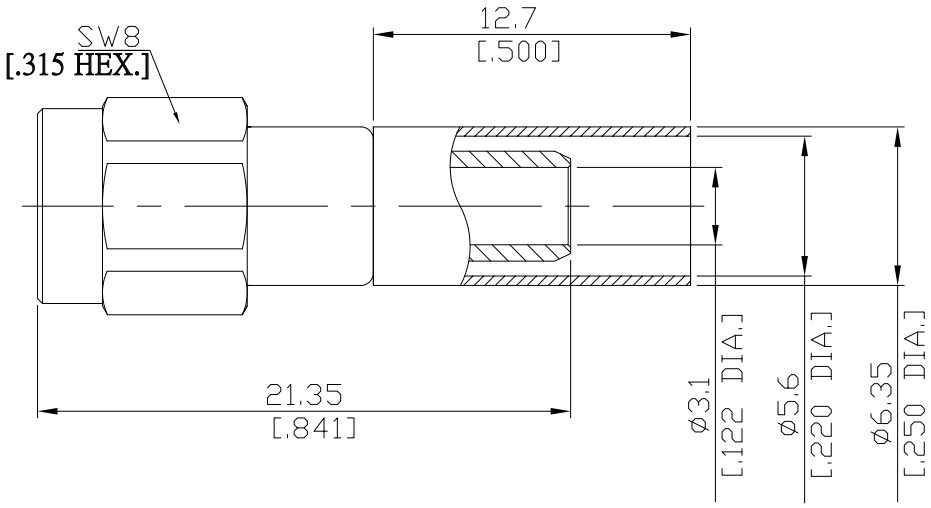
ROSNOL
RF/Microwave Interconnect

Technical Data Sheet

SMA Straight Cable Plug

SMA1C50-G142C/144



All dimensions are in mm [inch]
Tolerances according to DIN ISO 2768-mH

Interface

According to	IEC 60169-15; MIL-STD-348A/310

Electrical Data

Impedance	50 Ω
Frequency	DC to 6 GHz
VSWR (Return Loss)	≤ 1.20 (≥ 20.83 dB), DC to 5 GHz
Insertion Loss	≤ 0.04 x $\sqrt{F\ (GHz)}$ dB, DC to 5 GHz

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

Mechanical Data

Coupling mechanisms	Screw-lock
Centre contact	Soldered or Crimped
Cable entry	Crimped

Environmental Data

Temperature range	-65°C to +165°C
RoHS	compliant

Material And Plating

Connector parts	Material	Plating
Centre contact	Brass	Gold plating(Nickel underplated)
Body	Brass	Copper-Tin-Zinc Alloy
Insulator	PTFE	
Gasket	Silicone Rubber	
Coupling nut	Brass	Copper-Tin-Zinc Alloy
Crimp ferrules	Brass	Copper-Tin-Zinc Alloy

Suitable Cables

RG-55, RG-142, RG-223, RG-400

Packing

Single, 5-pack, or 100

The facts and figures herein are carefully compiled to the best of our knowledge, but they are intended for general informational purposes only. In the effort to improve our products, we reserve the right to make changes judged to be necessary.

Rosnol RF/Microwave Technology
www.rosnol.com; info@rosnol.com
Phone: +886-3-463-5095 / Fax:+886-3-463-5952
N-CAGE Code: SFKK0

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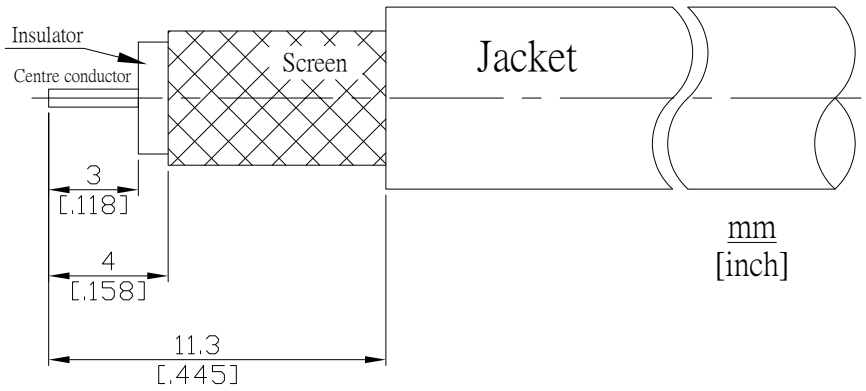
Recommended Cable Stripping Dimensions



Crimp Dimensions [HEX]

Crimp ferrule	5.41mm [.213 inch]
Centre contact	1.73mm [.068 inch]

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