

TNC Connectors

Product Facts

- Lightweight miniature connector operating between DC to 11 GHz
- Threaded couplings to ensure positive engagement under vibration and shock application
- Wide variety of mounting styles and cable options
- Crimp and solder clamp termination options allow design flexibility
- Available in nickel/gold and silver/silver plating options for specific applications



Related Product Data:

Theory and Application -
Page 10002

Connector Selection Guide -
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TNC Connector Specification -
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Tooling - See Connector Tables

Packaging - All connectors are packaged individually. Also available in tray and bulk. See Part Number Selection Tables

The Greenpar TNC RF connector family 7/16-28 threaded couplings, provides low noise levels and optimum stability, and can withstand the shock and vibration often present in hostile environments. Available in 50 & 75 Ohm versions, these connectors

feature numerous styles including cable plugs and jacks and adaptor connectors. These connectors accept a wide range of coaxial cables and are intermateable with industry standard connectors designed to MIL-C-39012 specifications.

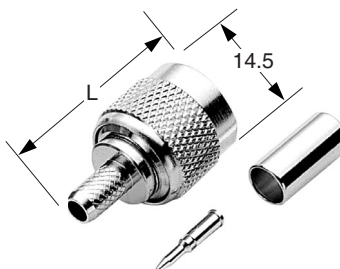
For complete product information, order Catalogue 1308830

TNC Connector Specifications, 50 & 75 Ohm

Characteristics	Hex Crimp 50 Ohm	Hex Crimp 75 Ohm	Mil Clamp 50 Ohm	Mil Clamp 75 Ohm
Electrical				
Impedance, Nom. (Ohms)	50	75	50	75
Working Voltage (Volts RMS)	500 Max. at sea level			
Contact Resistance (Milliohms)	Centre: 1.5 Max Outer: 1.0 Max			
Initial Insulation Resistance (Megohms)	5000 Min			
Dielectric Withstanding Voltage (VAC)	1500 RMS Max			
RF Insertion Loss, Max. (dB)	0.2 Max. at 3 GHz			
Frequency Range (GHz)	0 to 11.0	0 to 2.0	0 to 11.0	0 to 2.0
VSWR in Frequency Range @ 4 GHz.	Straight 1.30 Max. (50Ω) Right Angle 1.35 Max. (50Ω)			
Mechanical				
Mating Style	7/16 - 28 Threaded Coupling			
Coupling Nut Retention, Min. (N)	445 Min			
Cable Retention, (N)	RG158/141/142/223-170N RG59/62A/210-170N RG174/188/316-85N			
Durability (Cycles)	500 Matings			
Environmental				
Temperature Range, Operating (°C)	-65 to +165			
Vibration	MIL-STD-202 Method 204 Test Cond. B			
Salt Spray	MIL-STD-202 Method 101 Test Cond. B			
Thermal Shock	MIL-STD-202 Method 107 Test Cond. B			
Material				
Connector Body	Brass			
Connector Body Plating	Nickel or Silver			
Centre Contact Male	Brass			
Centre Contact Male Plating	Gold or Silver			
Centre Contact Female	Brass, Phosphor Bronze or Beryllium Copper			
Centre Contact Female Plating	Gold or Silver			
Insulation	Teflon			
Gasket	Silicon Rubber - White			
Crimp Ferrule	Annealed Copper			
Crimp Ferrule Plating	As per Body Plating			

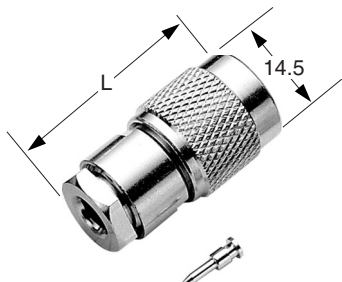
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TNC Straight Plugs / Jacks



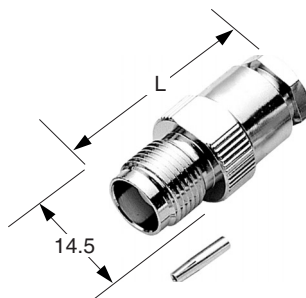
TNC Straight Plugs Crimp 50 Ohm

Connector Cable Range	Termination Type	Centre Contact Plating	Body Plating	Dielectric	Part Number	L Dim.	Hand Tool Part Number	Interchangeable Die Set	Assembly Instruction
RG174A/U, 188A/U 316/U, URM95 KX3B, KX22A	Hex Crimp	Silver	Silver	Teflon	cs0	23.3	9-1478240-0	9-1478245-0	411-3249
	Hex Crimp	Gold	Nickel	Teflon	1-1337611-0	23.3	9-1478240-0	9-1478245-0	
RG58C/U, 141A/U URM43,76 BELDEN 9907, KX15	Hex Crimp	Silver	Silver	Teflon	cs0	23.3	9-1478240-0	9-1478242-0	411-3247
	Hex Crimp	Gold	Nickel	Teflon	1-1337613-0	23.3	9-1478240-0	9-1478242-0	



TNC Straight Plugs Solder 50 Ohm

Connector Cable Range	Termination Type	Centre Contact Plating	Body Plating	Dielectric	Part Number	L Dim.	Hand Tool Part Number	Interchangeable Die Set	Assembly Instruction
RG58C/U 141A/U URM43,76 BELDEN 9907 KX15	Pressure Sleeve	Silver	Silver	Teflon	1-1478415-0	27.6	-	-	411-3274
	Mil/Clamp	Silver	Silver	Teflon	1-1337466-0	27.6	-	-	411-3252
	Mil/Clamp	Gold	Nickel	Teflon	1-1337612-0	27.6	-	-	



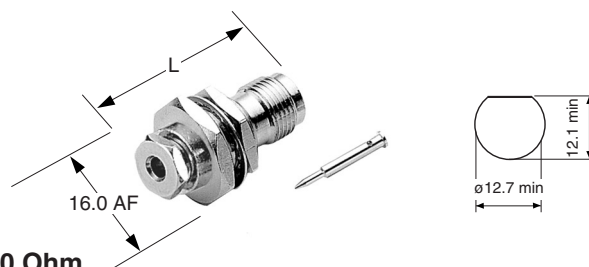
TNC Straight Jack Solder 50 Ohm

Connector Cable Range	Termination Type	Centre Contact Plating	Body Plating	Dielectric	Part Number	L Dim.	Hand Tool Part Number	Interchangeable Die Set	Assembly Instruction
RG58C/U, 141A/U URM43,76 BELDEN 9907 KX15	Pressure Sleeve	Silver	Silver	Teflon	1-1478416-0	29.0	-	-	411-3274
	Mil/Clamp	Silver	Silver	Teflon	1-1337467-0	29.0	-	-	411-3252

Preferred Part

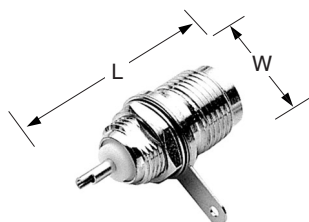
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TNC Bulkhead / Panel Jack Solder



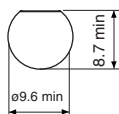
TNC Bulkhead Jack Solder 50 Ohm

Connector Cable Range	Termination Type	Centre Contact Plating	Body Plating	Dielectric	Part Number	L Dim.	Hand Tool Part Number	Interchangeable Die Set	Assembly Instruction
RG58C/U, 141A/U URM43,76	Pressure Sleeve	Silver	Silver	Teflon	1-1478417-0	28.7	-	-	411-3274
BELDEN 9907 KX15	Mil/Clamp	Silver	Silver	Teflon	1-1478021-0	28.7	-	-	411-3252



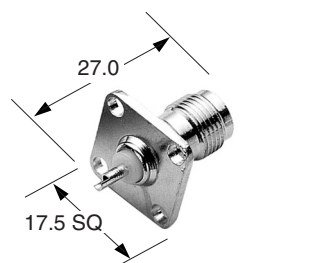
TNC Bulkhead Sockets 50 Ohm

Centre Contact Plating	Body Plating	Dielectric	L Dim.	W Dim.	Part Number without Solder Tag	Part Number with Solder Tag	Maximum Panel Thickness
Silver	Silver	Teflon	27.0	12.5	CS0	1-1337469-0	2.5



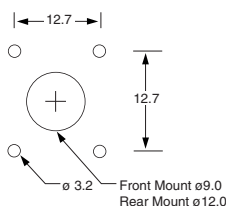
TNC Bulkhead Sockets 75 Ohm

Centre Contact Plating	Body Plating	Dielectric	L Dim.	W Dim.	Part Number without Solder Tag	Part Number with Solder Tag	Maximum Panel Thickness
Silver	Silver	Teflon	27.0	12.5	CS0	1-1337469-1	2.5



TNC Panel Sockets 50 Ohm

Centre Contact Plating	Body Plating	Dielectric	Part Number
Silver	Silver	Teflon	1-1337472-0



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Preferred Part