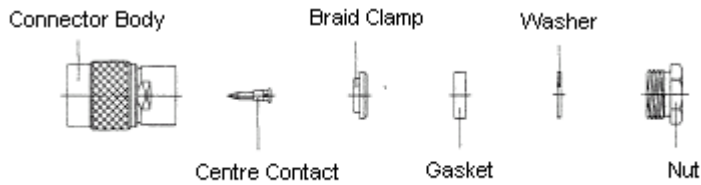


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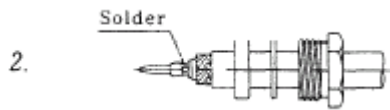


Clamp Type Connectors



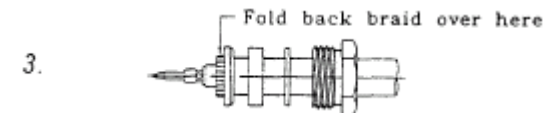
Preparation of Cable

1. Slide nut, washer and gasket onto cable.
2. Strip cable to recommended dimensions.



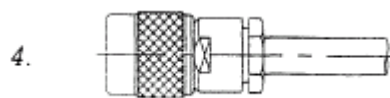
Solder Centre Contact to Cable Centre Conductor

1. Insert cable centre conductor into centre contact until it butts against cable dielectric.
2. Solder centre contact.



Install Braid Clamp

1. Place braid clamp over cable braid.
2. Comb braid wires out straight and fold back over front shoulder or braid clamp.
3. Trim braid wires flush with edge of braid clamp.



Final Assembly

1. Mount cable assembly and hardware into connector body.
2. Screw and tighten nut.

Part Number

Specification	Cable Group	Applicable Cable	Part Number
Clamp Plug	010	RG58	15-03 TSS RG58 50 OHM PLUG TNC 50R
Crimp Plug		RG58	15-10-4 TSS RG58 50RP PLUG TNC 50R
Clamp Jack		RG58	15-07 TSS RG58 50R JACK TNC 50R
Bulkhead Jack	-	-	15-29-1 TSS 500OHM SOCKET TNC B/H 50R



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Notes:

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