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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

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

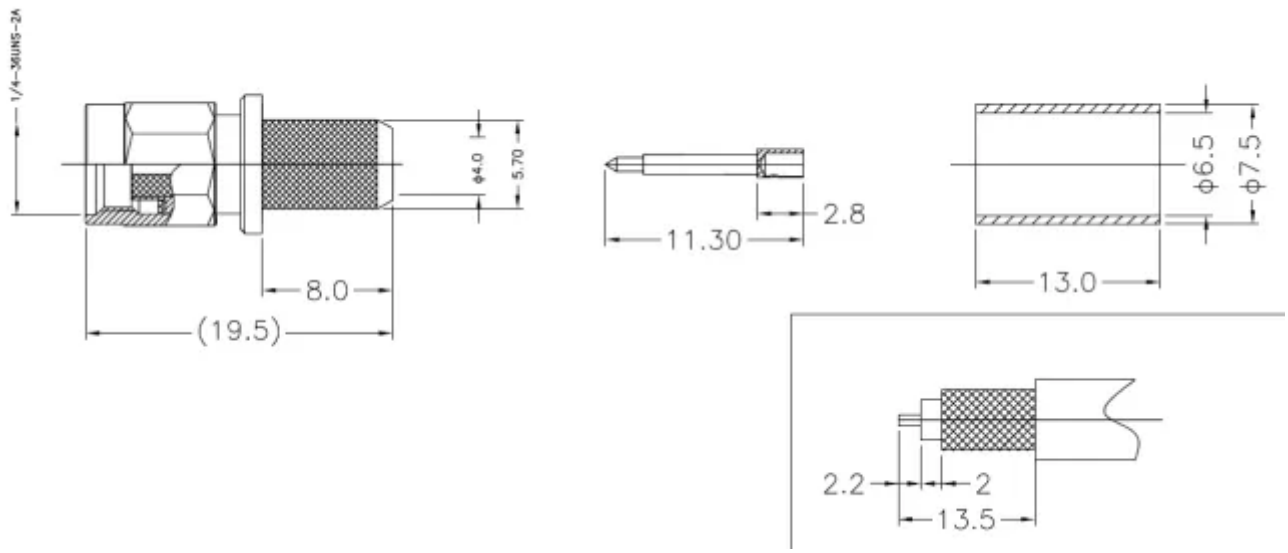
VSWR Measurement

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

Physical Specification

Cable Group:	L-240	Conductor Attachment:	Cable, Crimp
Body Material:	Brass	Contact Material:	Brass
Body Plating:	Gold	Contact Plating:	Gold
Insulator Material:	PTFE / Teflon	Min. Operating Temperature:	-65 °C
Dimensions:	19.5 × 8 × 8	Max. Operating Temperature:	165 °C
Weight:	6 g	Mating Cycles:	> 500
Compliance/Certifications:	ISO 9001 Quality Management , RoHS		

Drawing



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