FEDERAL CUSTOM CABLE

SMA CONNECTOR SPECIFICATIONS

FEATURES :

- Broadband performance DC to 18GHz
- High mechanical strength, high durability with low VSWR
- Threaded coupling ensures stability in vibration intensive applications

APPLICATIONS :

- Base Stations
- PC/LAN
- Instrumentation
- Telecom
- Wireless Network Antennas

ELECTRICAL SPECIFICATIONS

Impedance	50 Ω
Frequency Range	0 – 12.4 GHz (flexible cable)
	0 – 18 GHz (semi-rigid cable)
Working Voltage	≤ 335 VRMS (flexible cable)
	≤ 500 VRMS (semi-rigid cable)
Dielectric Withstanding Voltage	1000 VRMS (flexible cable)
	1500 VRMS (semi-rigid cable)
VSWR	Straight : 1.15 max
	Right Angle : 1.2 max
Contact Resistance	Center Contact : ≤ 2 mΩ
	Outer Contact : ≤ 2 mΩ
Insulator Resistance	5000 MΩ min.

MATERIAL SPECIFICATIONS

Body and outer contacts	Brass, nickel or gold plated
Male contact	Brass, gold plated
Female contact	Beryllium Copper, gold plated
Insulator	PTFE
Crimp ferrule	Copper or brass, nickel or gold plated

MECHANICAL SPECIFICATIONS

Coupling mating torque	7 – 15 in-lbs (80 – 170 N-cm)
Cable Retention	60 lbs min. (flexible cable)
	80 lbs min. (semi-rigid cable)
Durability (matings)	500 cycles min.

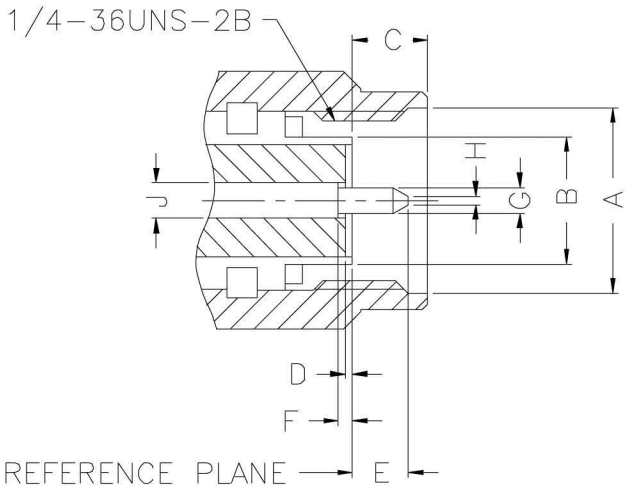
ENVIRONMENTAL

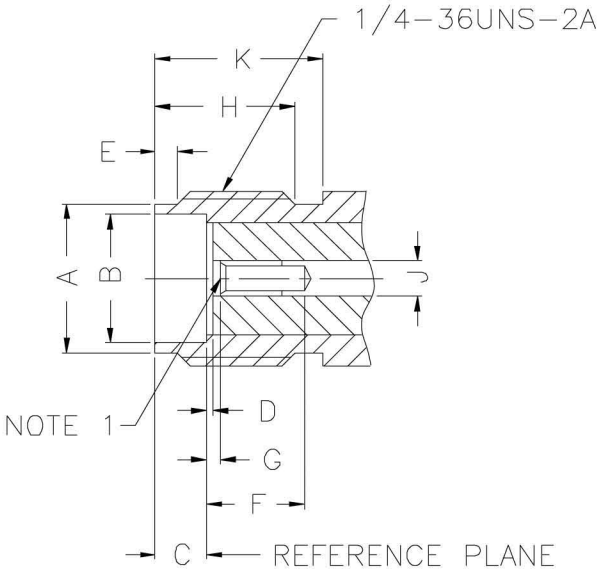
Compliant with the requirements for RoHS Directive 2001/65/eu issued June 8, 2011	
Temperature Range	-65°C to +165°C

1891 Alton Prkwy | Irvine, California 92606
Local Call: (949) 851-3114 | Toll Free: (888) 440-8688 | Local Fax: (949) 852-8136 | Toll Free Fax: (800)874-2444

SMA MATING DIMENSIONS

INTERFACE MATING DIMENSIONS





PLUG		
Letter	Millimeters	
	Minimum	Maximum
A	6.35	6.73
B	4.53	4.59
C	2.54	3.43
D	0.00	0.25
E	1.91	2.54
F	0.00	0.25
G	0.90	0.94
H	0.00	0.38
J	1.24	1.30

JACK		
Letter	Millimeters	
	Minimum	Maximum
A	5.28	5.49
B	4.60	4.67
C	1.88	1.98
D	0.00	0.25
E	0.38	1.14
F	2.92	-
G	0.00	0.25
H	4.32	-
J	1.24	1.30
K	5.54	-

Note 1 : I.D. to meet VSWR and contact resistance when mated with 0.9/0.94 mm dia. pin.

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