



ACC-6SMRP2U

Data Sheet



6" min co-ax cable with SMA Reverse Polarity jack and u.FL plug

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Document Number: ADS-CC6SMRP2U-1xx

Release Date: December 3, 2014

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About this Data Sheet

This document provides information about the ACC-6SMRP2U 6" miniature co-ax cable with SMA Reverse Polarity jack and u.FL plug.

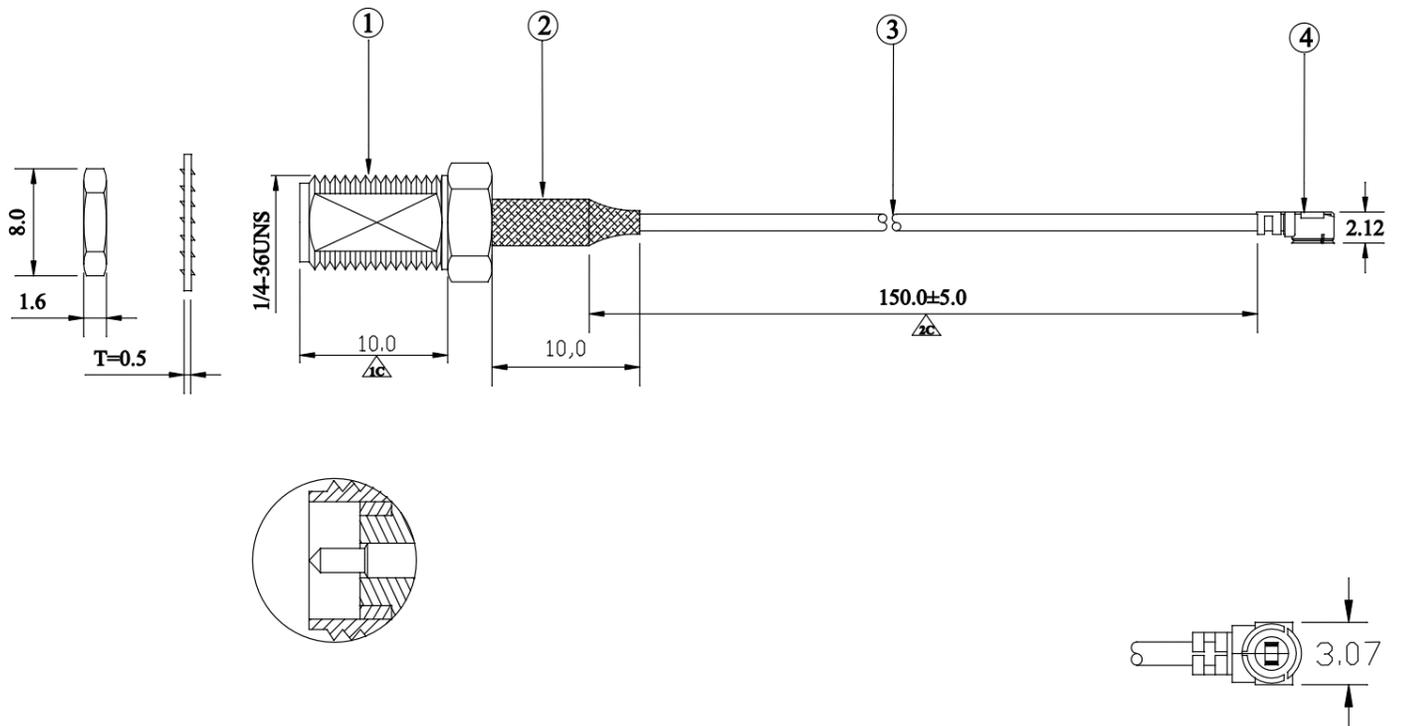
1 Description

The ACC-6SMRP2U is a 50 ohm miniature co-ax cable approximately 6" in length ideally suited for Wi-Fi and Bluetooth communications.

The cable is terminated on one end with an SMA Reverse polarity jack and on the other end with a u.FL plug.

The cable is ideal for Wi-Fi & Bluetooth applications in the 2400 – 2500 MHz band of operation.

Figure 1. ACC-6SMRP2U Drawing



Section	Typ. Diameter (mm)
1 – Screw terminal	6.20
2 – Sheath	3.53
3 – Cable	1.13
4 – Connector (height)	2.12

1.1 Cable Physical Characteristics

Conductor	Size	AWG	32
	Material		Silver Cover Copper
	No. of Conductors		7
	Conductors Size mm	mm	0.085
	O.D.	mm	0.26
Insulation	Average Thickness	mm	0.22
	Diameter	mm	0.70 ± 0.03
	Material		FEP
	Color		Clear
Braid	Material		Tinned Copper
	Construction	mm	16 / 4 / 0.050
	Coverage	%	89.4
Jacket	Average Thickness	mm	0.12
	Diameter	mm	1.13 ± 0.05
	Material		FEP

1.2 Cable Electrical Characteristics

	32AWG
Rating Temp. Voltage	105°C 30V
Conductor Resistance	482 OHM/KM/20°C Max
Insulation Resistance	3000 MEGA Ohm-Km Minute
Dielectric Strength	AC 1000 V/Minute
Spark Test	2 KV
Nom. Impedance	50 ± 3 Ohms
Nom. Capacitance	96 ± 3 pF/m
Nom. Vel. of Prop.	69%
VSWR Test (0 – 6 GHZ)	Max 1.3
Flame Test	VW-1 OK
Bend Radius	Min 7mm

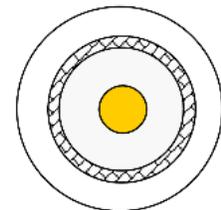


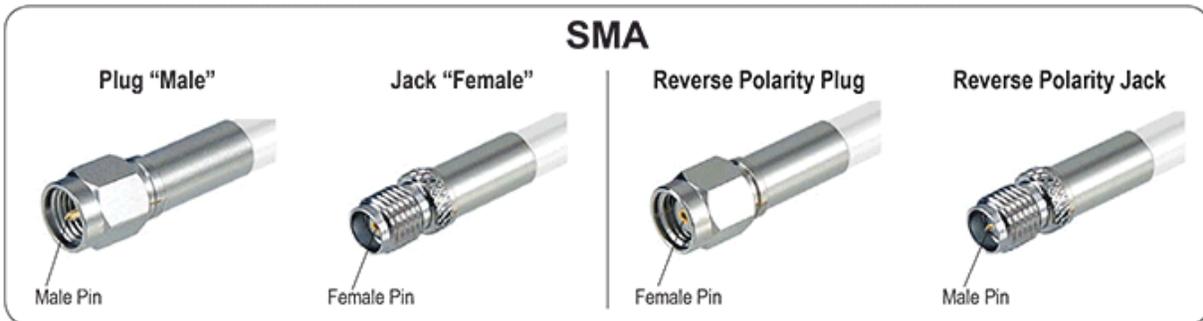
Figure 2 - Cable cross-section

Attenuation	Frequency GHz	2.0	2.4	2.5	5.0	6.0
	dB/1m	2.90	3.20	3.28	5.05	5.40

Appendix A – SMA Connector Types

To keep everyone guessing, the industry offers four different types of SMA connectors depicted in the figure below.

The ACA-1SSRPP-2400 comes with a Straight SMA Reverse Polarity Plug connector with a female center pin as depicted by the large arrow underneath the following picture.



The SMA connector on the
ACC-6SMRP2U cable
looks like this

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ADS-CC6SMRP2U-102R • Preliminary Data Sheet
December 3, 2014

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