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SMA Male Connector for L-240 Coaxial Cable

SKU
ACC-PT-00187
MPN
SA1-C-L24
Barcode
9337692000942

Description

This standard straight-bodied SMA Male connector is designed for an ordinary crimp and solder attachment to LMR-240 and equivalent series braided coaxial cables.

- Supports frequencies up to 6 GHz
- Suits all L-240 series coaxial cables
- 6.5 mm (.255″) hex die crimp attachment
- Interface compliant to IEC 61169-15

SMA connectors have become the mainstay of wireless technologies thanks to their modest durability and very compact size. The SMA Male (also referred to as an SMA Plug) connector can be identified by its hex-shaped outer body which rotates to interface by its inner thread.

A gold pin protrudes from the centre of the connector which upon threading together couples with the receptacle on the female connector.

Installation is a simple process. After preparing the cable, the pin is soldered onto the centre conductor and outer body pushed over the top until the pin sits flush. A standard 6.5 mm (0.255″) hex die is used to crimp the ferrule.

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The SMA Male Connector for L-240 Coaxial Cable, developed by Powertec, is a vital component in RF connectivity solutions. Designed for reliable performance, this connector supports frequencies up to 6 GHz, making it ideal for a variety of wireless applications. Commonly used in telecommunications, it facilitates secure connections in RF circuits, enabling efficient signal transmission in cellular network enhancements and wireless systems.

The connector features a straight-bodied design with a crimp and solder attachment suitable for LMR-240 cables. Its hex-shaped outer body allows for easy installation and secure mating with corresponding female connectors. The gold-plated brass construction ensures excellent conductivity and durability, while the PTFE insulator enhances signal integrity by maintaining electrical isolation.

Capable of withstanding over 500 mating cycles, this connector is designed for long-term use in demanding...

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Powertec is a wireless technology manufacturer and systems integrator based in Australia. Operating since 1995, Powertec has grown to become the leading wireless technology distributor in its region, and a leading Infratech systems developer. Supporting over 1500 partners the company provides procurement, design, project management, and support services across Australia, New Zealand, Pacific ...

RF Connector Interface

RF Interface	Body Shape	Mounting

SMA Male Straight Free Hanging

RF Specification

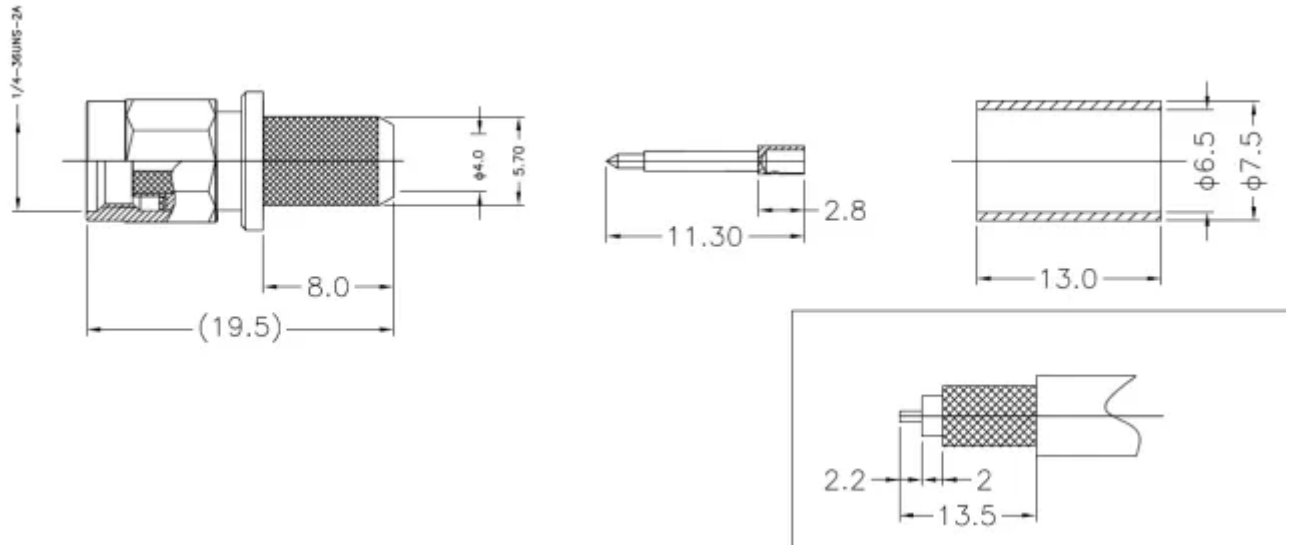
Start Frequency
0 GHz
Stop Frequency
6 GHz
Peak Power
5 kW
Input Impedance
50 Ω
Inner Contact Resistance
≤ 1 mΩ
Insulation Resistance
≥ 5000 mΩ
Outer Contact Resistance
≤ 1 mΩ
RF Operating Voltage
≤ 500 Vrms
VSWR Measurement

Frequency	VSWR	Return Loss
6000 MHz	≤ 1.25:1	≤ 19 dB

Physical Specification

Cable Group
L-240
Body Material
Brass
Body Plating
Gold
Insulator Material
PTFE / Teflon
Dimensions
19.5 × 8 × 8
Weight
6 g
Compliance/Certifications
ISO 9001 Quality Management

,
RoHS
Conductor Attachment
Cable, Crimp
Contact Material
Brass
Contact Plating
Gold
Min. Operating Temperature
-65 °C
Max. Operating Temperature
165 °C
Mating Cycles
> 500
Drawing



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