



RF/MICROWAVE

Coaxial Connectors

TAIWANGAST INC.

2F, No.27, Jhong-Rong St., Sin-Jhuang City, Taipei County 242, Taiwan

TEL. 886 2 8994 1601, FAX. 886 2 8994 1602

sales@rfconnector.com.tw, www.rfconnector.com.tw

General Information

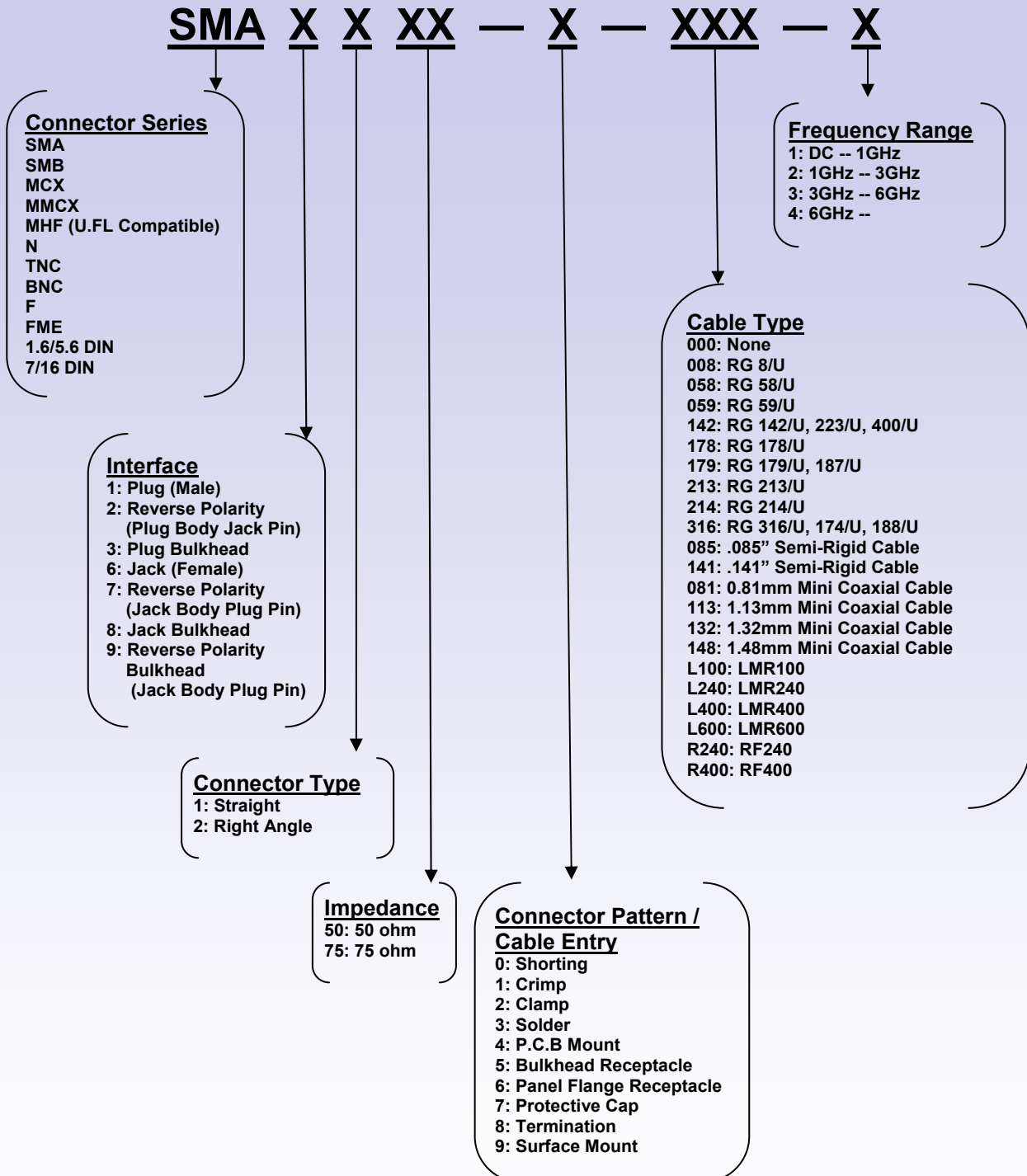
SMA	Subminiature Connectors Screw Lock	50 Ω	18 GHz
SMB	Subminiature Connectors Snap Lock	50 Ω 75 Ω	4 GHz 3 GHz
MCX	Microax Connectors Snap Lock	50 Ω 75 Ω	6 GHz 3 GHz
MMCX	Miniature Microax Connectors Snap Lock	50 Ω	6 GHz
N	Coaxial Connectors Screw Lock	50 Ω 75 Ω	11 GHz 1.5 GHz
TNC	Coaxial Miniature Connectors Screw Lock	50 Ω 75 Ω	11 GHz 1 GHz
BNC	Coaxial Miniature Connectors Bayonet Lock	50 Ω 75 Ω	4 GHz 1 GHz
FME	Coaxial Miniature Connectors Screw Lock	50 Ω	3 GHz
F	Coaxial Connectors Screw Lock	75 Ω	1 GHz
1.6/5.6	Coaxial Connectors Screw Lock	75 Ω	1 GHz
7/16	Coaxial Connectors Screw Lock	50 Ω	7.5 GHz
Adaptors	Between Series		

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RF Connector Number Legend

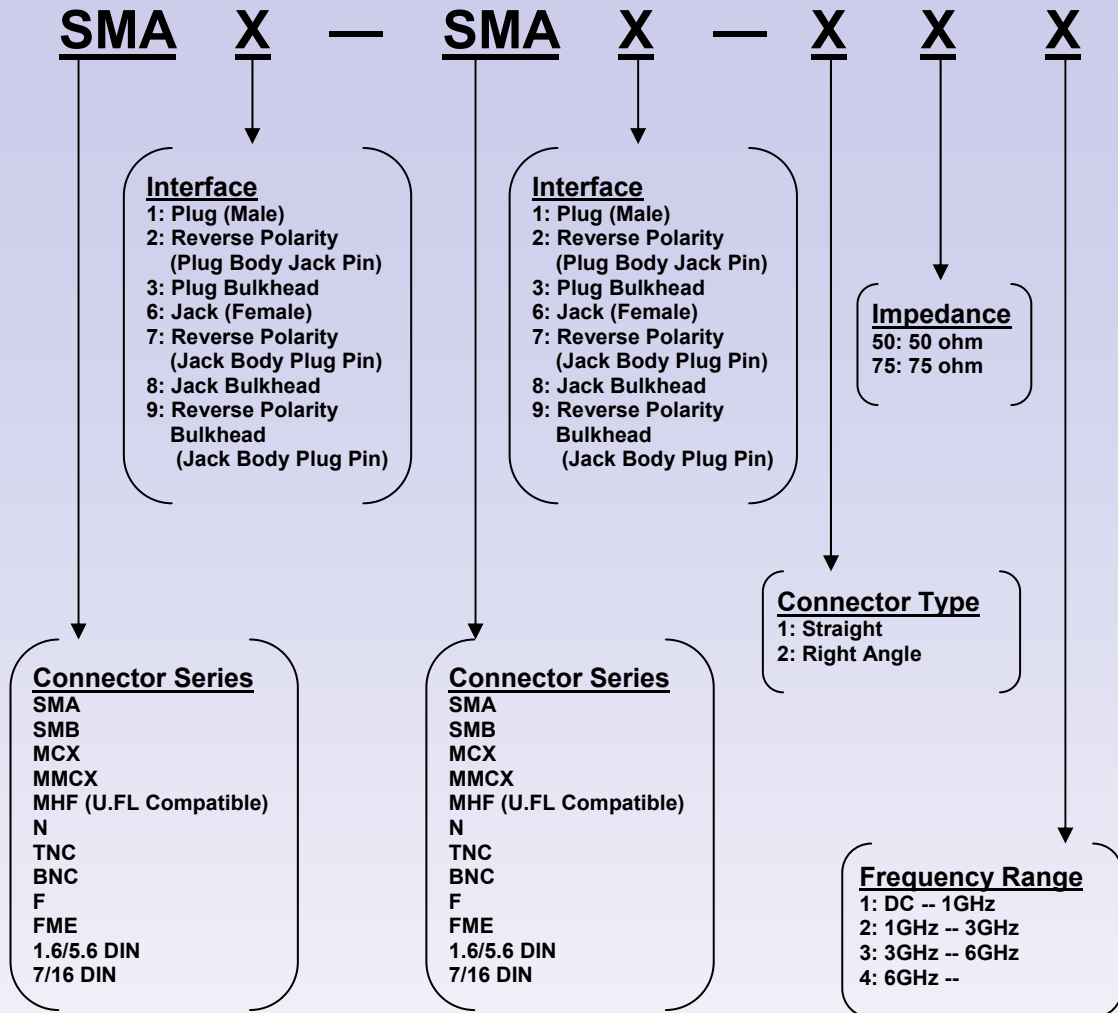


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RF Adapter Number Legend

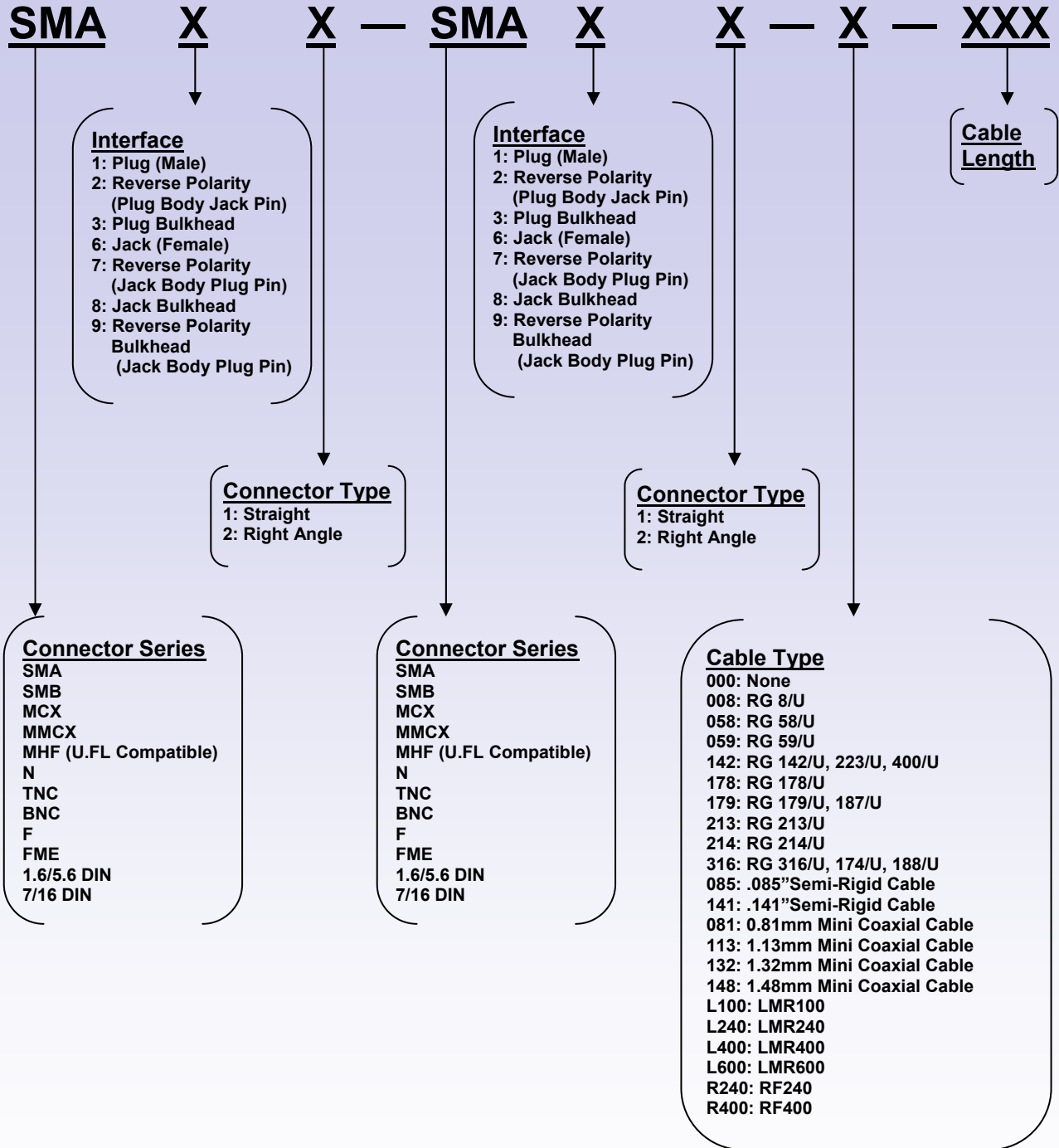


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RF Cable Assembly Number Legend



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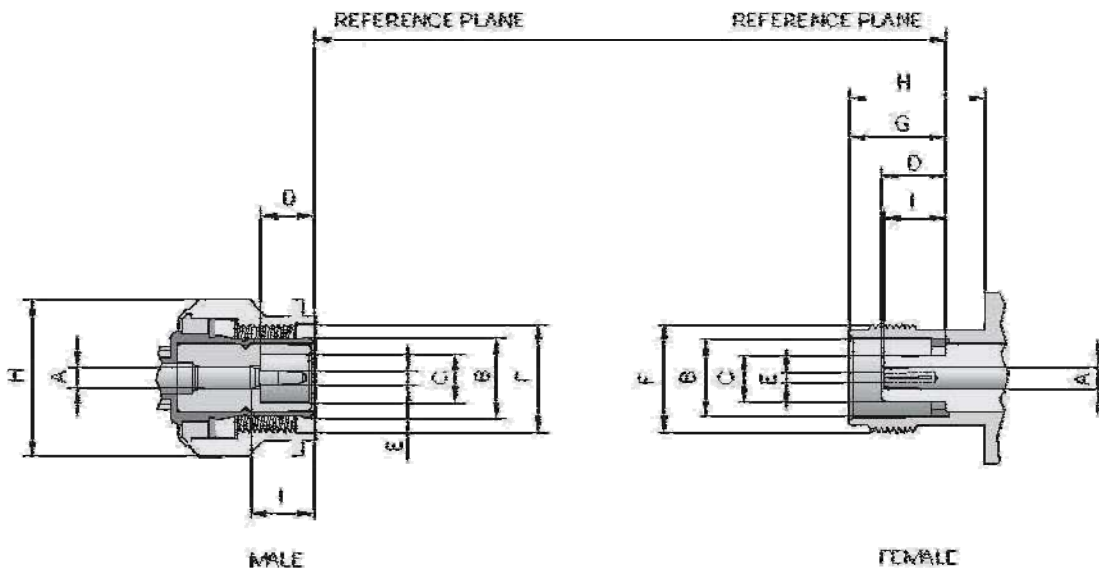
TNC SERIES

The TNC Series, coaxial miniature connectors, is dimensionally and electrically similar to the BNC series, but uses the thread coupling mechanism instead of bayonet locking system. This allows them to be used under a higher vibration load than BNC.

Applications:

- ◆ Antennas
- ◆ Cellular mobile telephones
- ◆ Mil-Aero
- ◆ Microwave Components
- ◆ Base Stations
- ◆ Components
- ◆ Networks
- ◆ Cable Assembly
- ◆ Instrumentation
- ◆ Radar

Interface Mating Dimensions:



Interface Dimension in Millimeters					
	Male		Female		
	Min.	Max.		Min.	Max.
A	2.06	2.21	A	2.06	2.21
B	Resilient dim.		B	8.10	8.15
C	4.83		C		4.72
D	5.28	5.79	D	4.78	5.28
E	1.32	1.37	E	Resilient dim.	
F	7/16-28-UNEF-2B		F	7/16-28-UNEF-2B	
G			G	8.31	8.51
H	16.00 nom		H	10.52	
I	5.33	5.84	I	4.55	5.23

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TNC SERIES

Technical Characteristics

Electrical

Impedance	50 ohm / 75 ohm	
Frequency Range	0 – 11 GHz/ 0 – 1.0 GHz	
Working Voltage	500 VRMS max.	
Dielectric Withstanding Voltage	1500VRMS	
VSWR	Straight	1.3 max.
	Right Angle	1.5 max.
Contact Resistance	Center Contact	3 Milliohm Max.
	Outer Contact	2 Milliohm Max.
Insulator Resistance	5000 Mega ohms min.	

Material:

Part Name	Material	Finish
Body, Metal Parts	Brass	Nickel
Center Contacts	Plug: Brass	Gold
	Jack: Brass, Beryllium Copper, Phosphor Bronze	Gold
Insulator	PTFE or Derlin	
Crimp Ferrule	Annealed Copper	Nickel
Clamp Gaskets	Silicone Rubber or Rubber	

Mechanical & Environmental

Engagement Force	2 in-lbs. max
Disengagement Force	2 in-lbs max.
Coupling Nut Retention	100 lbs. min.
Coupling Proof Torque	15 in-lbs. min.
Contact Retention	6 lbs. min.
Durability (Mating)	500 cycles min. (For Be/Cu Jack Contact only)
Temperature Range	-65°C ~ 165°C
Vibration	MIL-STD-202 Meth. 204/B
Salt Spray	MIL-STD-202 Meth. 101/B
Thermal Shock	MIL-STD-202 Meth. 107/B

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TNC SERIES

50 ohm

**TNC1150-1-XXX
TNC STR. PLUG CRIMP TYPE**

Suitable Cable:

- (1)RG58
- (2)RG174, RG188, RG316
- (3)RD316



**TNC1150-2-XXX
TNC STR. PLUG CLAMP TYPE**

Suitable Cable:

- (1)RG58
- (2)RG174, RG188, RG316
- (3)RD316



**TNC6150-1-XXX
TNC STR. JACK PANEL CRIMP TYPE**

Suitable Cable:

- (1)RG58
- (2)RG174, RG188, RG316
- (3)RD316



**TNC6150-6
TNC STR. JACK
PANEL FLANGE RECEPTACLE**



**TNC8150-1-XXX
TNC STR. JACK BULKHEAD CRIMP TYPE**

Suitable Mini Coaxial Cable:

- (1)1.13mm
- (2)1.32mm



**TNC8150-1-XXX
TNC STR. JACK BULKHEAD CRIMP TYPE**

Suitable Cable:

- (1)RG58
- (2)RG174, RG188, RG316
- (3)RD316



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TNC SERIES

REVERSE
POLARITY

50 ohm

TNC2150-1-XXX
TNC STR. PLUG REVERSE POLARITY
CRIMP TYPE
Suitable Cable:
(1)RG58
(2)RG174, RG188, RG316
(3)RD316



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TNC SERIES

75 ohm

TNC1175-1-XXX
75 ohm TNC STR. PLUG CRIMP TYPE
Suitable Cable:
(1)RG59
(2)RG179



TNC8175-1-XXX
75 ohm TNC STR. JACK BULKHEAD
CRIMP TYPE
Suitable Cable:
(1)RG59
(2)RG179



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