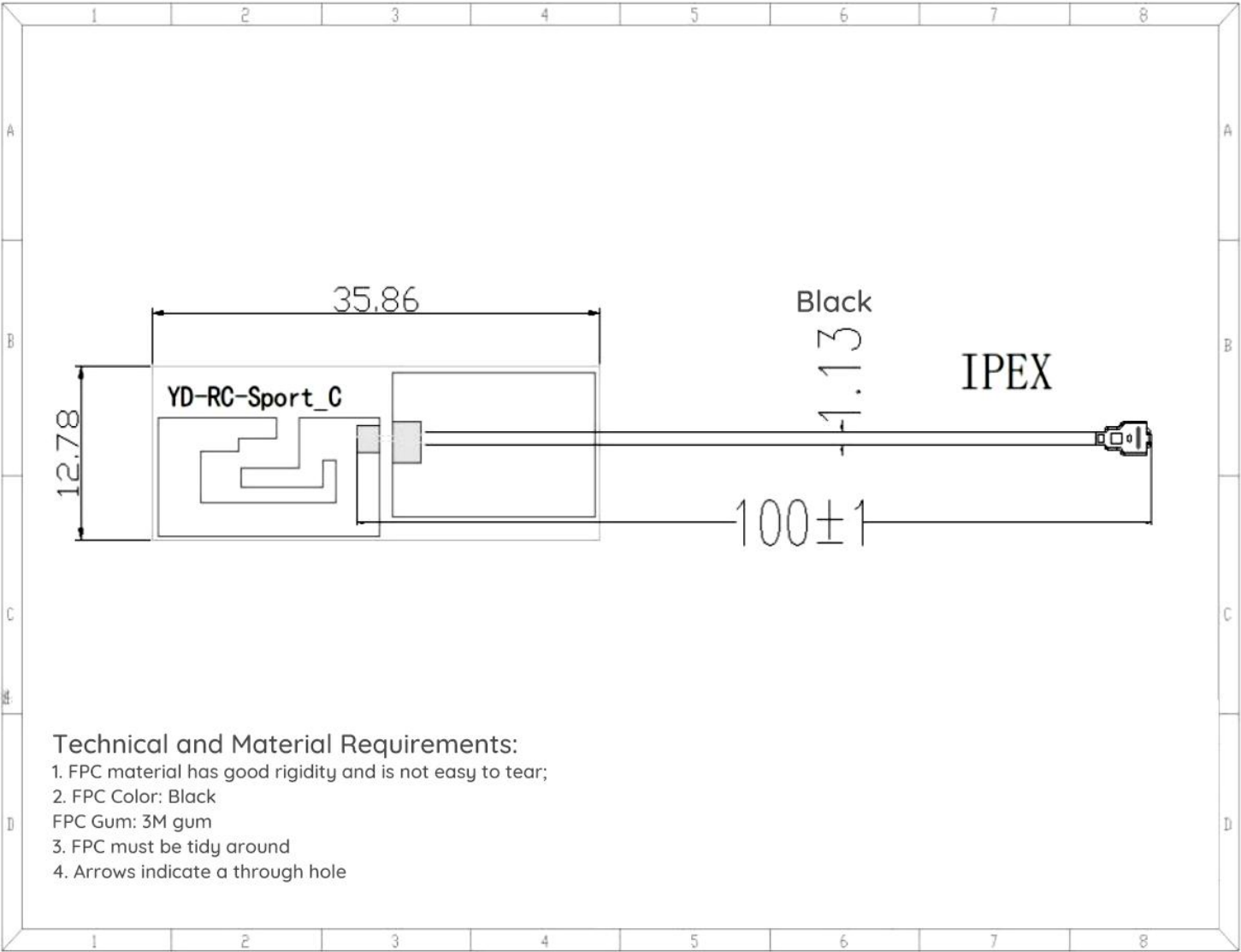


Part Approved Sheet

Product Description	Internal Antenna: S41-WIFI2.4/5.8G-FPC Antenna -L100MM-IPEX
Company Name	Assemblabs Kft North Wing, 5th Floor, Building 1, Weixin Software Technology Park, No. 9, Gaoxin South 9th Road, Nanshan District, Shenzhen, China
Approved Date	16 th , October 2023

1. Antenna Structure Chart



2. Antenna Performance

SWR



3. Antenna assembly picture:



Technical Specifications	
Electrical Specifications	
Frequency Range	2400~2500/5100~5850MHz
VSWR	≤2.0
Gain	2dBi for 2.4G 0dBi for 5G
Input Impedance	50 Ω
Maximum Input Power	50W
Mechanical Specifications	
Antenna Color	Black
Input connector	IPEX
Cable length	100MM
Working Temperature	-40℃~+85℃
Working Humidity	20~80%

RF113 Specification

1. Scope

This specification covers the construction and the electrical properties of wire. Coaxial Wire AWG 32.

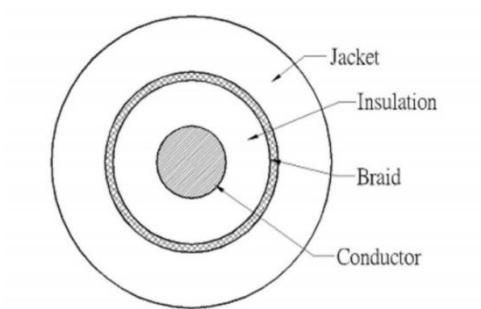
2. Construction

Item		Unit	Details
Conductor	Material	-	Silver-coated copper wire
	Composition	(No./mm)	7/0.08
	OD	mm	0.24
	Orientation	-	S
Insulation	Material	-	FEP
	Insulation color	-	Natural
	Nom. Thickness	mm	0.22
	OD.	mm	0.69
Braid Shield	Material	-	Tinned copper wire
	Composition	(No./mm)	16/4/0.05
	Coverage	(%)	>=90
Jacket	Material	-	FEP
	Nom. Thickness	mm	0.12
	OD	mm	1.13±0.10

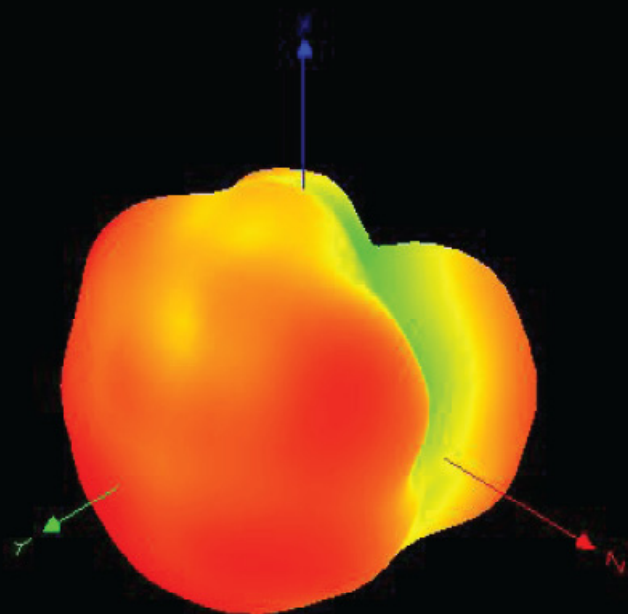
3. Electrical Properties(at 20℃)

Item	Unit	Details
Conductor Resistance	Q/km	571(Max.)
Insulation Resistance	MQ ·km	100(Min.)
Dielectric Strength(AC)	V/ 1 Min	500
Impedance	Ω	50±3
Temperature	℃	200
Rated voltage	V	30

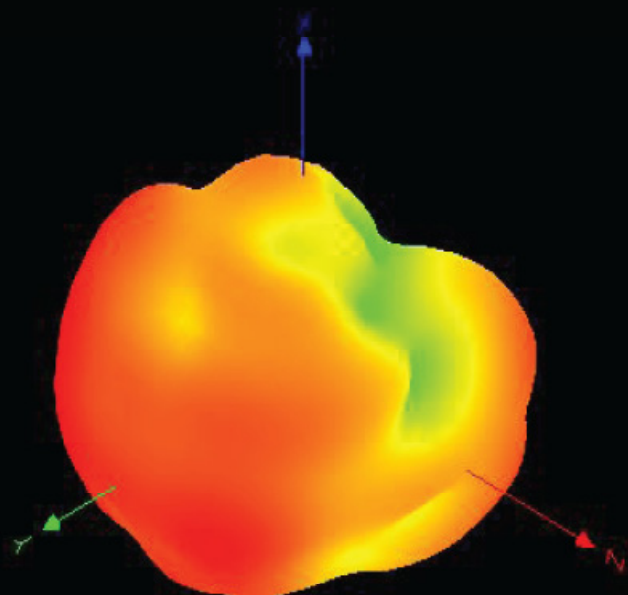
4. The cross-section of the cable as below:



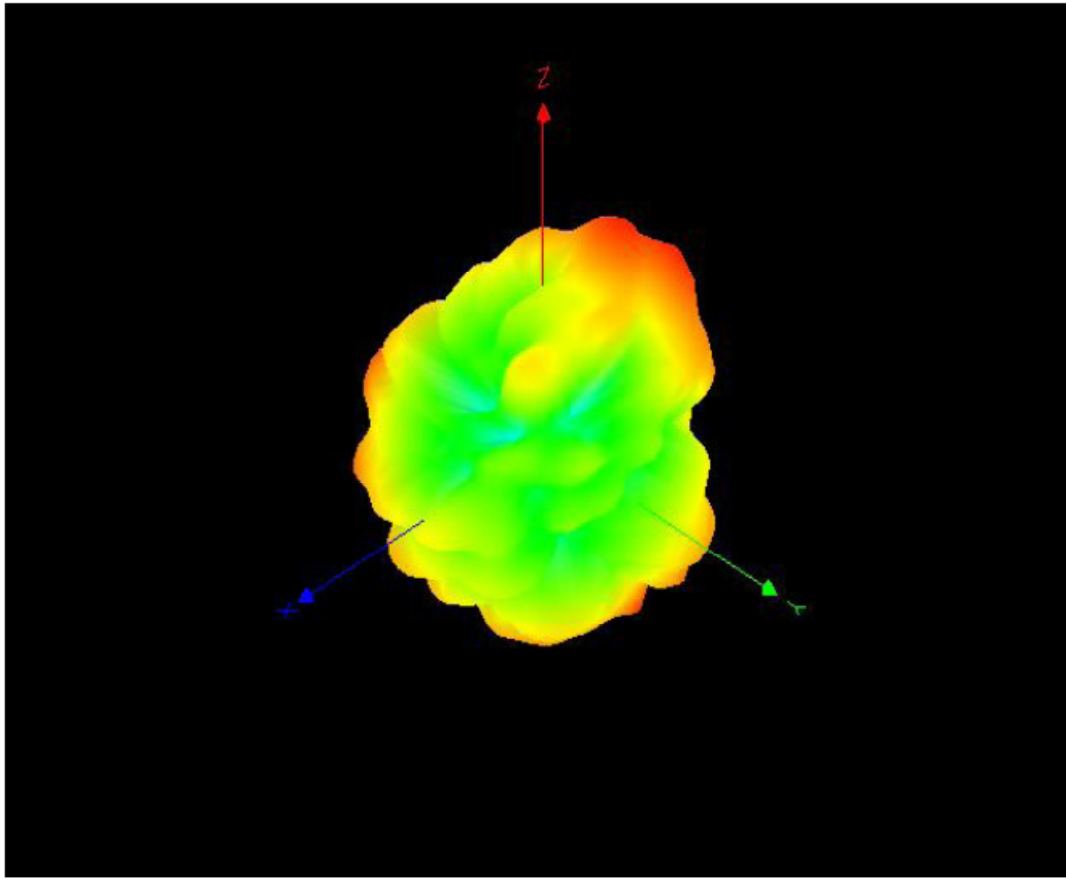
Freq: 2400MHz



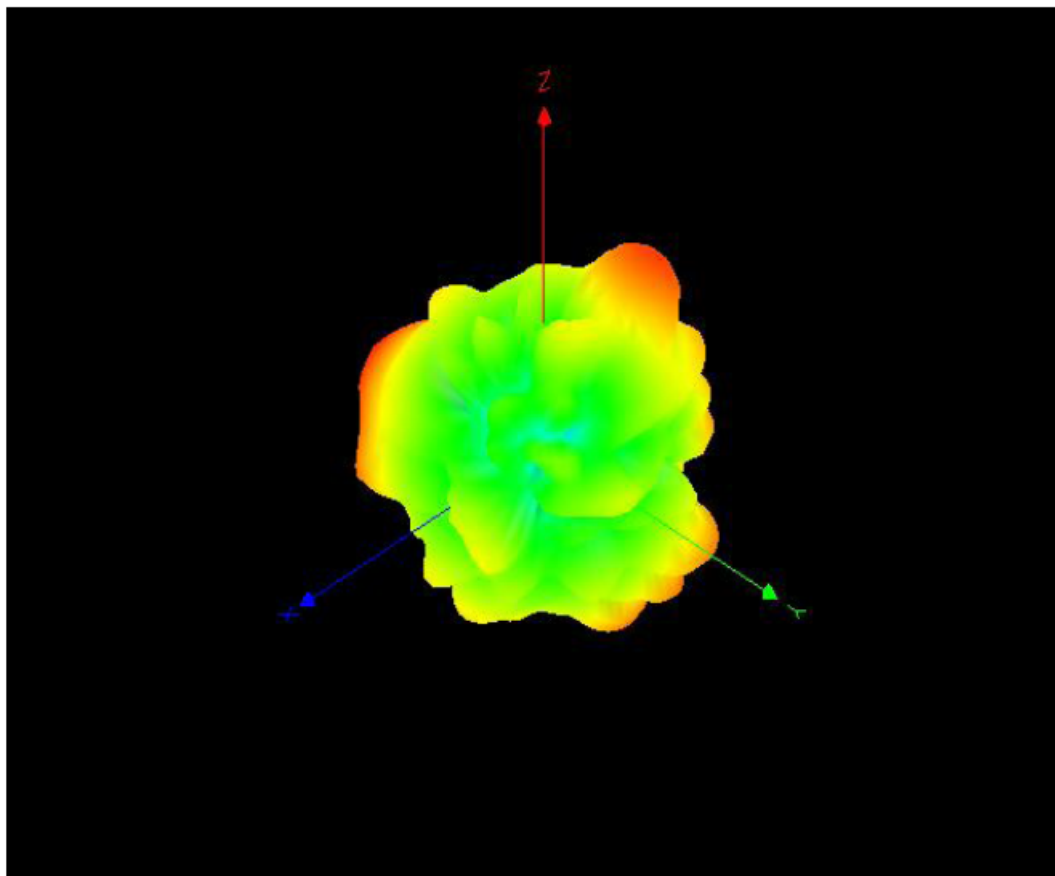
Freq: 2500MHz



5150MHz



5550MHz



5850MHz

