

# L-100 Patch Cable, SMA Male to N Female Bulkhead, 15cm

SKU: ACC-PT-00201

MPN: CA-L10-SA1N2-BRM.015

Barcode: 9337692003547

## Description

The L-100 Patch Cable, SMA Male to N Female Bulkhead, 15cm (SKU: ACC-PT-00201), is a premium RF coaxial cable developed by Powertec. This L-100 series cable serves as an advanced replacement for RG-174 and RG-316, offering superior performance with its double-shielded outer conductor that delivers over 90 dB of RF shielding. With a diameter of 2.79 mm, it is ideal for high-frequency applications up to 63 GHz, although typically used up to 6 GHz.

This 15 cm cable is lightweight at 53 grams and is engineered to endure over 500 mating cycles. It operates within a frequency range of 0 to 6 GHz and is compliant with ISO 9001 Quality Management and RoHS certifications. The cable features an SMA Male connector with a straight body and free-hanging mount on one end, and an N Female connector with a straight body and bulkhead mount on the other. At 3000 MHz, it exhibits a VSWR of  $\leq 1.4:1$  and an insertion loss of 0.2 dB.

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## Powertec

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 Specification

Start Frequency:	0 GHz	Stop Frequency:	6 GHz
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VSWR Measurement			
Frequency	VSWR	Insertion Loss	
3000 MHz	≤ 1.4:1	0.2 dB	

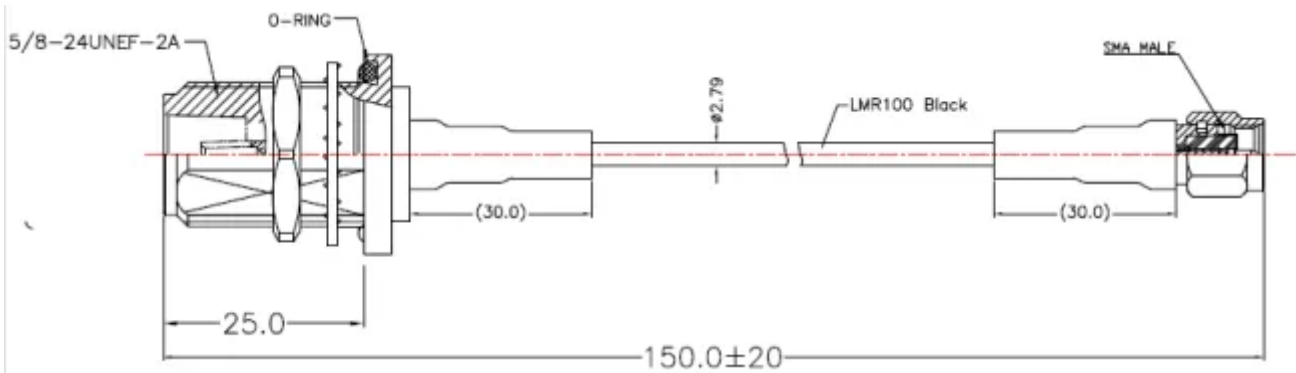
# Physical Specification

Subtype:	Patch Cable	Length:	0.15 m
Mating Cycles:	> 500	Weight:	53 g
Compliance/Certifications:	ISO 9001 Quality Management		
RoHS			

# RF Connectors

RF Interface	Body Shape	Mounting
SMA Male	Straight	Free Hanging
N Female	Straight	Bulkhead

# Drawing



## L-100

Min. Frequency:	0 GHz	Max. Frequency:	63 GHz
Impedance:	50	Shielding Effectiveness:	> 90 dB
Min. Bend Radius Static:	6.4 mm	Colour:	Black
Min. Bend Radius Dynamic:	25.4 mm		
Attenuation @ 1 GHz:	0.78 dB/m		

## Cable Layers

Layer	Diameter	Materials
Inner Conductor	0.46 mm	Solid Copper
Dielectric	1.52 mm	Polyethylene (PE)
Outer Conductor	1.65 mm	Aluminium Foil
Outer Conductor	2.11 mm	Tinned Copper Braid (TC)
Outer Jacket	2.79 mm	Polyethylene (PE)

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