

QC-SMA™ Quick Connect

SMA Plug Connectors



Kings products, like the QC-SMA™ Quick Connect SMA Plugs, are now sold under the Kings-Win® brand from Winchester Interconnect™

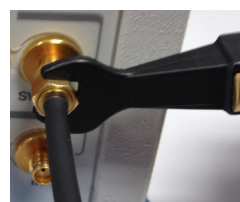
Product Description

QC-SMA™ Quick Connect SMA Plugs feature a push / pull coupling mechanism that is fast and easy to use.

QC-SMA™ Plugs are a great alternative to threaded SMA connectors in testing applications because technicians can quickly mate and unmate these connectors without the use of torque wrenches.

Electrical performance for QC-SMA™ Plugs is comparable to standard SMA connectors up to 18 GHz, depending upon the cable type.

QC-SMA™ Plugs mate to any SMA Jack with a .200" thread length and, once mated, they can be rotated 360 degrees.



QC-SMA™ Plugs are easy to insert and remove. Pull back the shroud to open the connector; insert the connector onto the SMA Jack; and push the shroud forward to lock the connector. To unmate, simply pull back on the shroud and the connector unlocks and can be removed. Easy!

QC-SMA™ Plugs mate to any standard SMA Jack with a thread length of .200" in order for the locking fingers to engage with the last thread position.

QC-SMA™ push / pull coupling mechanism is much faster and easier to mate and unmate than a threaded SMA and eliminates the added time of using wrenches to install and remove connectors.

 **Winchester**
Interconnect.

We Energize Innovation.

Specifications

Electrical

Impedance

50 Ohms

Frequency Range

DC to 18 GHz max
(see table)

VSWR

Straight

1.10 + .01 x f (GHz) Max

R/A

1.15 + .02 x f (GHz) Max

Insertion Loss

Straight

.04 x √f(GHz) Max

R/A

.07 x √f(GHz) Max

Insulation

Resistance

5000 Megohms Min

Voltage Rating

250 VRMS for
RG316 / RD316

335 VRMS for
Adapters/
RG405/RG402

Mechanical

Durability

500 Cycles Min

Coupling Method

Push / Pull

Mating/

Unmating Force

20 lbs. Max

Retention Force

30 lbs. Min

Material

Body

Copper Alloy

Outer Contacts

Copper Alloy

Center Contacts

Copper Alloy or Brass

Insulator

PTFE

Ferrule

Copper Alloy

Finishes

Body

Nickel over Copper

Center Contacts

Gold over Nickel

Ferrule

Nickel over Copper

Environmental

Temperature Rating

-65°C to +165°C

Corrosion

Resistance

MIL-STD-202,
Method 101, Cond B

Vibration

MIL-STD-202,
Method 204, Cond B

Shock

MIL-STD-202,
Method 213, Cond A

Part Numbers

Part Number	Description	Cable Size	Crimp Die (KTH-1000)	Hex Size	Frequency
110-900-0630N	Straight Plug	RG-316	KTH-2011	0.128	6 GHz
112-900-0630N	Right-Angle Plug	RG-316	KTH-2011	0.128	6 GHz
110-900-0631N	Straight Plug	M17/152-00001 (RD-316)	KTH-2015	0.151	12 GHz
112-900-0631N	Right-Angle Plug	M17/152-00001 (RD-316)	KTH-2015	0.151	12 GHz
110-500-0850N	Straight Plug	RG-405 (0.085)	N/A	N/A	18 GHz
110-500-1410N	Straight Plug	RG-402 (0.141)	N/A	N/A	18 GHz
0116-300-08501N	Right-Angle Plug	RG-405 (0.085)	N/A	N/A	18 GHz
0116-300-14101N	Right-Angle Plug	RG-402 (0.141)	N/A	N/A	18 GHz



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