



IPEX to SMA Female Bulkhead

1.13mm Coax Cable

Model Number: IPEX to SMA Female Bulkhead

Product Features

SMA Female
uFL
1.13mm Coax
Right Angle
Bulkhead

Applications

Internal use
Internal antenna pigtailed
Internal to bulkhead connector cable

Product Description

The IPEX to SMA female bulkhead cable assembly is ideal for PCB to panel connection in a wide range of RF and wireless applications. The IPEX is a miniature male board connector, also physically intermateable with the U.FL type. This is connected to a bulkhead mount SMA female connector via 1.13mm RF cable. The SMA is probably the most widely used RF interface connector with secure screw mounting to the mating half counterpart. Providing a simple means of bringing board level signals to an external I/O port, this assembly is available in four convenient lengths from 100mm to 300mm. Suitable for a range of industrial and professional applications, the use of high quality components and termination ensure a reliable service for both prototyping and production requirements.

The 1.13mm cable is the most popular of the thinner RF cables. Widely used for PCB to subsystem or PCB to bulkhead connection, this miniature 50 ohm cable is highly flexible with a tight 4.5mm bend radius allowing convenient routing in confined spaces.

Please note: IPEX is completely compatible with the U.FL

Electrical Specification

Cable Specifications

Impedance: 50 ohm
Conductor Resistance: $545 \hat{I} / \text{km}$ 20°C max
Insulation resistance: $1000\text{M}\hat{I} / \text{km}$ min
Capacitance: $96 \pm 3 \text{ pF/m}$
Dielectric strength: AC 500 V/minute
Rating current: 1.5 Amp
Nom. vel. of prop. 69%
VSWR (0~6GHz) 1.3 max
Attenuation: Loss dB/M @ 2GHz: 2.80

Operating Frequencies

Up to 6GHz

Mechanical Specifications

Dimensions

Conductor: 0.22mm
Insulator: 0.70mm
Shield: 90% coverage

Jacket: 1.13mm

Materials

Insulator: FEP

Jacket: FEP

Conductor: Silver-Coated Copper

Shield: Tinned-Coated Copper

Mounting Specifications

Connector: uFL/IPEX to SMA Female Bulkhead

Cable: 1.13mm Coax