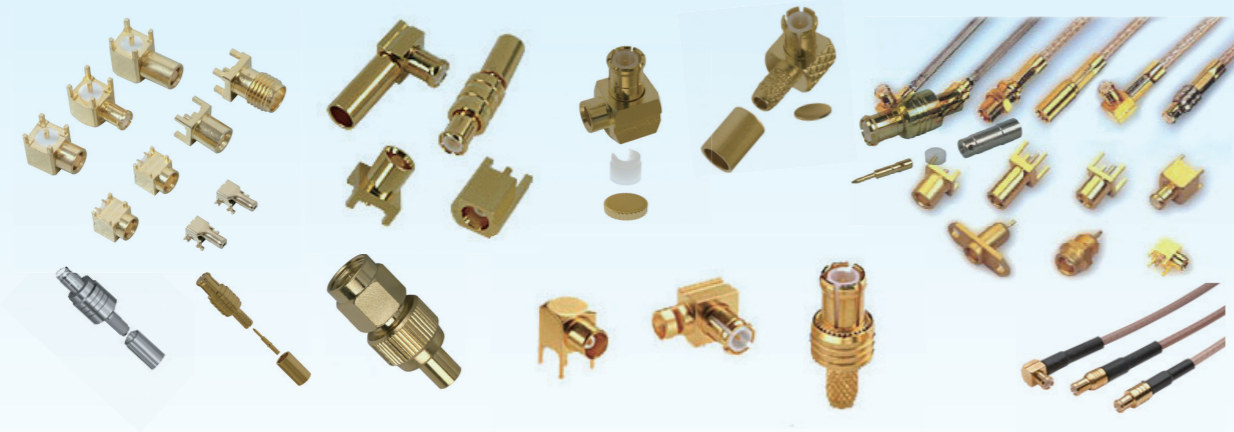


# RF Feeder System

## RF Coaxial Connector Series

### MCX Type Connectors

The insert lock-characteristic impedance of type MCX series product is 50Ω. The MCX type connectors have the advantages of small, light, high reliability and superior performance, and they are widely used in the field where space is specially required.



#### Technical Characteristics

##### Electric Characteristics

Characteristic Impedance	50Ω
Frequency Range	0~6GHz
Working Voltage	250V
Withstanding Voltage	≥750V
Insulation Resistance	≥1000MΩ
Contact Resistance	—
Outer Conductor	≤2.5mΩ
Center Conductor	≤5mΩ
Voltage Standing Wave Ratio	—
Straight	≤1.2(≤1GHz)
Right Angle	≤1.45(≤1GHz)
Insertion Loss	≤0.18dB(1GHz)

##### Mechanical Characteristics

Center Conductor Retention Force	≥0.28N
Durability	≥500 (cycles)



##### Environmental

Working Temperature	-55℃~+155℃
Relative Humidity	≤95% (40℃±2℃)
Atmospheric Pressure	70~106KPa

#### Material & Plating

Name	Materials	Electroplate
Body	Brass	Nickel Plated
Outer Conductor	Brass	Gold Plated
Center Conductor	Beryllium Bronze	Gold Plated
Crimp Ferrule	Copper Alloy	Nickel Plated
Insulator	PTFE	—
O-ring Sealing	Silicone Rubber	—

#### Application Standard

IEC60169-3

# RF Feeder System

## RF Coaxial Connector Series

### Adaptors

Adaptor is the basic product that used in the connection cables with different interface. There are two kinds of them: within-type adaptor and inter-type adaptor. It has the same technical special characteristic with same class product.



### 7/16-7/16, 7/16-N Type

Technical Characteristics	
Temperature Scope	-40~+85℃
Relative Humidity	≤95%
Atmospheric Pressure	70~106KPa
Characteristic Impedance	50Ω
Frequency Range	DC~7.5GH
Working Voltage	1000V
Withstanding Voltage	≥2500V
Insulation Resistance	≥10000MΩ
Contact Resistance	—
Outer Conductor	≤0.25mΩ
Center Conductor	≤1.0mΩ
Voltage Standing Wave Ratio	—
Straight	≤1.10 (≤2.2G)
Right Angle	≤1.15 (≤2.2G)
3rd Order Intermodulation at 2x20w	≤-150dBc
Insertion Loss	≤0.08dB (@2.2GHz)
Durability (Mating)	≥500 cycles



### N-N, N-7/16, N-TNC, N-BNC Type

Technical Characteristics	
Temperature Scope	-40~+85℃
Relative Humidity	≤95%
Atmospheric Pressure	70~106KPa
Characteristic Impedance	50Ω
Frequency Range	DC~11GHz
Working Voltage	1000V
Withstand Voltage	≥2500V
Insulation Resistance	≥5000MΩ
Contact Resistance	—
Outer Conductor	≤0.25mΩ
Center Conductor	≤1.0mΩ
Voltage Standing Wave Ratio	—
Straight	≤1.10 (2.2GHZ)
Right Angle	≤1.15 (≤2.2GHZ)
Durability	≥500 (cycles)

### Material & Plating

Name	Materials	Electroplate
Outer Conductor	Brass	CuSnZn or Nickel Plated
Center Conductor	Tin or Beryllium Bronze	Silver or Gold Plated
Crimp Ferrule	Brass	Nickel Plated
Insulator	PTFE	—
O-ring Sealing	Silicone Rubber	—

## BNC-SMB, BNC-SMA Type

Technical Characteristics	
Characteristic Impedance	50Ω, 75Ω
Frequency Range	DC~4.0GHz
Working Voltage	500V
Withstanding Voltage	≥1500V
Insulation Resistance	1000MΩ
Contact Resistance	—
Outer Conductor	≤10mΩ
Center Conductor	≤1.5mΩ
Voltage Standing Wave Ratio	—
Straight	≤1.22(≤3GHz)
Right Angle	≤1.30(≤3GHz)
Mechanical Characteristics	
Center Conductor Retention Force	≥0.56N
Durability (Mating)	≥500 (cycles)

## SMB-SMA Type

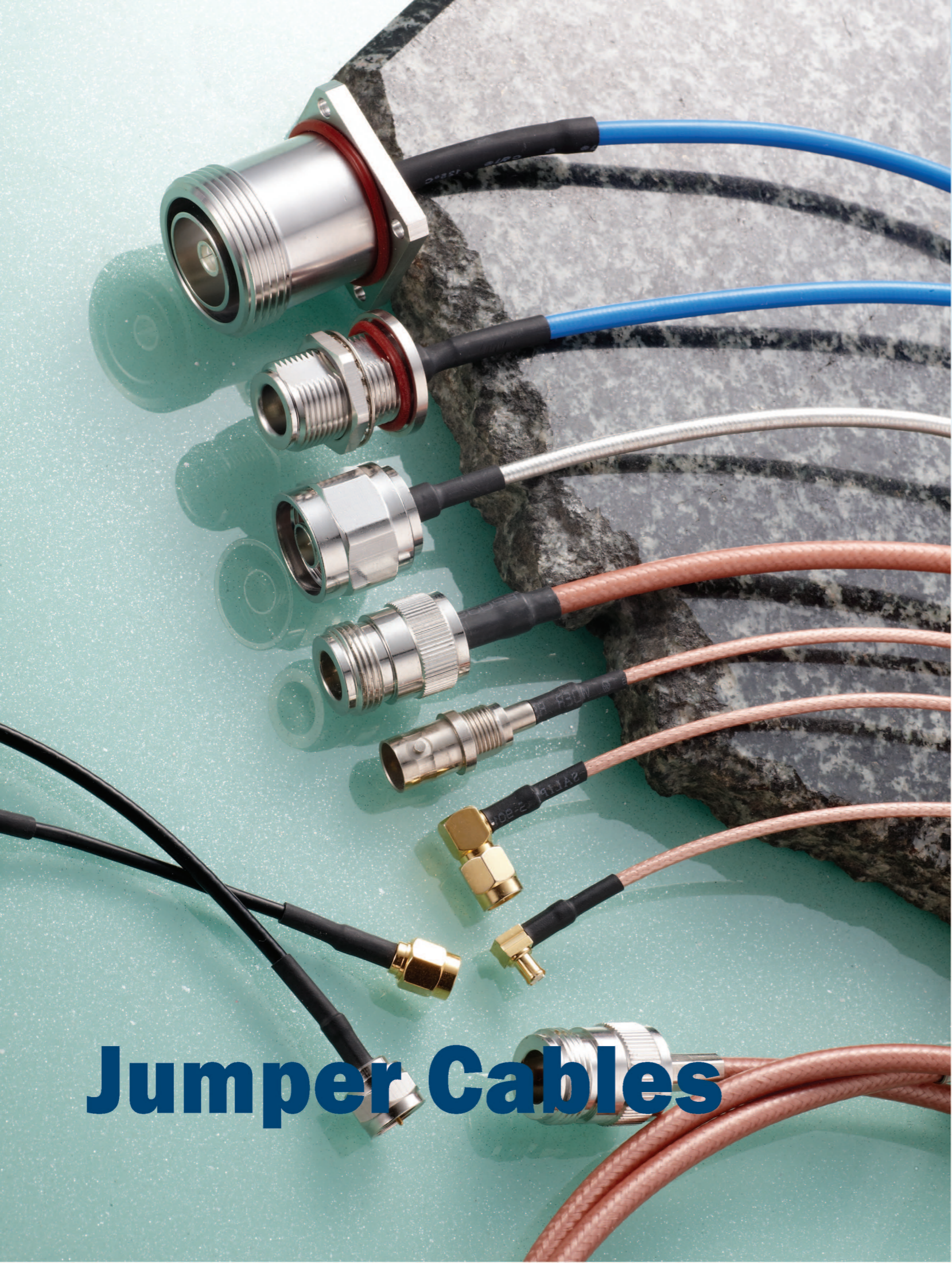
Technical Characteristics	
Temperature Scope	-40~+85℃
Relative Humidity	≤95%(40℃±2℃)
Atmospheric Pressure	70~106KPa
Characteristic Impedance	50Ω
Frequency Range	0~4GHz
Working Voltage	330V
Withstanding Voltage	≥1000V
Insulation Resistance	≥1000MΩ
Contact Resistance	—
Outer Conductor	≤1mΩ
Center Conductor	≤6mΩ
Voltage Standing Wave Ratio	—
Straight	≤1.34(≤3GHz)
Right Angle	≤1.45(≤1GHz)
Insertion Loss	≤0.3dB(1.5GHz)
Durability (Mating)	≥500 (cycles)

## SMA-N Type

Technical Characteristics	
Temperature Scope	-40~+85℃
Relative Humidity	≤95%(40℃±2℃)
Atmospheric Pressure	70~106KPa
Characteristic Impedance	50Ω
Frequency Range	0~12.4GHz
Working Voltage	330V
Withstanding Voltage	≥1000V
Insulation Resistance	≥5000MΩ
Contact Resistance	—
Outer Conductor	≤2.5mΩ
Center Conductor	≤3mΩ
Voltage Standing Wave Ratio	—
Straight	≤1.10(≤3GHz)
Right Angle	≤1.20(≤3GHz)
Insertion Loss	≤0.15dB(6GHz)
Durability (Mating)	≥500 (cycles)

## TNC-BNC, TNC-SMA, Type

Technical Characteristics	
Tempe. Range	-40~+85℃
Characteristic Impedance	50Ω
Frequency Range	DC~7.5GHz
Working Voltage	500V
Withstanding Voltage	1500V
Insulation Resistance	≥5000MΩ
Contact Resistance	—
Outer Conductor	≤0.2mΩ
Center Conductor	≤0.4mΩ
Voltage Standing Wave Ratio	—
Straight	≤1.22(≤3GHz)
Right Angle	≤1.30(≤3GHz)
Mechanical Characteristics	
Center Conductor Retention Force	≥0.56N
Durability	≥500 (cycles)



# Jumper Cables

## RF Feeder System Jumper Cable Series Jumper Cables

The jumper cables produced by kingsignal provide the ideal combination of low-loss, high-strength and highest flexibility for optimum performance. They are mainly used between main feeders and antennas or between main feeders and system equipment.



Technical Characteristics	
Temp. Scope	-40~+85℃
Characteristic Impedance	50Ω
Frequency Range	DC~7.5GHz
Working Voltage	1500V
Withstanding Voltage	≥4000V
Insulation Resistance	≥10000MΩ
Contact Resistance	—
Outer Conductor	≤0.2mΩ
Center Conductor	≤0.4 mΩ
Voltage Standing Wave Ratio	—
Straight	≤1.10(≤2.2G)
Right Angle	≤1.15(≤2.2G)
3rd Order Intermodulation at 2x20w	≤-150dBc
Durability (Mating)	≥500 (cycles)

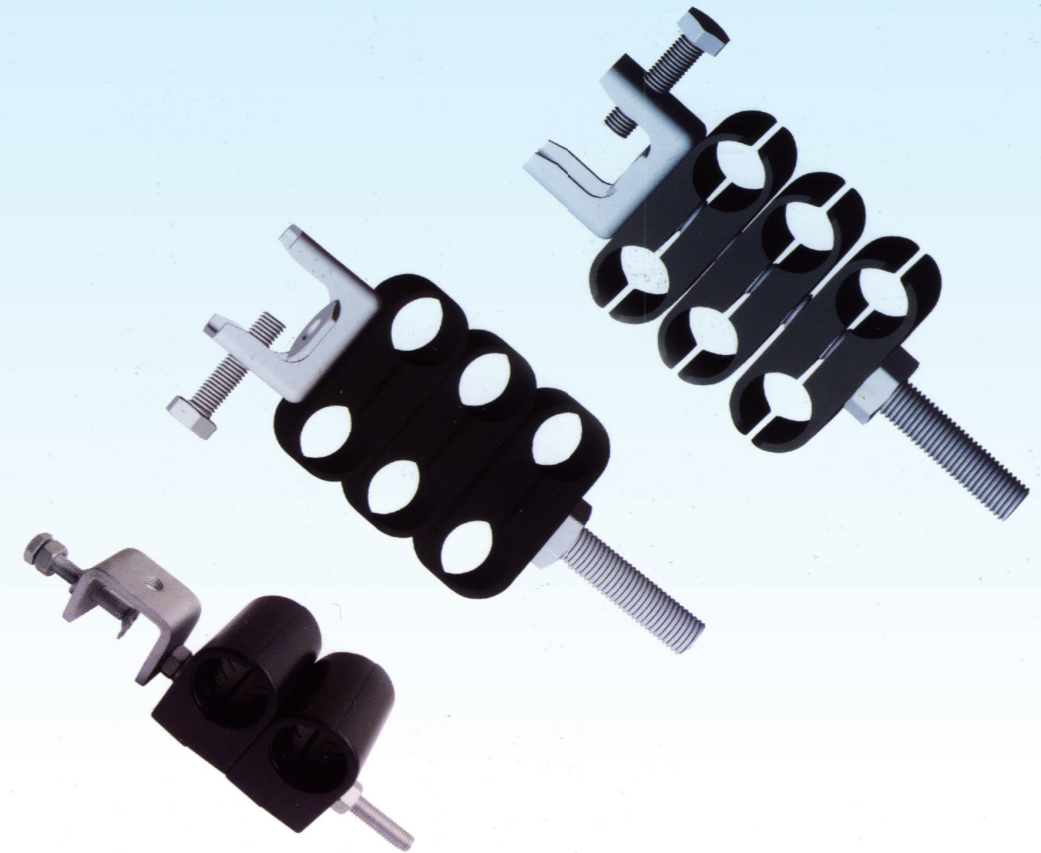
# RF Feeder System

## Accessories for Antenna Feeder Clamping Kits

Clamping kits are widely used in site installation to fix feeder cables to base towers (BTS). They are designed for different BTS site installation with various kinds of antenna systems, and these clamping kits are suitable for various size of coaxial cable like 1/4" , 3/8" , 1/2" , 7/8" , 1-1/4" . The material of these products is high standard stainless steel and high quality ABS.



Technical Characteristics	
Temp. Scope	-55°C+85°C
Pressure Resistance	≥5000N
Vibration	200m/S2 (10~500Hz)
Anti-aging	Xenon Lamp Experiment 300 Hours



### Through Type

Name	Materials	Electroplate
U-Piece	Stainless Steel, Carbon Steel	Dacrotized
Fastener	Stainless Steel, Carbon Steel	Dacrotized
Plastic Patch	Modified Polypropylene or ABS-Engineering Plastic	—

### Wall Type

Name	Materials	Electroplate
U-Piece	Stainless Steel, Carbon Steel	Dacrotized
Fastener	Stainless Steel, Carbon Steel	Dacrotized
Plastic Patch	Modified Polypropylene or ABS-Engineering Plastic	—