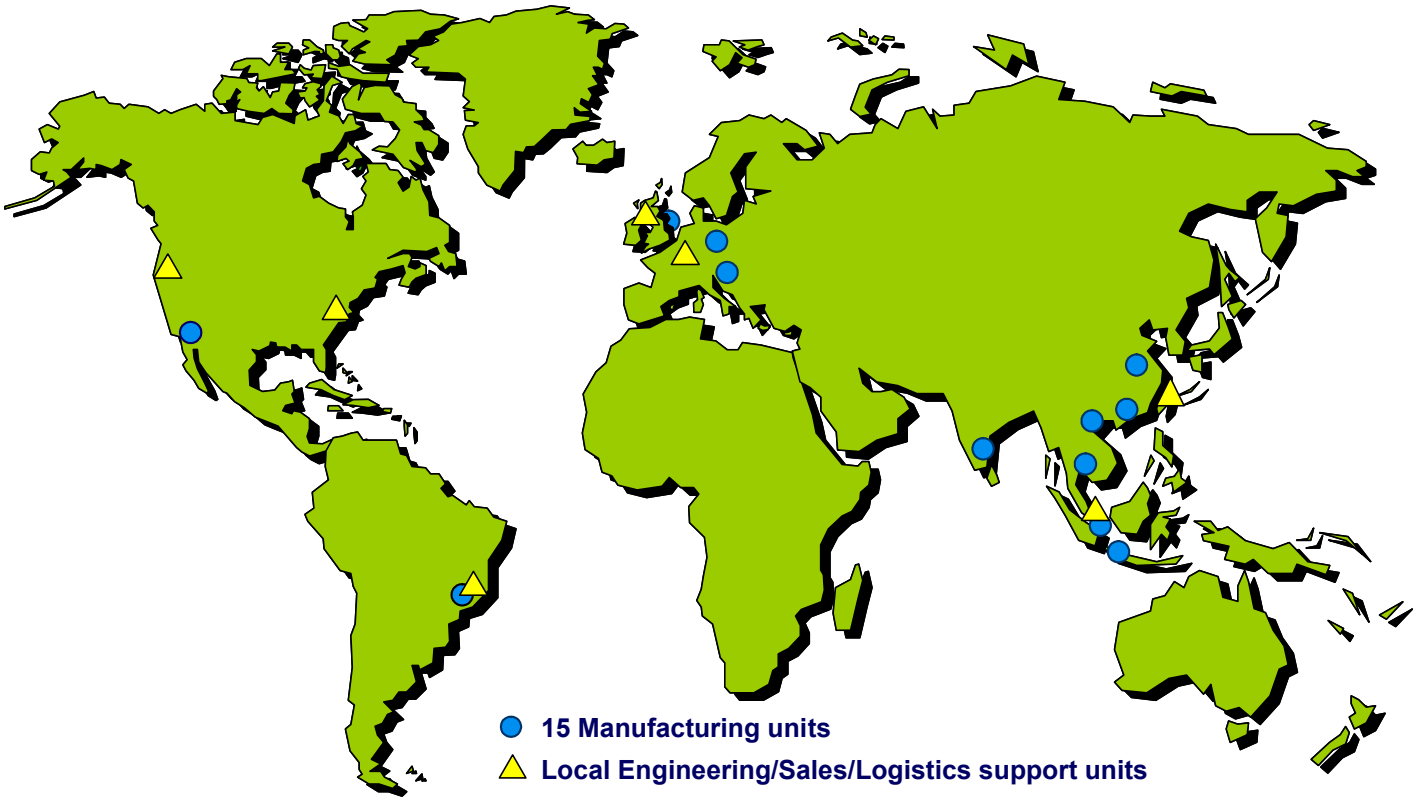
Volex RF Connector Catalog

Spring 2007

Volex

Volex Group Global Footprint



Introduction to Volex Connector

Volex Connector designs, manufactures and sells RF connectors and adapters for signal (voice/data) transmission. Whether the need be for a standard off-the-shelf product or a custom design for an application specific solution, Volex Connector can meet your needs.

With headquarters in Hickory, North Carolina, Volex Connector has representatives covering all areas of North America and Europe. A provider for both the commercial and military markets, Volex Connector solves the RF connection needs for applications associated with:

- Wireless communications
- Internet solutions
- Broadband communications
- Mil/Aero equipment
- Instrumentation

Volex Connector is focused on quick delivery of standard products and quick turnaround of designs/samples for application specific needs. Our manufacturing locations are located in multiple facilities in mainland China. All facilities utilize state of the art high precision turning and milling equipment.

All manufacturing facilities and their external vendors such as plating and casting suppliers have all been certified to ISO 9001:2000.

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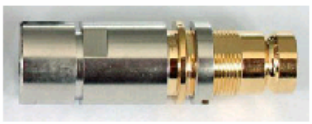
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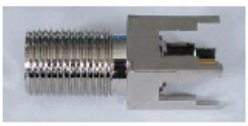
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MINI-UHF

Blank

BNC Connector

The BNC connector is a commercial quality product that intermates with all standard double bayonet stud BNC designs. All contacts are captivated for ruggedness. The 50 ohm and 75 ohm interfaces are intermateable and provide quick, reliable connections for instrumentation, medical and LAN applications.

Specifications

Electrical Characteristics
Impedance: 50 (75 Ohm) nominal(except where noted)
Frequency range: 0-4 GHz(0-1GHz)
Working voltage: 500 volts RMS at sea level
Dielectric withstanding voltage: 1500 volts RMS at sea level
Contact resistance: Outer-0.4 milliohms maximum
Center-1.5 milliohms maximum
Insulation resistance: 5000 megohms minimum

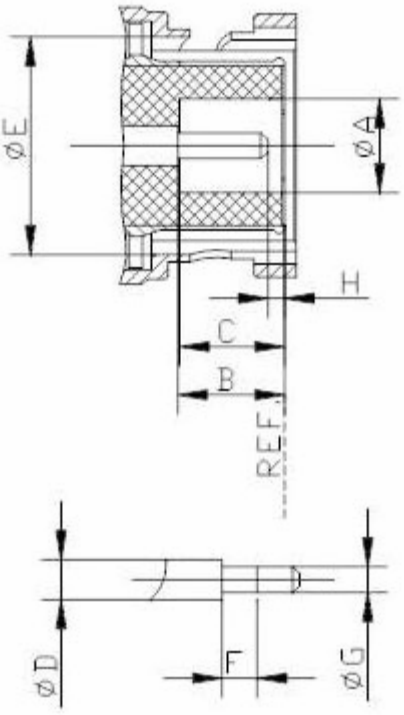
Environmental Characteristics
Recommended temperature range: -55□ to +85□

Mechanical Characteristics
Durability: 500 cycles

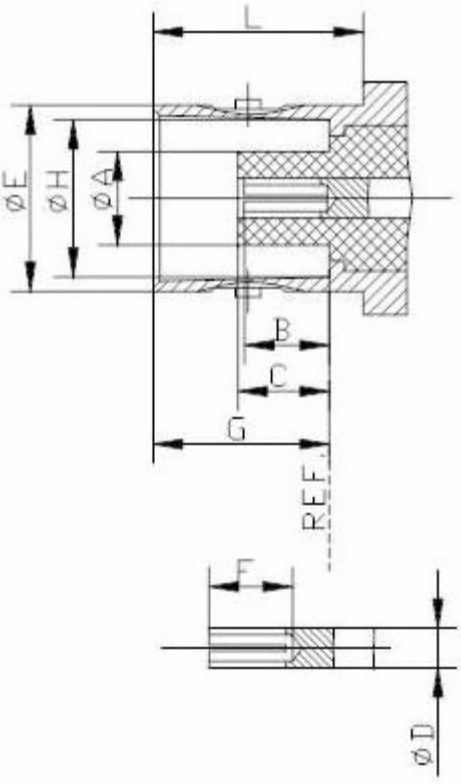
Materials
Body and coupling nut: Zinc or brass
Contact: Beryllium copper, phosphor bronze or brass
Crimp Sleeve: Brass
Insulator: Teflon
Hardware: Brass
Plating: Body – Nickel
Crimp sleeve – Nickel
Hardware – nickel
Contact - Gold

* These values are typical and may not apply to all connectors

PLUG



JACK



BNC Connector

	PLUG		JACK	
	Min	Max	Min	Max
A	4.83	-	-	4.72
B	5.33	5.84	4.72	5.23
C	5.28	5.79	4.78	5.28
D	2.06	2.21	2.06	2.21
E	9.78	9.91	9.60	9.70
F	1.98	-	4.95	-
G	1.32	1.37	8.31	8.51
H	0.08	-	8.10	8.15
I		-	10.52	-

Product listing:

Straight Crimp Type Plug

Straight Cramp Plug

Straight Bulkhead Plug

Flange Mount Type Plug

Dust Cap With Chain

Straight Crimp Type Jack

BNC Connector

Front Mount Bulkhead Jack Receptacle

Front Mount Bulkhead Jack Receptacle

Front Mount Bulkhead Jack Receptacle

Straight Jack Receptacle

Right Angle Jack Receptacle

Flange Mount Type Jack

Jack To Plug Adapter

Jack To Jack Adapter

BNC Connector

Bulkhead Jack To Jack Adapter

Bulkhead Jack To Jack Adapter

Plug To Plug Adapter

Jack To Jack To Jack T Adapter

Jack To Jack To Plug T Adapter

Jack To Plug To Jack T Adapter

Jack To Plug Right Angle Adapter

Plug To Jack To Jack Goal Post T Adapter

TNC Connector

The TNC connector is a threaded version of the BNC mating interface. All contacts are captivated for ruggedness. The TNC is a commercial quality connector that provides addition for shock and vibration applications. The TNC connector intermates with all standard 50 Ohm TNC connectors.

Specifications

Electrical Characteristics
Impedance: 50 Ohm nominal(except where noted)
Frequency range: 0-11 GHz
Working voltage: 500 volts RMS at sea level
Dielectric withstanding voltage: 1500 volts RMS at sea level
Contact resistance: Outer-0.4 milliohms maximum
Center-1.5 milliohms maximum
Insulation resistance: 5000 megohms minimum

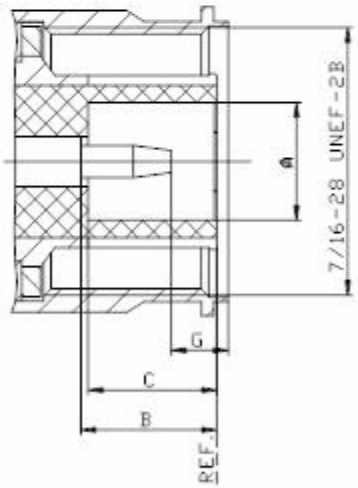
Environmental Characteristics
Recommended temperature range: -55□ to +85□

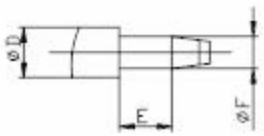
Mechanical Characteristics
Durability: 500 cycles

Materials
Body and coupling nut: Zinc or brass
Contact: Beryllium copper, phosphor bronze or brass
Crimp Sleeve: Brass
Insulator: Teflon
Hardware: Brass
Plating: Body – Nickel
Crimp sleeve – Nickel
Hardware – nickel
Contact - Gold

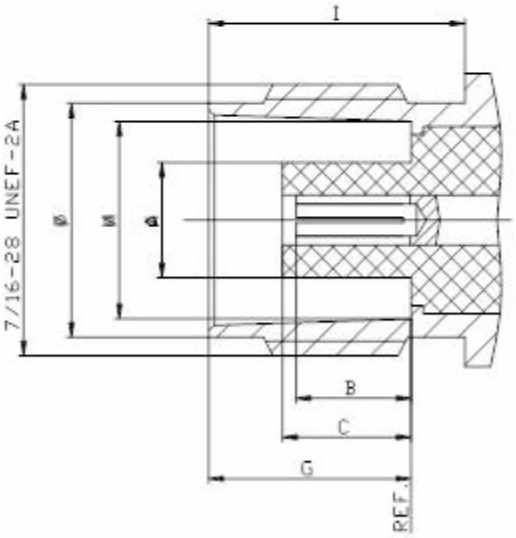
* These values are typical and may not apply to all connectors

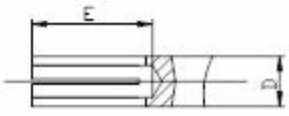
PLUG





JACK





TNC Connector

	PLUG		JACK	
	Min	Max	Min	Max
A	4.83	-	-	4.72
B	5.33	5.84	4.72	5.23
C	5.28	5.79	4.78	5.28
D	2.06	2.21	2.06	2.21
E	1.98	-	4.95	-
F	1.32	1.37	9.60	9.70
G	0.08	-	8.31	8.51
H	-	-	8.10	8.15
I	-	-	10.52	-

Product listing:

Straight Crimp Type Plug

Jack To Jack Adapter

Jack To Bulkhead Jack Adapter

Flange Mount Type Jack

Straight Crimp Type Jack

Straight Crimp Type Jack

SMA Connector

The SMA threaded interface connectors are designed for higher frequency applications where maximum reliability and robustness is required. This connector range is suitable for the standard ranges of flexible and semi rigid cables and is also available as a PCB mounted version.

Specifications

Electrical Characteristics
Impedance: 50 Ohm nominal(except where noted)
Frequency range: 0-18 GHz
Working voltage: 250 volts RMS at sea level
Dielectric withstanding voltage: 750 volts RMS at sea level
Contact resistance: Outer-2.5 milliohms maximum
Center-3.0 milliohms maximum
Insulation resistance: 5000 megohms minimum

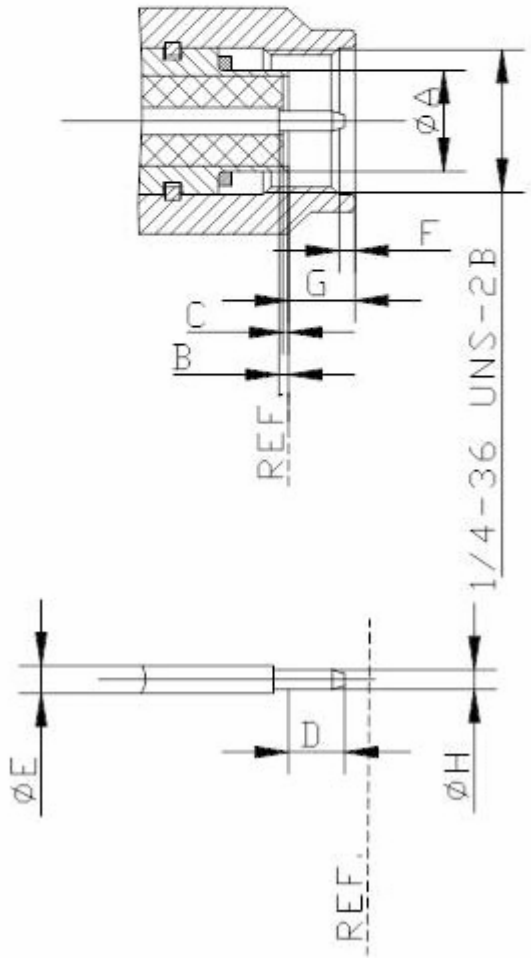
Environmental Characteristics
Recommended temperature range: -55□ to +85□

Mechanical Characteristics
Durability: 500 cycles

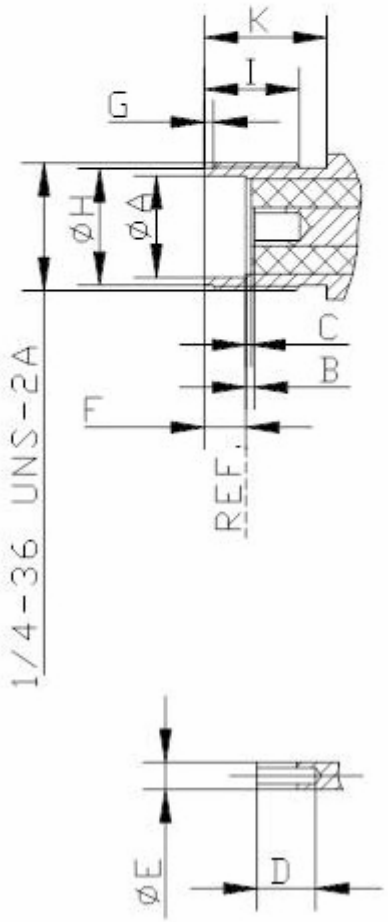
Materials
Body and coupling nut: Zinc or brass
Contact: Beryllium copper, phosphor bronze or brass
Crimp Sleeve: Brass
Insulator: Teflon
Hardware: Brass
Plating: Body - Nickel or gold
Crimp sleeve - Nickel
Hardware - nickel or gold
Contact - Gold

* These values are typical and may not apply to all connectors

PLUG



JACK



SMA Connector

	PLUG		JACK	
	Min	Max	Min	Max
A	-	4.59	4.59	-
B	0.00	0.25	0.00	0.25
C	0.00	0.25	0.00	0.25
D	-	2.54	2.67	-
E	1.24	1.29	1.24	1.29
F	0.38	1.14	1.88	1.98
G	-	3.43	0.38	1.14
H	0.90	0.94	5.28	5.49
I	-	-	4.32	-
K	-	-	5.54	-

Product listing:

Straight Crimp Type Plug

Straight Plug (Semi-Rigid)

Right Angle Crimp Type Plug

Right Angle Plug (Semi-Rigid)

Right Angle Crimp Type Jack

Straight Crimp Type Jack

SMA Connector

Flange Mount Jack Receptacle

Plug To Plug Adapter

Jack To Jack Adapter

Straight Plug

Straight Plug

Straight Plug

Straight Plug

Right Angle Plug

Right Angle PCB Jack

Right Angle Plug

SMA Connector

Right Angle Plug

Straight PCB Jack

SMB Connector

The SMB connectors incorporate a 'snap on' latching action for ease of connection. This connector range is suitable for the standard ranges of flexible and semi-rigid cables and is also available in PCB and panel mount versions. The characteristic impedance of the SMB coaxial connectors is 50 or 75 ohm. The 75 ohm version is also known as SMZ coaxial connector. SMB connectors (50 ohm) meet the specification of IEC 169-10, CECC 22130 and MIL-C-39012.

Specifications

Electrical Characteristics
Impedance: 50 Ohm nominal(except where noted)
Frequency range: 0-4GHz
Working voltage: 250 volts RMS at sea level
Dielectric withstanding voltage: 750 volts RMS at sea level
Contact resistance: Center -5 milliohms maximum
Outer -2.5 milliohms maximum
Insulation resistance: 10000 megohms minimum

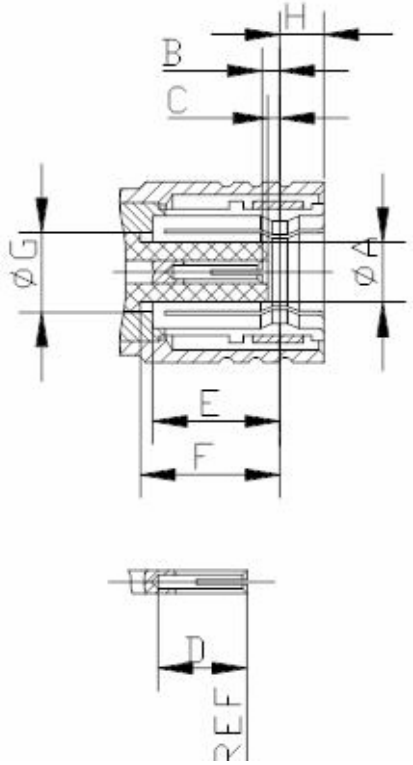
Environmental Characteristics
Recommended temperature range: -65□ to +165□

Mechanical Characteristics
Durability: 500 cycles

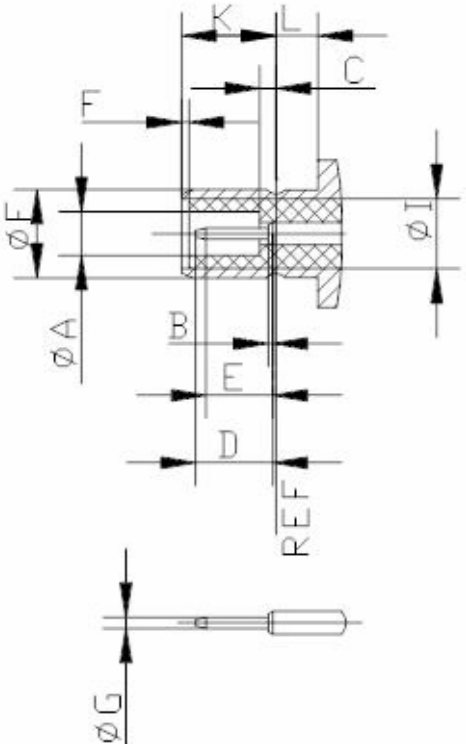
Materials
Body : brass
Contact: Beryllium copper and brass
Crimp Sleeve: Brass
Insulator: Teflon
Hardware: Brass
Plating: Body -Gold
Crimp sleeve -Gold
Hardware -Gold
Contact - Gold

These values are typical and may not apply to all connectors

PLUG



JACK



SMB Connector

	PLUG		JACK	
	Min	Max	Min	Max
A	-	2.06	2.08	-
B	0.18	0.94	-	0.18
C	0.18	-	-	0.18
D	2.97	-	-	2.97
E	3.58	-	1.32	-
F	3.58	-	3.66	3.71
G	3.05	3.05	0.48	0.53
H	-	1.63	0.00	-
I	-	-	3.05	3.05
K	-	-	3.33	3.58
L	-	-	1.65	-

Product listing:

Straight Crimp Type Plug

Right Angle Crimp Type Jack

Right Angle Crimp Type Plug

Straight Crimp Type Jack

Right Angle PCB Jack

SMC Connector

The SMC connectors have been designed with a 'threaded' coupling and have the same size as the SMB connectors. They are particularly suitable for use in high vibration environments. This connector range is suitable for the standard ranges of flexible and semi rigid cables and is also available in PCB and panel mount versions. The characteristic impedance of the SMC coaxial connectors is 50 ohm. SMC coaxial connectors meet the specification of IEC 169-9, CECC 22140 and MIL-C-39012.

Specifications

Electrical Characteristics
Impedance: 50 Ohm nominal(except where noted)
Frequency range: 0-10GHz
Working voltage: 250 volts RMS at sea level
Dielectric withstanding voltage: 750 volts RMS at sea level
Contact resistance: Center -5 milliohms maximum
Outer -2.5 milliohms maximum
Insulation resistance: 10000 megohms minimum

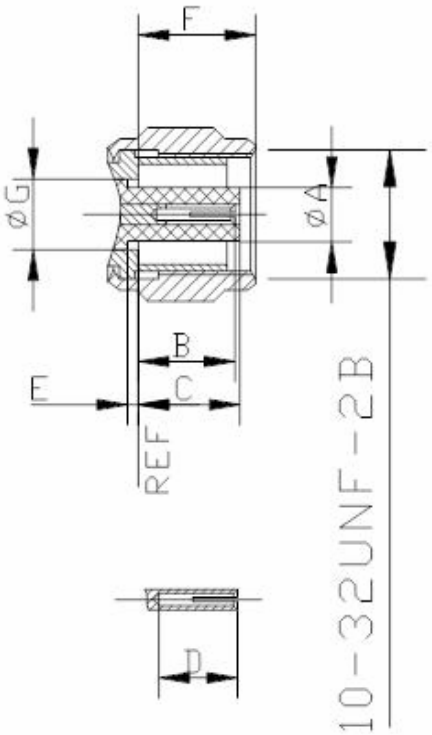
Environmental Characteristics
Recommended temperature range: -65□ to +165□

Mechanical Characteristics
Durability: 500 cycles

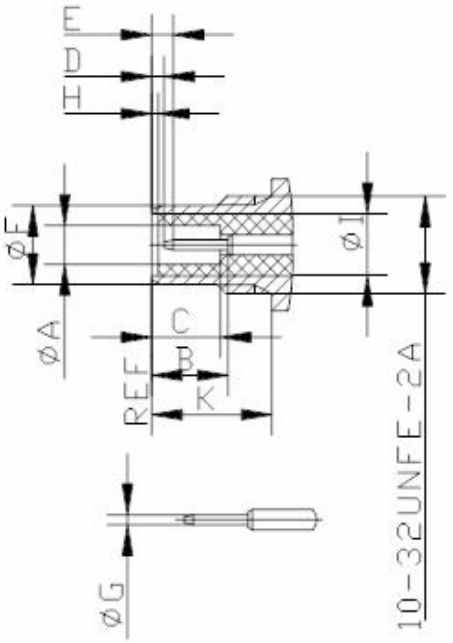
Materials
Body: brass
Contact: Beryllium copper and brass
Crimp Sleeve: Brass
Insulator: Teflon
Hardware: Brass
Plating: Body -Gold
Crimp sleeve -Gold
Hardware -Gold
Contact - Gold

These values are typical and may not apply to all connectors

PLUG



JACK



SMC Connector

	PLUG		JACK	
	Min	Max	Min	Max
A	-	2.60	2.08	-
B	2.85	3.40	3.40	-
C	-	3.40	3.40	-
D	2.79	-	0.61	-
E	0.00	-	-	2.13
F	-	5.92	-	3.71
G	3.05	3.05	0.48	0.53
H	-	-	0.00	-
I	-	-	3.05	3.05
K	-	-	5.94	-

Product listing:

Straight Crimp Type Plug

Straight Crimp Type Jack

Right Angle Crimp Type Jack

Right Angle Crimp Type Plug

SMZ Connector

The complete rang of standard SMZ Type 43, 75 ohm series connectors shown is, where applicable, fully approved to British Standard-BS9210 F0022. The SMZ interconnect system provides front or rear jumpered cable management solutions for Digital Distribution Frames (DDF) which meet the requirements of traditional telecommunication network operators. Precision manufactured components with simple latching mechanism and selective gold plating ensure both high quality and high performance from an industry proven coaxial connector system. SMZ coaxial connectors meet the specification of IEC 169-28.

Specifications

Electrical Characteristics
Impedance: 75 Ohm nominal(except where noted)
Frequency range: 0-3GHz
Working voltage: 500 volts RMS at sea level
Dielectric withstanding voltage: 1500 volts RMS at sea level
Insulation resistance: 5000 megohms minimum

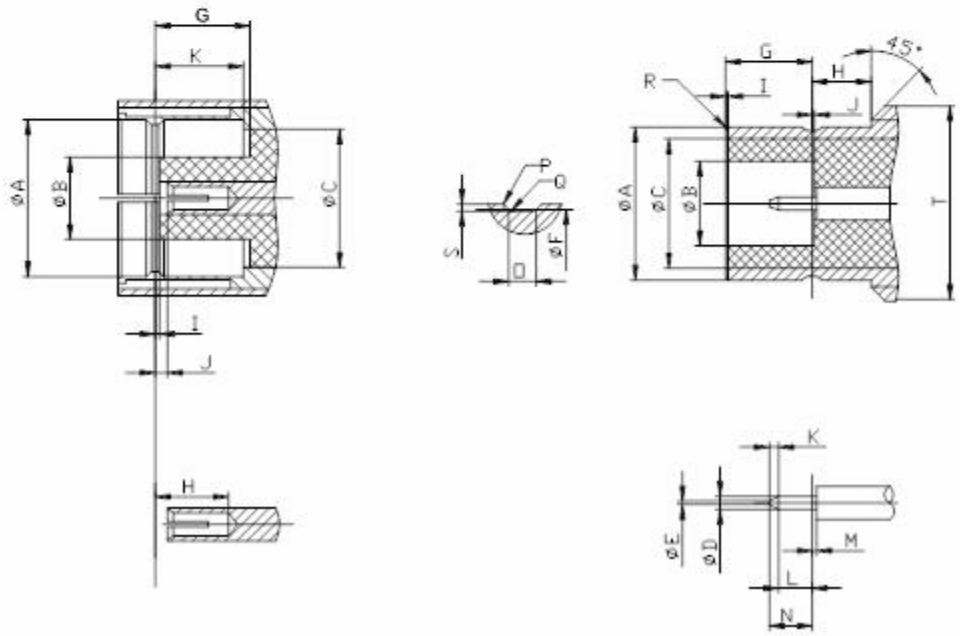
Environmental Characteristics
Recommended temperature range: -40□ to +100□

Mechanical Characteristics
Durability: 500 cycles

Materials
Body : brass
Contact: bronze and brass
Crimp Sleeve: Brass
Insulator: Teflon
Hardware: Brass
Plating: Body -Nickel and Gold
Crimp sleeve -Nickel
Hardware -Nickel
Contact - Gold

These values are typical and may not apply to all connectors

JACK PLUG



SMZ Connector

	PLUG		JACK	
	Min	Max	Min	Max
ØA	6.20	6.25	6.35	-
ØB	3.35	-	-	3.33
ØC	5.60NOM	5.60NOM	5.60NOM	5.60NOM
ØD	0.48	0.53		
ØE	-	0.25		
ØF	5.97	6.07		
G	3.33	3.58	3.58	-
H	2.01	-	2.97	-
I	0.00	-	0.18	-
J	-	0.18	0.18	0.94
K	0.25	-	3.58	-
L	1.32	-		
M	-	0.18		
N	-	2.97		
O	0.58NOM	0.58NOM		
P	0.05	0.15		
Q	-	0.13		
R	0.10	-		
S	0.15	0.25		
T	-	7.94		

SMZ Connector

Product listing:

Straight Crimp Type Plug

Straight Crimp Type Jack

Plug To Jack To Jack Adapter

Blank

MCX Connector

MCX 50 ohm miniature Snap On connectors from SCD Connection offer you an excellent blend of size, weight, durability and performance for applications such as mobile and fixed telecommunications, in GPS applications and Test Measurement systems for testing instruments and apparatus.

MCX Connectors meet the specification of IEC 1169-36 and CECC 22220.

Specifications

Electrical Characteristics
Impedance: 50 (75 Ohm) nominal(except where noted)
Frequency range: 0-6 GHz(0-6GHz)
Working voltage: 170(170) volts RMS at sea level
Dielectric withstanding voltage:
750(500) volts RMS at sea level
Contact resistance: Center -5(5) milliohms maximum
Outer -1(2.5) milliohms maximum
Insulation resistance: 10000(1000) megohms minimum

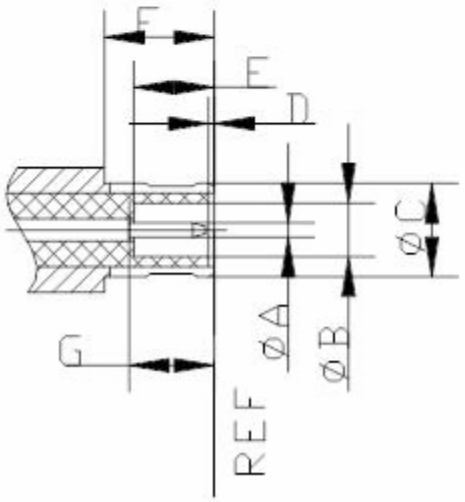
Environmental Characteristics
Recommended temperature range:
-55□ to +155□(-65□ to +165□)

Mechanical Characteristics
Durability: 500 cycles

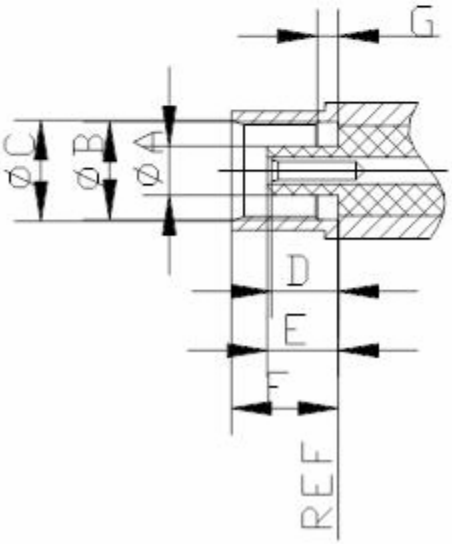
Materials
Body: brass
Contact: Beryllium copper and brass
Crimp Sleeve: Brass
Insulator: Teflon
Hardware: Brass
Plating: Body -Gold
Crimp sleeve -Gold
Hardware -Gold
Contact - Gold

These values are typical and may not apply to all connectors

PLUG



JACK



MCX Connector

	PLUG		JACK	
	Min	Max	Min	Max
A	0.48	0.53	1.80	1.97
B	2.00	2.07	3.43	3.48
C	3.66	3.76	3.61	3.75
D	0.00	0.30	2.31	2.79
E	2.81	3.20	2.61	2.79
F	4.16	-	4.00	4.12
G	2.81	3.20	0.75	0.85

Product listing:

Straight Crimp Type Plug

Straight Crimp Type Jack

Right Angle Crimp Type Plug

Right Angle Crimp Type Jack

Right Angle PCB Jack

Straight Jack

MMCX Connector

Tomorrow's base stations and wireless architectures require the highest level of RF performance. MMCX connector series is rated at 6 GHz and is about 50 percent of the size of the MCX and SMB series. The MMCX connector is designed with a 50 ohm impedance and a reliable snap-on coupling method producing low "RF leakage". It is designed for use in applications where space requirements are small and weight limitations are demanded.

Specifications

Electrical Characteristics
Impedance: 50 Ohm nominal(except where noted)
Frequency range: 0-6 GHz
Working voltage: 165 volts RMS at sea level
Dielectric withstanding voltage: 500 volts RMS at sea level
Contact resistance: Center -5 milliohms maximum
Outer -1 milliohms maximum
Insulation resistance: 1000 megohms minimum

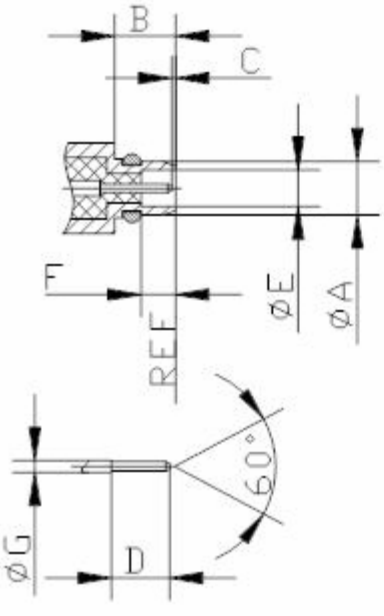
Environmental Characteristics
Recommended temperature range: -55□ to +155□

Mechanical Characteristics
Durability: 500 cycles

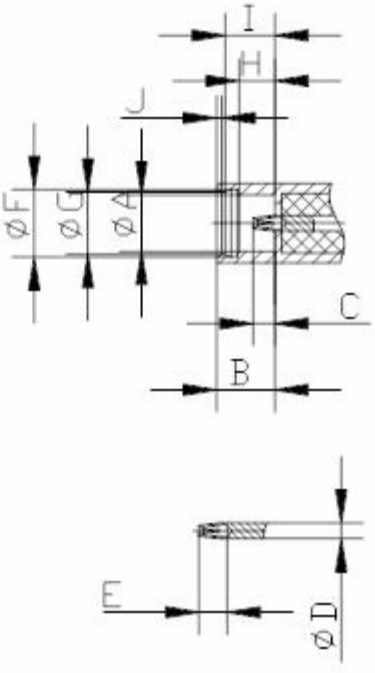
Materials
Body: brass
Contact: Beryllium copper and brass
Crimp Sleeve: Brass
Insulator: Teflon
Hardware: Brass
Plating: Body -Gold
Crimp sleeve -Gold
Hardware -Gold
Contact - Gold

These values are typical and may not apply to all connectors

PLUG



JACK



MMCX Connector

	PLUG		JACK	
	Min	Max	Min	Max
ØA	-	2.40	2.41	-
ØB	2.70	-	2.60	-
ØC	0.00	0.25	0.90	1.20
ØD	-	3.15	0.68	0.72
ØE	1.58	1.62	1.40	-
ØF	1.45	-	3.00	3.04
G	0.38	0.42	2.87	2.90
H	-	0.20	1.57	1.63
I			2.30	2.34
K			-	0.23

Product listing:

Straight Crimp Type Plug

Right Angle Crimp Type Plug

Straight Crimp Type Jack

Right Angle Crimp Type Jack

1.0/2.3 Connector

The 1.0/2.3 connectors are offered in both 50 and 75 ohm series. These connectors are now widely used in telecommunication systems where, due to their smaller size, significant space saving can be achieved. The 1.0/2.3 inserts feature a slide-on coupling mechanism, which ensures a short connectdisconnect time. Ideally suited to RF and high speed digital equipment, the connectors are designed to meet the requirements of CECC 22230 and DIN 41626/2.

Specifications

Electrical Characteristics
Impedance: 50 Ohm nominal(except where noted)
Frequency range: 0-4GHz
Working voltage: 250 volts RMS at sea level
Dielectric withstanding voltage: 750 volts RMS at sea level
Contact resistance: Center -10 milliohms maximum
Outer -3 milliohms maximum
Insulation resistance: 200 megohms minimum

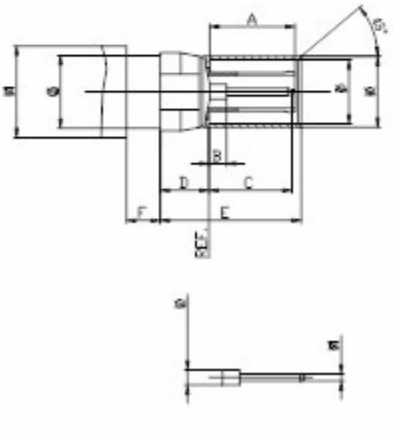
Environmental Characteristics
Recommended temperature range: -55□ to +125□

Mechanical Characteristics
Durability: 500 cycles

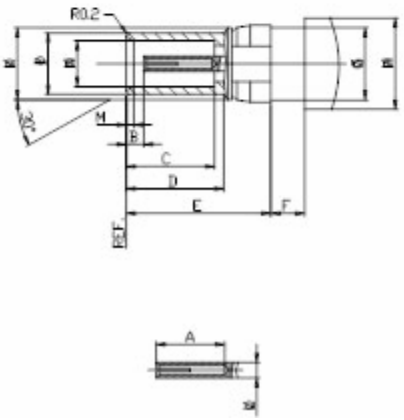
Materials
Body: brass
Contact: Beryllium copper and brass
Crimp Sleeve: Brass
Insulator: Teflon
Hardware: Brass
Plating: Body -Nickel
Crimp sleeve -Nickel
Hardware -Gold
Contact - Gold

These values are typical and may not apply to all connectors

PLUG



JACK



1.0/2.3 Connector

	PLUG		JACK	
	Min	Max	Min	Max
A	5.40	5.70	4.50	-
B	-	1.15	1.15	1.45
C	5.20	5.50	5.80	5.90
D	3.05	3.20	6.40	6.50
E	9.25	9.35	9.50	9.60
F	2.22	2.40	2.22	2.40
G	4.76	4.79	4.76	4.79
H	-	6.00	-	6.00
I	4.20	4.28	4.03	4.15
K	4.66	4.78	4.72	4.75
L	1.00	1.00	1.00	1.00
M	0.48	0.52	0.50	0.60
N	-	-	3.00	3.06

Product listing:

Straight Crimp Type Plug

Straight Crimp Type Plug

1.6/5.6 Connector

The range of 1.6/5.6 connectors is suitable for use in 75 ohm communication systems. These connectors have become the recognized standard in telecommunication systems in many parts of the world. They are designed to meet the requirements of DIN 47295, CECC 22240 and IEC 169-13.

Specifications

Electrical Characteristics
Impedance: 75 Ohm nominal(except where noted)
Frequency range: 0-8GHz
Working voltage: 330 volts RMS at sea level
Dielectric withstanding voltage: 1000 volts RMS at sea level
Contact resistance: Center -4 milliohms maximum
Outer -2 milliohms maximum
Insulation resistance: 10000 megohms minimum

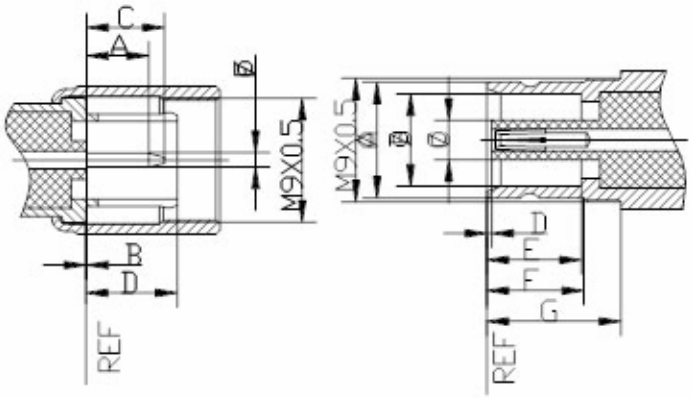
Environmental Characteristics
Recommended temperature range: -55□ to +125□

Mechanical Characteristics
Durability: 500 cycles

Materials
Body : brass
Contact: Beryllium copper and brass
Crimp Sleeve: Brass
Insulator: Teflon
Hardware: Brass
Plating: Body -Nickel and Gold
Crimp sleeve -Nickel
Hardware -Nickel
Contact - Gold

These values are typical and may not apply to all connectors

PLUG JACK



1.6/5.6 Connector

	PLUG		JACK	
	Min	Max	Min	Max
A	3.90	3.90	8.01	8.25
B	-	0.15	6.60	6.69
C	-	5.50	-	2.80
D	-	6.60	0.25	-
E	1.00	1.06	6.70	-
F			7.00	7.50
G			9.70	-

Product listing:

Straight Clamp Type Jack

Straight Clamp Type Plug

7/16 Connector

7/16 rugged coaxial connectors with screw lock have been designed for low intermodulation and VSWR applications in medium to high power transmission systems. For the purposes low intermodulation product and waterproof types are also available. Therefore they are suitable for outdoor and tower mounted applications. This connector range is suitable for the standard ranges of flexible and semi-rigid cables and is also available in panel mount versions. The characteristic impedance of the 7/16 coaxial connectors is 50 ohm. 7/16 connectors meet the specification of IEC 169-4.

Specifications

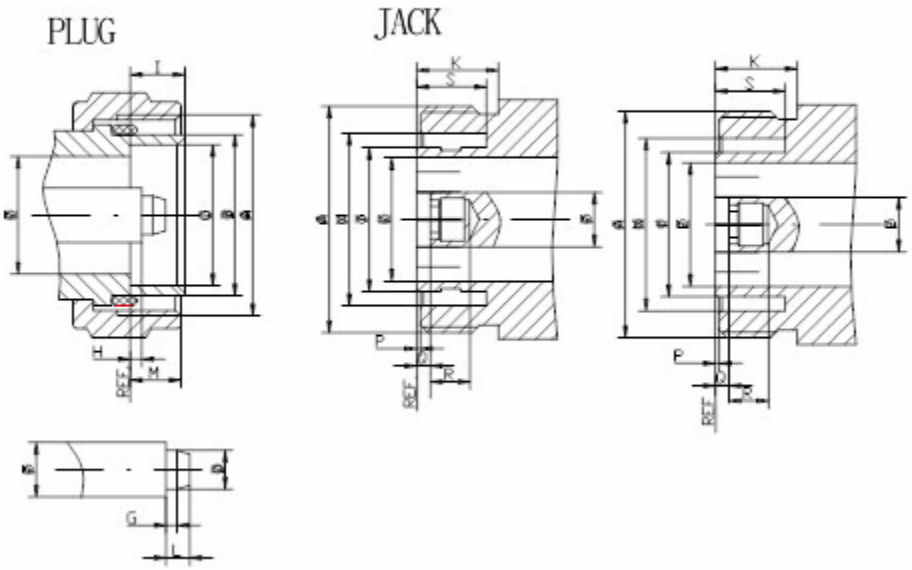
Electrical Characteristics
Impedance: 50 nominal(except where noted)
Frequency range: 0-4 GHz(0-1GHz)
Working voltage: 500 volts RMS at sea level
Dielectric withstanding voltage: 1500 volts RMS at sea level
Contact resistance: Outer-0.4 milliohms maximum
Center-1.5 milliohms maximum
Insulation resistance: 5000 megohms minimum

Environmental Characteristics
Recommended temperature range: -55°C to +85°C

Mechanical Characteristics
Durability: 500 cycles

Materials
Body and coupling nut: Zinc or brass
Contact: Beryllium copper, phosphor bronze or brass
Crimp Sleeve: Brass
Insulator: Teflon
Hardware: Brass
Plating: Body- White Bronze
Crimp sleeve - Nickel
Hardware - nickel
Contact - Gold

These values are typical and may not apply to all connectors



7/16 Connector

	PLUG		JACK	
	Min	Max	Min	Max
A	M29*1.5		M29*1.5	
B	20.60	21.40	-	-
C	18.03	18.21	-	-
D	4.96	5.04	-	-
E	15.85	16.25	15.85	16.25
F	7.00	7.00	7.00	7.00
G	1.40	1.60	-	-
H	1.47	1.77	-	-
I	7.00	8.00	-	-
K	-	-	10.00	-
L	-	4.50	-	-
M	7.00	9.00	-	-
N	-	-	22.10	22.90
P	-	-	0.50	0.70
Q	-	-	1.77	2.07
R	-	-	5.00	-
S	-	-	8.10	-
U	-	-	-	18.5
	-	-	-	18.00

7/16 Connector

Product listing:

PCB Straight Jack

PCB Straight Plug

Straight Jack

Straight Jack

Straight Plug

Straight Plug

Right Angle Plug

Blank

N Connector

The N connector employs a large diameter threaded interface for excellent strength and reliability. This commercial quality connector handles high power applications such as antenna feeds for radios and cell sites. Termination options include crimp and clamp styles for rugged service.

Specifications

Electrical Characteristics Impedance: 50 Ohm(75 Ohm) nominal (except where noted)
Frequency range: 0-11 GHz(1.5GHz)
Working voltage: 1000 volts RMS at sea level
Dielectric withstanding voltage: 2500 volts RMS at sea level
Contact resistance: Outer-0.25 milliohms maximum
Center-1.0 milliohms maximum
Insulation resistance: 5000 megohms minimum

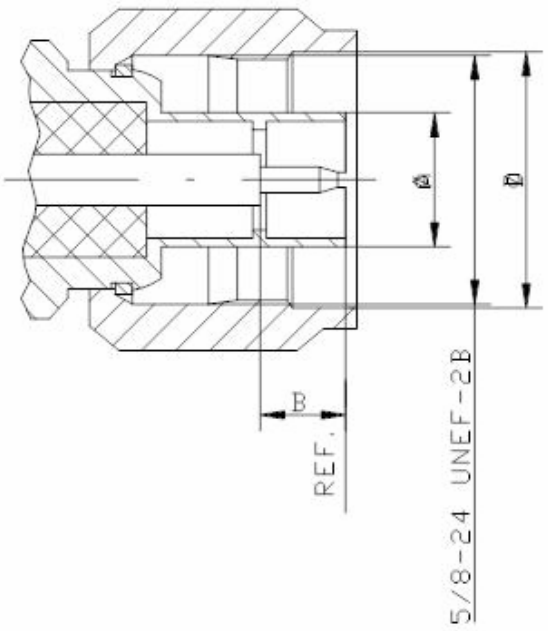
Environmental Characteristics
Recommended temperature range: -55□ to +85□

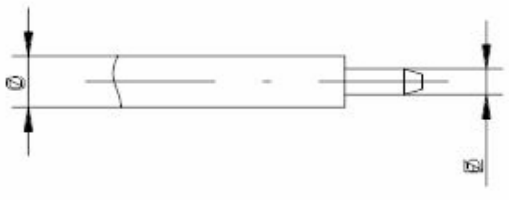
Mechanical Characteristics
Durability: 500 cycles

Materials
Body and coupling nut: Zinc or brass
Contact: Beryllium copper, phosphor bronze or brass
Crimp Sleeve: Brass
Insulator: Teflon
Hardware: Brass
Plating: Body – Nickel
Crimp sleeve – Nickel
Hardware – nickel
Contact – Gold

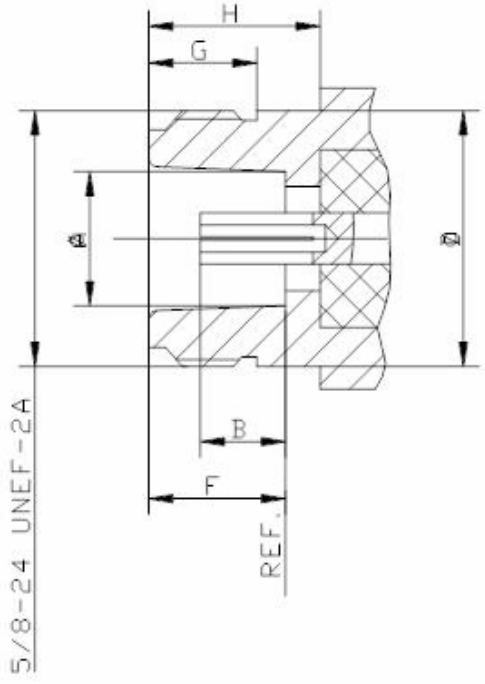
* These values are typical and may not apply to all connectors

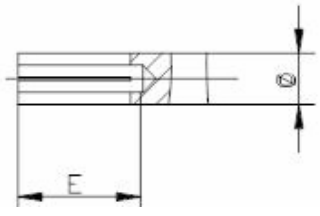
PLUG





JACK





N Connector

	PLUG		JACK	
	Min	Max	Min	Max
ØA	-	8.38	8.03	8.13
ØB	5.33	5.84	4.75	5.26
ØC	-	3.15	-	3.15
ØD	16.00	-	-	15.93
ØE	1.60	1.68	5.33	-
ØF	-	-	9.04	9.19
G	-	-	6.76	-
H	-	-	10.72	-

Product listing:

Straight Crimp Type Plug

Flange Mount Jack Receptacle

Flange Mount Jack Receptacle

Straight Crimp Type Jack

Jack To Jack Adapter

Plug To Plug Adapter

N Connector

Jack To Jack To Jack Adapter

Straight Clamp Plug

Straight Clamp Jack

Straight Clamp Jack

Straight Clamp Plug

Straight Clamp Jack

Straight Clamp Plug

Straight Clamp Jack

Straight Clamp Plug

Right Angle Clamp Plug

N Connector

Right Angle Plug

Flange Mount Jack Receptacle

Straight Jack

F Connector

The F series coaxial connectors designed for the OEM market for use in amplifier housings, broadband modems, headend equipment, and tuner modules. The line is available for mounting on PCB in various configurations such as right angle, edge mount, and bulkhead mount.

Specifications

Electrical Characteristics
Impedance: 75 Ohm nominal(except where noted)
Frequency range: 0-1GHz
Working voltage: 1500 volts RMS at sea level
Dielectric withstanding voltage: 1000 volts RMS at sea level
Contact resistance: Center -5 milliohms maximum
Outer -2.5 milliohms maximum
Insulation resistance: 10000 megohms minimum

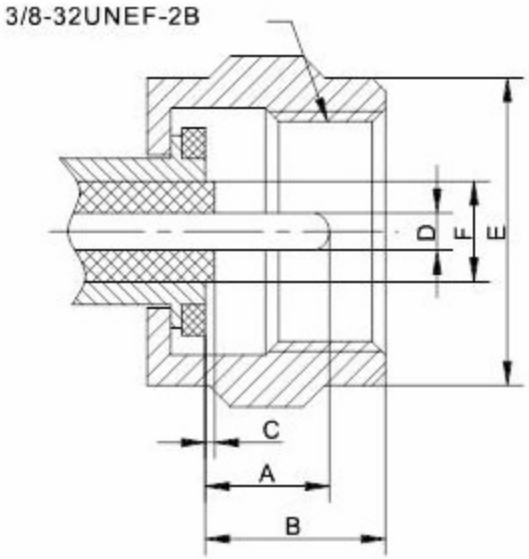
Environmental Characteristics
Recommended temperature range: -40□ to +60□

Mechanical Characteristics
Durability: 500 cycles

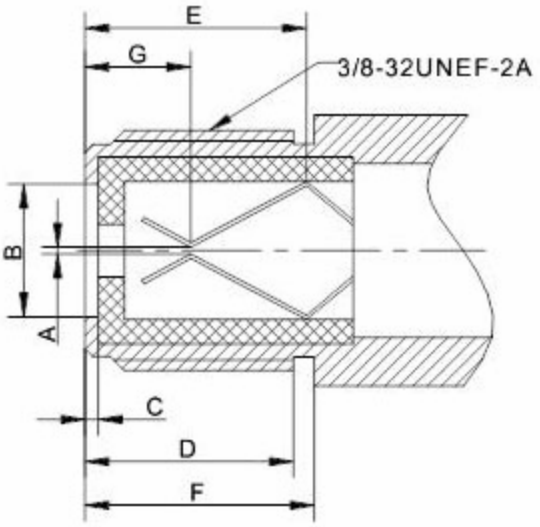
Materials
Body : brass
Contact: phosphor bronze and brass
Crimp Sleeve: Brass
Insulator: Teflon
Hardware: Brass
Plating: Body -Nickel and Gold
Crimp sleeve -Nickel
Hardware -Nickel
Contact - Gold and Silver

These values are typical and may not apply to all connectors

PLUG



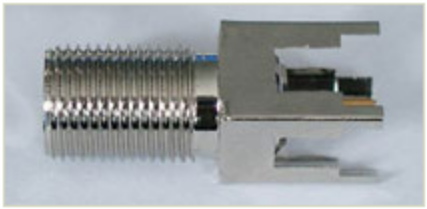
JACK



F Connector

	PLUG		JACK	
	Min	Max	Min	Max
A	4.95	6.86	0.51	1.63
B	-	7.29	3.86	-
C	-	0.25	0.30	-
D	0.51	1.63	5.56	-
E	-	12.95	7.00	-
F		3.80	7.59	-
G		3.58	-	4.70

Product listing:



Straight Jack

Plug To Jack Adapter

Jack To Jack Adapter

Straight Plug

Mini UHF Connector

Mini UHF connectors clench the teeth after adopting the end tooth, the whorl is joined, It suitable radio communication, cellular telephone and office land network make electric signal transmit and join radio frequency cable spend among a small circle. It is reliable that its characteristic is stabilized, joins by performance, can exchange and use with the similar products in many countries.

Specifications

Electrical Characteristics
Impedance: 50 Ohm nominal(except where noted)
Frequency range: 0-2.5GHz
Working voltage: 335 volts RMS at sea level
Dielectric withstanding voltage: 1000 volts RMS at sea level
Contact resistance: Center -5 milliohms maximum
Outer -2.5 milliohms maximum
Insulation resistance: 5000 megohms minimum

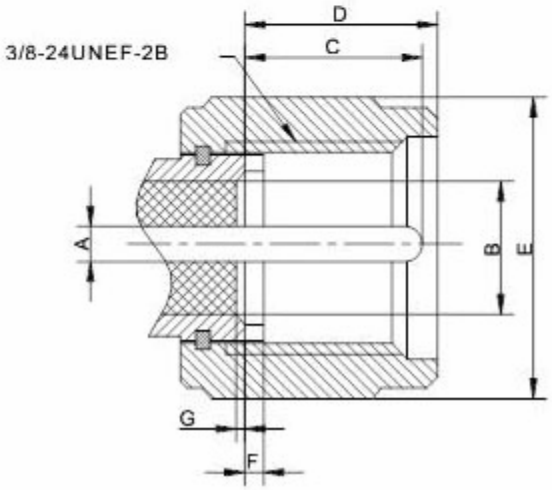
Environmental Characteristics
Recommended temperature range: -40□ to +85□

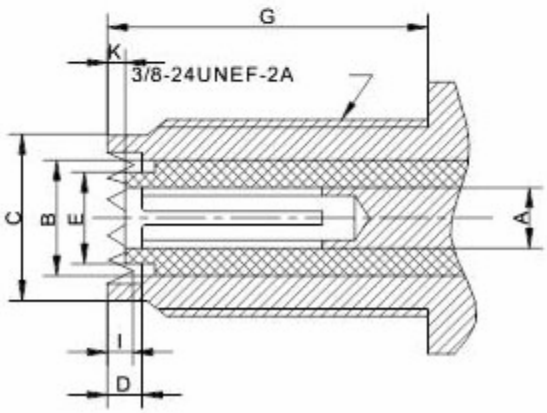
Mechanical Characteristics
Durability: 500 cycles

Materials
Body : brass
Contact: Beryllium copper and brass
Crimp Sleeve: Brass
Insulator: Teflon
Hardware: Brass
Plating: Body -Nickel and Silver
Crimp sleeve -Nickel
Hardware -Nickel
Contact - Gold

These values are typical and may not apply to all connectors

PLUG JACK





Mini UHF Connector

	PLUG		JACK	
	Min	Max	Min	Max
A	1.50	1.65	2.20	2.20
B	5.50	5.50	7.00	7.00
C	6.00	1.27	7.90	8.10
D	6.50	8.00	0.80	2.00
E	-	12.00	4.70	4.70
F	0.63	0.77		
G	-	0.70	6.50	-
I			6.30	0.77
K			-	0.50

Product listing:

Plug To Jack Adapter

Volex Group Markets & Industry Segments

Telecom

- Wireline networks
- Wireless networks
- Enterprise systems
- Microwave systems

Consumer

- Computers
- Imaging/Printing
- Audio/Visual equipment
- Handheld devices
- Domestic appliances
- Garden & DIY tools

Datacom

- Servers
- Storage
- Networking products
- Peripherals

Industrial

- Air Conditioning
- Refrigeration
- Automation
- Control systems
- Test & Measurement
- Vending machines

Medical

- Patient monitoring
- Cardiac resuscitation
- Diagnostic equipment
- Imaging systems

Transportation

- Performance vehicles
- Commercial vehicles
- Agricultural equipment
- Construction equipment
- Aerospace
- Defense

Volex RF Connector Catalog

About the Volex Group:

The Volex Group plc (LSE: VLX) is one of the world's leading producers of electronic and fiber optic cable assemblies and connectors for the aerospace, industrial, consumer, wireless infrastructure and data communications markets. Volex products are engineered and manufactured in the Americas, Europe and Asia and sold by a worldwide sales and marketing organization. With over 100 years of experience in the electronics industry and over $450 million in annual revenue, Volex offers customers a complete solution for their interconnect needs. More information on Volex can be found at www.volex.com.

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