

Bulkhead SMA-F to IPEX Cable



Overview

The Bulkhead SMA to IPEX cable is a 150 mm RF coaxial cable assembly designed for reliable high-frequency connections between RF equipment, antennas, and other wireless components. It features an I-PEX 1.13 cable with a waterproof SMA connector, providing a compact solution for connecting antennas to transmitters, receivers, computers, radio equipment, and other RF devices.

Supporting frequencies up to 6 GHz with a $50\ \Omega$ impedance, the cable is designed for high-frequency signal transmission. Its flexible construction, PTFE insulation, and wide operating temperature range make it suitable for a variety of wireless and RF applications.

Key Features



50 Ω Impedance Match

Consistent 50 Ω impedance across cable and connector for reliable RF performance.



Low Insertion Loss

Typical insertion loss of 0.6dB with VSWR $\leq 1.50 + 0.02f$ up to 6GHz.



Gold-Plated Contacts

SMA connector contacts are gold plated for durable, low-resistance connections.



Waterproof SMA Connector

Waterproof SMA female bulkhead connector, ideal for outdoor and panel-mount applications.



Wide Temperature Range

Rated for continuous operation from -55°C to +150°C.



RoHS Compliant

Manufactured to meet RoHS environmental compliance standards.

Connector

Frequency Range	0 – 6GHz
V.S.W.R	≤1.50+0.02f
Impedance	50Ω
Insertion Loss	0.6dB
Plating	Gold plated
Dielectric Withstand Voltage	50V ±2 KV
Insulator	PTFE

Cable

Cable Type	UL-1.13
Center Conductor	0.1mm, silver-plated copper
Insulation Dimensions	Ø 0.5±0.1mm (PTFE)
Screen Dimensions	Ø1.13mm, tin/silver-plated braid
Jacket Dimensions	Ø1.13mm
Nominal Impedance	50Ω

Environment

Operating Temperature	-55°C to +150°C
Operating Relative Humidity	55% ~ 75%

Testing

Testing Voltage of Spark	2000V
Testing Voltage	2000V

Certification

RoHS Compliant

Mechanical

Connector A	SMA Female, waterproof, bulkhead mount
Connector B	I-PEX (U.FL-compatible)
Cable Length	150.0 ± 2mm
Overall Length	165.0 ± 2mm
Mounting Thread	1/4-36 UNEF
Panel Hex Size	8.0mm

Attenuation (Typical, dB/m)

2500MHz	0.31dB/m
2400MHz	0.52dB/m
1000MHz	0.59dB/m
800MHz	0.61dB/m
500MHz	0.65dB/m

Ordering Information

Part Number	HTL-NET-NAC-IPSMA_01
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Unit Structure

