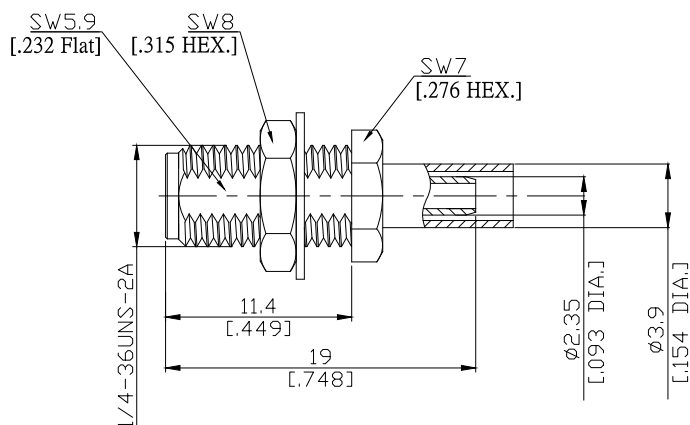
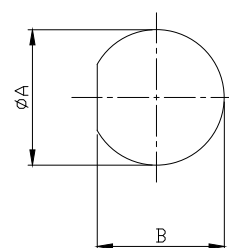


SMA (Female) Straight Bulkhead Cable Crimp Jack
DC-6 GHz VSWR 1.25

SMA2CA50-G316F/91



Mounting Dimensions



	mm		inch	
	Max.	Min.	Max.	Min.
A	6.45	6.4	.254	.252
B	6	5.95	.236	.234

All dimensions are in mm [inch]

Tolerances according to DIN ISO 2768-mH

Interface

According to

IEC 60169-15; MIL-STD-348B/310

Electrical Data

Impedance	50 Ω
Frequency	DC to 6 GHz
VSWR (Return Loss)	≤ 1.25 (≥ 20.83 dB)
Insertion Loss	≤ 0.05 × √F (GHz) dB
Insulation Resistance	≥ 5 GΩ
Center Contact Resistance	≤ 3 mΩ
Outer Contact Resistance	≤ 2 mΩ
Test Voltage (at sea level)	1000 V rms
Working Voltage (at sea level)	480 V rms

- Limitations are possible due to the used cable type and manufacturing method -

Material And Plating

Piece Parts	Material	Plating
Centre contact	Beryllium Copper	Gold plating, 3 μinch (Non-magnetic nickel-phosphorus underplating, 80 μinch)
Body	Brass	Gold plating, 3 μinch (Non-magnetic nickel-phosphorus underplating, 80 μinch)
Insulator	PTFE	
Gasket	Silicone rubber	
Crimp ferrules	Brass	Gold plating, 3 μinch (Non-magnetic nickel-phosphorus underplating, 80 μinch)
Fastening nut	Brass	Gold plating, 3 μinch (Non-magnetic nickel-phosphorus underplating, 80 μinch)
Washer	Brass	Gold plating, 3 μinch (Non-magnetic nickel-phosphorus underplating, 80 μinch)

SMA (Female) Straight Bulkhead Cable Crimp Jack
DC-6 GHz VSWR 1.25

SMA2CA50-G316E/91

Mechanical Data

Coupling mechanisms	Screw-lock
Mating Cycles	≥ 500
Centre contact	Soldered
Cable entry	Crimped
Center Contact Captivation: axial	≥ 27 N
Weight	N/A
Coupling Test Torque	1.7 Nm max.
Recommended Torque	0.56 Nm

Environmental Data

Temperature Range	-65°C to +165°C
Thermal shock	MIL-STD-202, Meth. 107, Cond. B
Corrosion	MIL-STD-202, Meth. 101, Cond. B
Vibration	MIL-STD-202, Meth. 204, Cond. D
Shock	MIL-STD-202, Meth. 213, Cond. I
Moisture Resistance	MIL-STD-202, Meth. 106
IP Rating	IP67
RoHS	compliant

Suitable Cables

RG 316/U, RG 174 A/U, RG 188, G 02232, BELDEN 7805

Related Documents

MD19

Packing

Single or 100