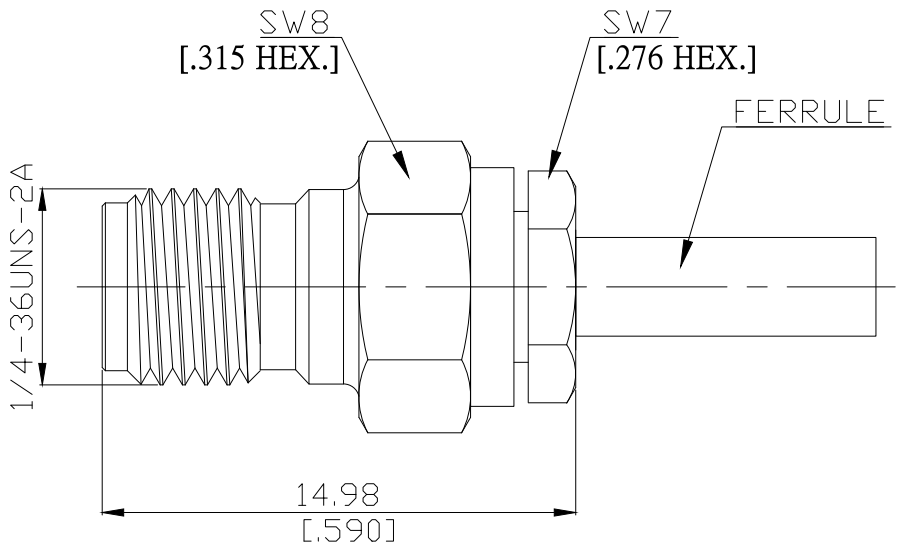
ROSNOL
RF/Microwave Interconnect

Technical Data Sheet

SMA (Female) Straight Cable Crimp Jack For RG178 DC-6 GHz VSWR 1.25

SMA2C50-G178B / 9X



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 x √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

Material And Plating

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

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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 178, RG 196

Packing

Single or 100

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