



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

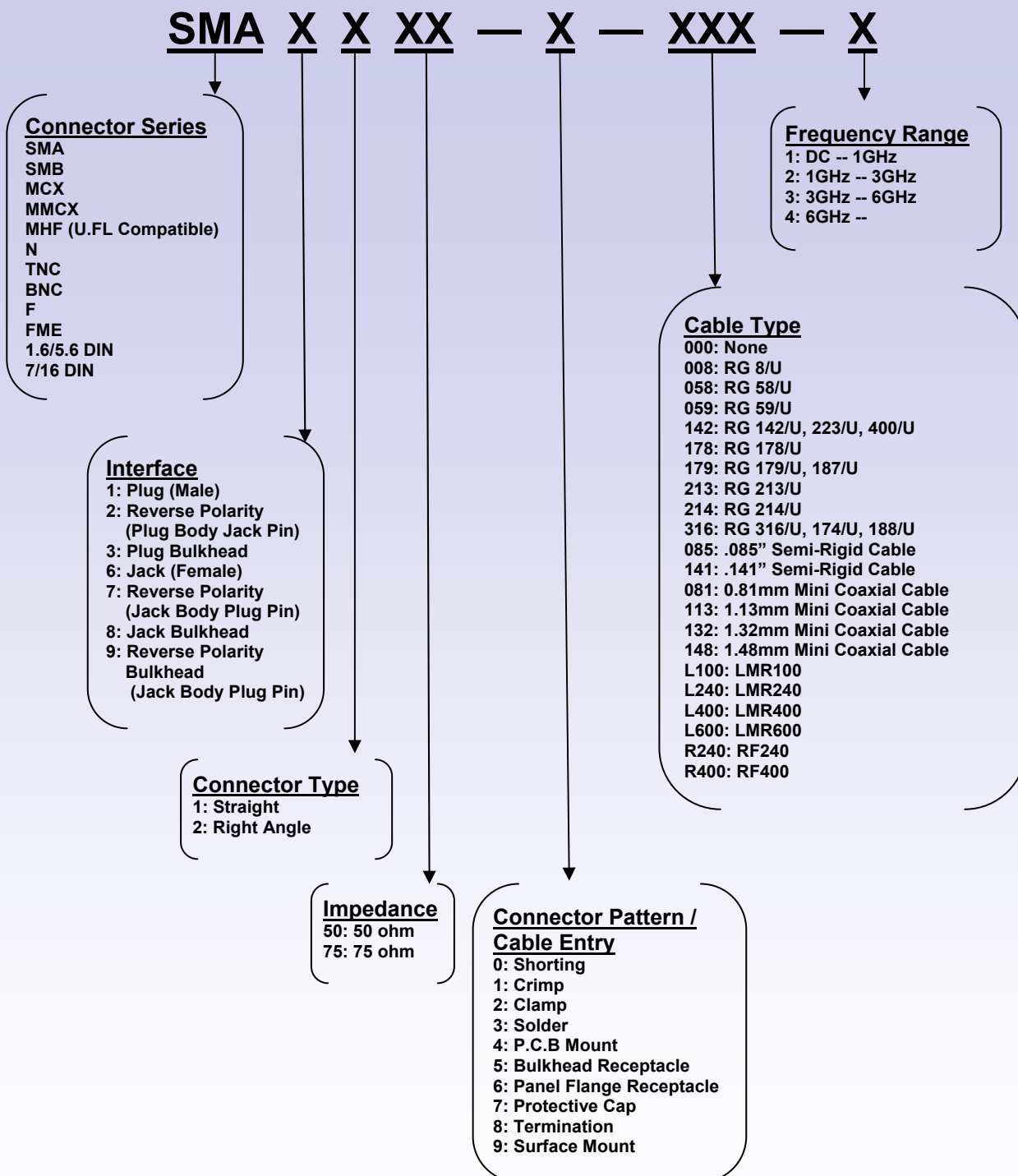
SMA	Subminiature Connectors Screw Lock	50 Ω	18 GHz
SMB	Subminiature Connectors	50 Ω	4 GHz
	Snap Lock	75 Ω	3 GHz
MCX	Microax Connectors	50 Ω	6 GHz
	Snap Lock	75 Ω	3 GHz
MMCX	Miniature Microax Connectors Snap Lock	50 Ω	6 GHz
N	Coaxial Connectors	50 Ω	11 GHz
	Screw Lock	75 Ω	1.5 GHz
TNC	Coaxial Miniature Connectors	50 Ω	11 GHz
	Screw Lock	75 Ω	1 GHz
BNC	Coaxial Miniature Connectors	50 Ω	4 GHz
	Bayonet Lock	75 Ω	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

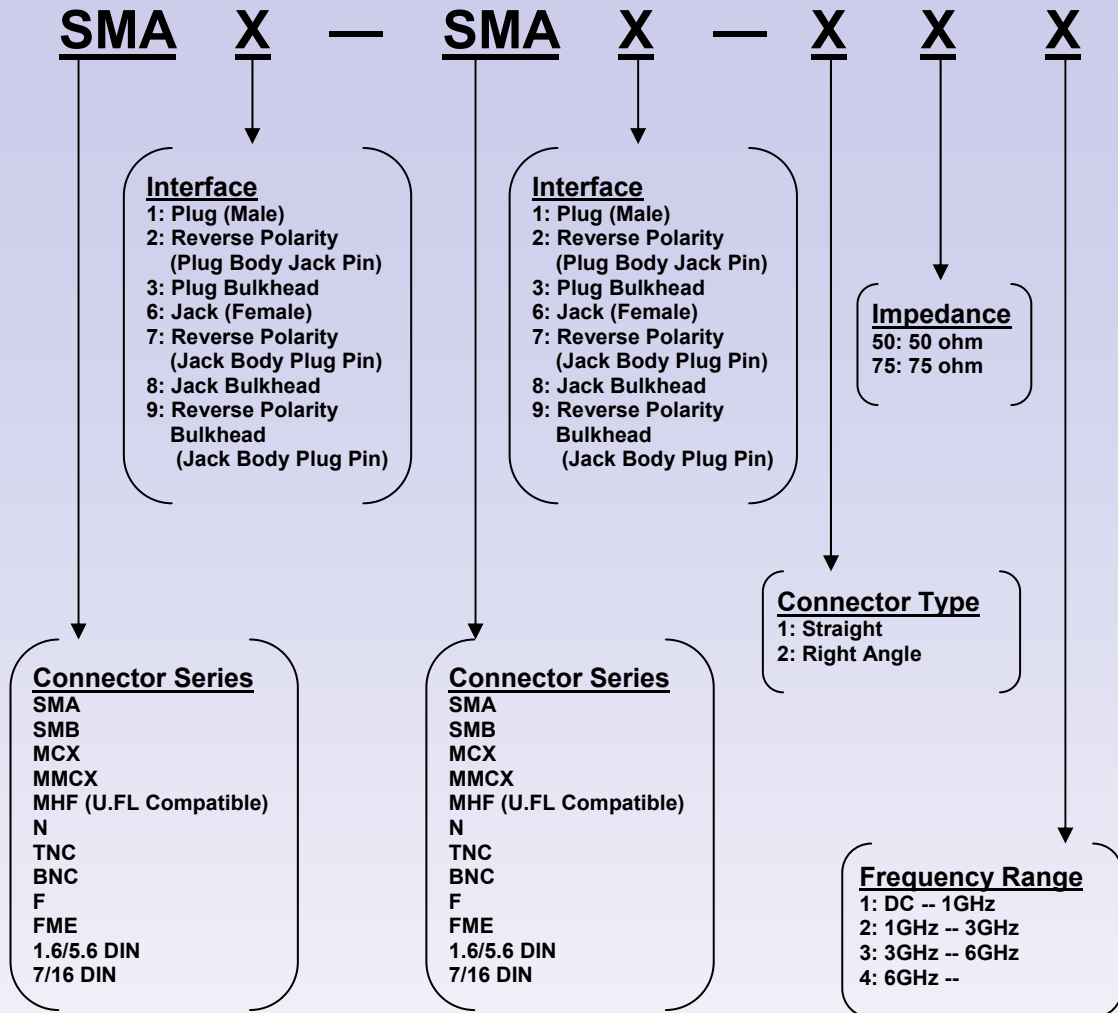


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RF Adapter Number Legend

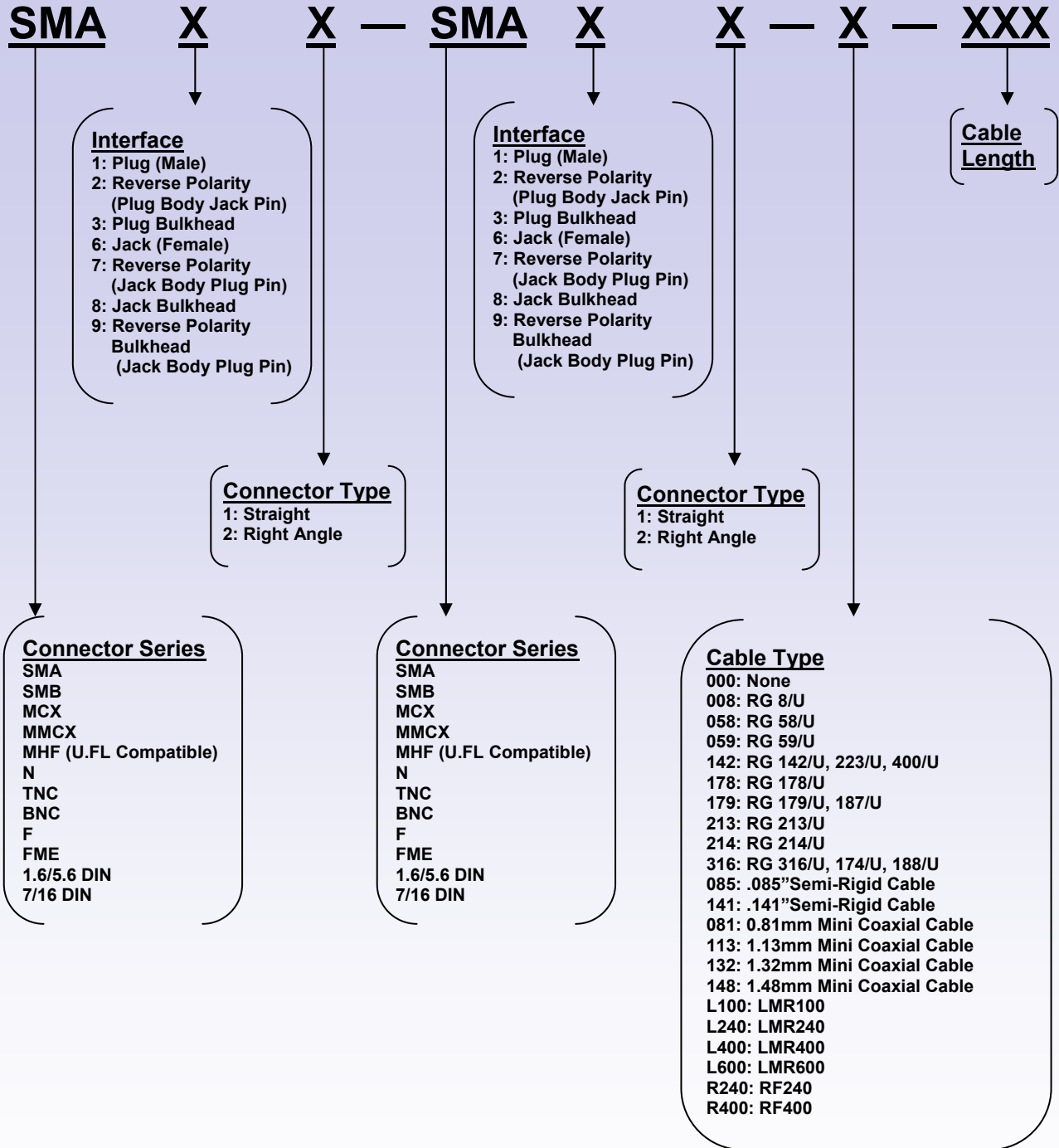


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RF Cable Assembly Number Legend



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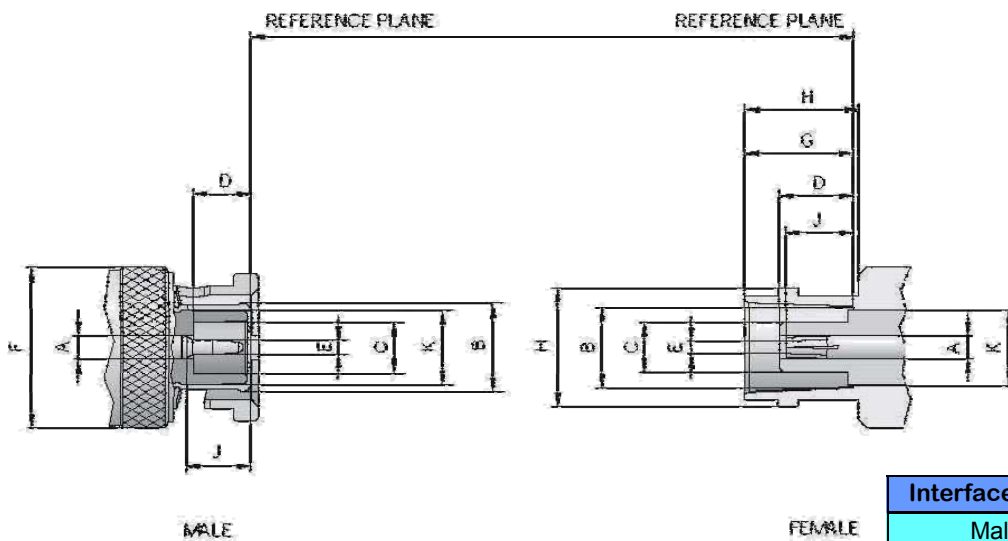
BNC SERIES

The BNC Series, coaxial miniature connectors is one of the most popular and versatile connector series in a wide variety of styles, which is with a two-stud quick disconnect bayonet locking system and particularly useful for frequently coupled and uncoupled RF connections.

Applications:

- ◆ Antennas
- ◆ Broadcast (75Ω)
- ◆ Components
- ◆ Oscilloscopes
- ◆ Radios
- ◆ Telecom
- ◆ Automotive
- ◆ Cable Assemblies
- ◆ Computer/LANs
- ◆ Medical Equipment
- ◆ Satcom
- ◆ Base Stations
- ◆ Cable Modems
- ◆ Instrumentation
- ◆ Mil/Aero
- ◆ Surge Protection

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		15.06	F	10.52	
G			G	8.31	8.51
H			H	10.97	11.07
J	5.33	5.84	I	4.72	5.23
K	7.00 nom		K	7.00 nom	

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BNC SERIES

Technical Characteristics

Electrical

Impedance	50 ohm / 75 ohm	
Frequency Range	0 – 4 GHz/ 0 – 1 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 or Zinc Alloy	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

Mating	Two Stud Bayonet Coupling
Engagement Force	2.5 in-lbs. max. torque
Disengagement Force	3 lbs. max. axial force
Coupling Nut Retention	100 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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BNC SERIES

50 ohm

BNC1150-1-XXX
BNC STR. PLUG CRIMP TYPE

Suitable Cable:

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



BNC1150-2-XXX
BNC STR. PLUG CLAMP TYPE

Suitable Cable:

- (1)RG58
- (2)RG8, RG213, RG393



BNC1150-2-XXX
BNC STR. PLUG CLAMP TYPE

Suitable Cable:

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



BNC1250-1-XXX
BNC R/A PLUG CRIMP TYPE

Suitable Cable:

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



BNC6150-4
BNC STR. JACK P.C.B. MOUNT



BNC6150-4
BNC STR. JACK P.C.B. MOUNT



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BNC SERIES

50 ohm

BNC6150-5
BNC STR. JACK BULKHEAD RECEPTACLE



BNC8150-1-XXX
BNC STR. JACK BULKHEAD CRIMP TYPE
Suitable Cable:
(1)RG58
(2)RG174, RG188, RG316
(3)RD316



BNC8150-3-XXX
BNC STR. JACK BULKHEAD SOLDER TYPE
Suitable Semi-Rigid Cable:
(1) .085
(2) .141



BNC8250-4
BNC R/A JACK BULKHEAD P.C.B. MOUNT



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BNC SERIES

75 ohm

BNC1175-2-XXX

75 ohm BNC STR. PLUG CLAMP TYPE

Suitable Cable:

(1)RG59

(2)RG6

(3)RG11



BNC6175-1-XXX

75 ohm BNC STR. JACK CRIMP TYPE

Suitable Cable:

(1)RG59

(2)RG179



BNC8175-1-XXX

75 ohm BNC STR. JACK BULKHEAD

CRIMP TYPE

Suitable Cable:

(1)RG59

(2)RG179



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