Brands We Work With

We are fortunate to work alongside world-class brands
for many electronic projects and trusted by them.
Will your name be next on this list ?

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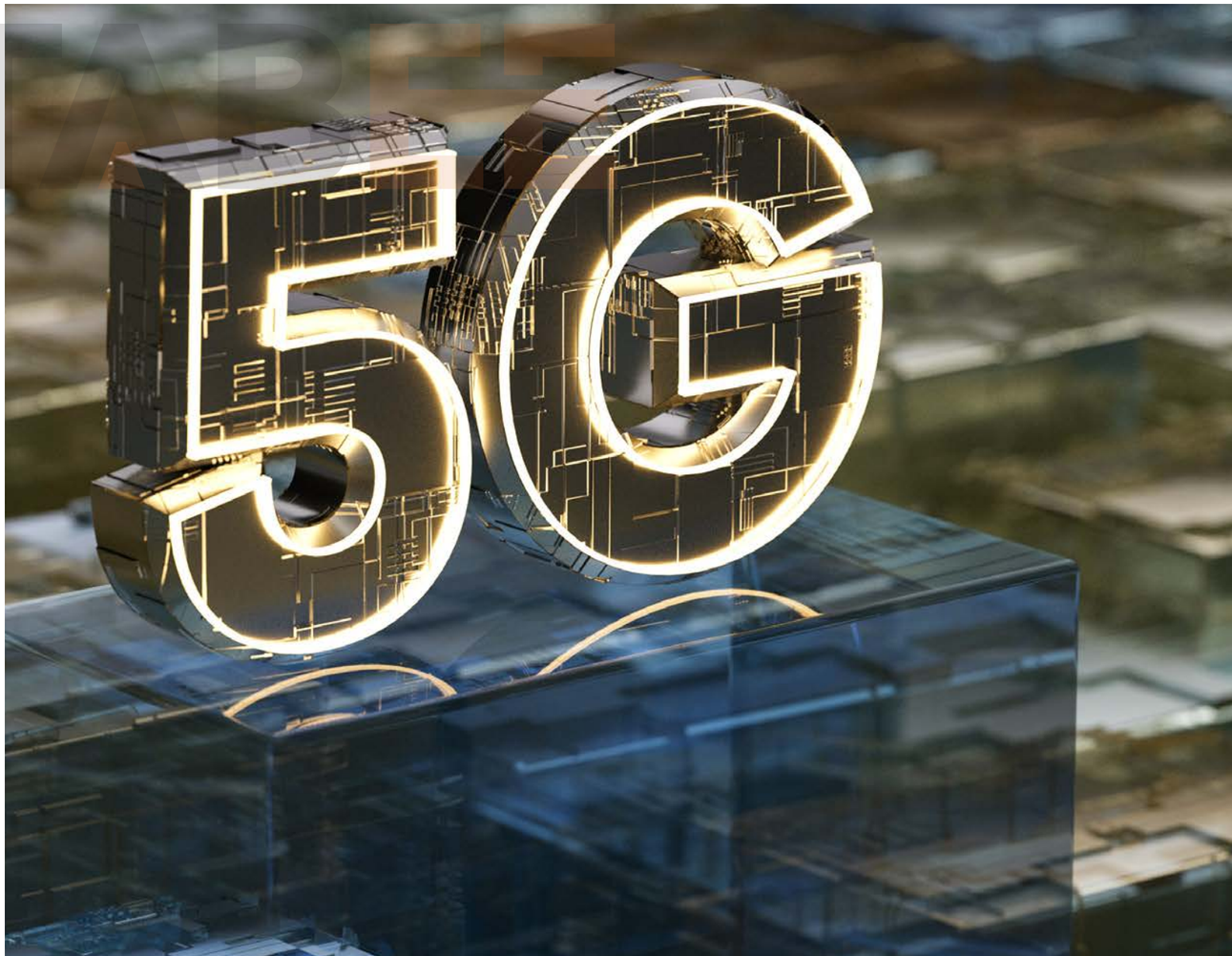
Professional Antenna Manufacturer Since 2005

ONE-STOP ANTENNA SUPPLIER



METABEE

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Metabee (Chengdu) Technology Co., Ltd.

180+	300+	20,000M²	16,0000,00
Countries	Workers	Production Workshop	Group Assets

Metabee (Chengdu) Technology Co., Ltd. established in 2022 located in Sichuan Province with convenient transportation. Our associated factory Jiangmen Dosin specialize in producing RF connectors, M series connectors, and cables.

We are committed to being the world's leading Manufacturer of electronic connectors and industrial cables. We have developed more than 20 product series and more than 5,000 varieties. These products have been widely sold to many countries and regions around the world. They are mainly used for outdoor lighting automation machinery, new energy vehicles, charging equipment, electricity generation facilities, and other industries.

We can also support OEM ODM and customized related products. All products have owned American UL, German TUV, and Europe CE ROHS certifications and have several design patents. Our associated factory has production workshop with an area of 20,000 square meters, more than 300 employees, 30 international advanced production lines, and tens of precision testing equipment. Moreover, we have constructed a specialized laboratory for product research and development. Our reliable product quality, good service, and rapid technical have helped us win many customers in China and overseas markets.

Metabee (Chengdu) Technology Co., Ltd. has become the leading technology and scale Enterprise in the connector field. We have a reliable reputation among our customers because of our professional services, quality products, and competitive prices. We welcome customers from home and abroad to cooperate with us for Common success.

+

CATEGORIES

We stand behind all of our high quality products.
With everything we manufacture we use the best processes and materials available.

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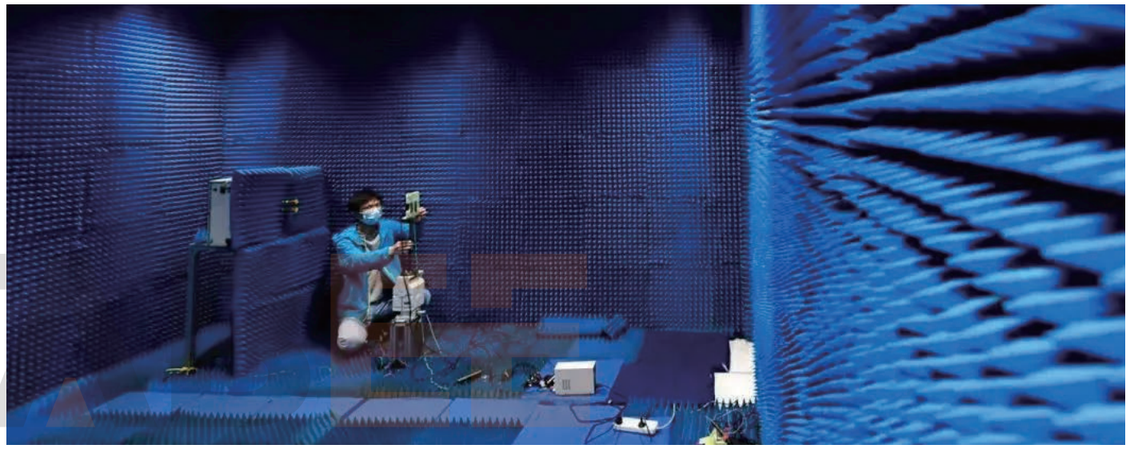


Automatic Insertion
Force Test Machine

High Voltage
Insulation Tester

S-parameter Ventor
Network Analyzer(VND)

Salt Spray
Test Machine

Constant Temperature
and Humidity Machine

Precision Connector
Tester

Hardness Testing
Machine

X Ray Fluorescence
Analyzer

WIFI
Antenna

WIFI antenna is one kind of wireless antennas.

The frequency of WLAN is **2.4GHz** and **5.8GHz**. WIFI antenna(WLAN antenna) is installed on wireless devices like WLAN AP to reinforce signal strength.

Wireless device will radiate signal in air at specified frequency 2.4GHz or 5.8GHz through WIFI antenna / WLAN antennas and allow other WIAN device like NB or smartphone to get signal at same frequency range.

There are two types of WIFI antennas: internal and external.

External is generally used in products such as wireless routers.

The internal WIFI antenna is usually installed inside the equipment due to its small size and stable performance.

Frequency	**2.4GHz**(2400-2500MHz) & **5.8GHz**(5725-5850MHz)
Gain	1 - 12dBi
Impedance	50ohm
Input Power	50W
VSWR	≤ 2
Polarization	Omnidirectional
Connector	SMA, BNC, TNC, Fakra or Customize
Cable Type	1.13 / 1.37 / RG174 / RG178 / RG58 or Customize
Cable length	0.1M,0.5M, 1M, 3M or Customize
Material	ABS / Fiberglass / Rubber Duck / FPC / PCB etc
Operating Temp	- 30~+ 70 ℃
Storage Temp	- 30~+ 75 ℃

Rubber Duck Antenna
with SMA Connector

Rubber Duck Antenna
with Cable

Magnetic Sucker Antenna
with Cable

WIFI Fiberglass Antenna
with N Connector

Patch Antenna
with Cable

Panel Mount Finger Antenna
with Cable

Mashroom Panel Mount Antenna
with Cable

Panel Mount Circular
Antenna with Cable

Yagi Antenna
with Cable

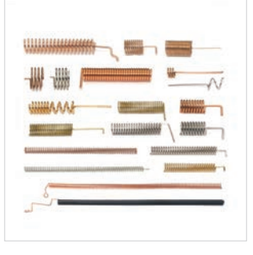
Outdoor Gunbarrel
Antenna with Cable

Ceiling Mounted
Antenna with Cable

Magnetic Mounted
Antenna with Cable

Internal FPC
Antenna with Cable

Internal PCB Antenna
with Cable



Internal Spring Antenna

Internal Copper Tubes Antenna

Cellular Antenna

Global System for Mobile(GSM)antenna is a type of antenna commonly used in mobile phones and cell towers.

Global System for Mobile Communications is the most common type of cellular network worldwide.

The antenna in a GSM phone allows the device to communicate with another GSM antenna on a cell tower,which then relays the signal to another tower or to another cell phone.

GSM service can be used on a number of radio frequency depending on the region and technology used.

Application

CDMA/CDMA2000

GSM/TD-SCDMA

GPRS

WCDMA

Frequency	2G / GSM 850 / 900 / 1800 / 1900MHz 3G 850 / 900 / 1800 / 2100MHz 4G LTE 824-2690MHz / 698-2700MHz / 700-2690MHz
Gain	2 - 35dBi
VSWR	≤ 1.8
Impedance	50ohm
Polarization	Omnidirectional
Connector	SMA, BNC, TNC, N or Customize
Cable Type	1.13 / 1.37 / RG174 / RG178 / RG58 or Customize
Cable Length	0.1M,0.3M, 0.5M, 1M or Customize
Material	ABS / Fiberglass / Rubber Duck / FPC / PCB etc
Operating Temp	- 30~+ 70 ℃
Storage Temp	- 30~+ 75 ℃

Rubber Duck Antenna with SMA Connector

Rubber Duck Antenna with Cable

Magnetic Sucker Antenna with Cable

Fiberglass Antenna with N Connector

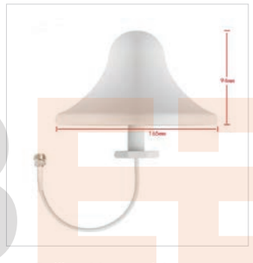
Patch Antenna with Cable

Panel Mount Finger Antenna with Cable

Mashroom Panel Mount Antenna with Cable

Panel Mount Circular Antenna with Cable

Outdoor Gunbarrel Antenna with Cable



Ceiling Mounted Antenna with Cable

LPDA Directional Antenna with Cable

Sailboat Sucker Antenna with Cable

Internal FPC Antenna with Cable

Internal PCB Antenna with Cable

Internal Spring Antenna

Internal Copper Tubes Antenna

4G High Gain MIMO Antenna with Cable

4G Amplified Antenna Full Band T-type Horn Antenna with Cable

2G/3G/4G Signal Amplifier High Gain DirectionalYagi Antenna with Cable

Communication Parabolic High Gain Directional Yagi Antenna

LoRa
Antenna

LoRa antennas, also called Low Power Wide Area Network (LPWAN) antennas, use advanced signal processing to achieve long-range communications at wavelengths smaller than 1 GHz.

Its common frequencies are as follows: 315MHz, 433MHz, 868MHz and 915MHz.

If classified by material and shape, it can be divided into rubber duck antenna, fiberglass antenna, PCB antenna, FPC antenna,spring antenna, patch antenna and Magnetic antenna etc.

Frequency	315MHz	433MHz	868MHz	915MHz
Gain	1 - 8dBi	1 - 35dBi	1 - 35dBi	1 - 35dBi
VSWR	≤ 1.5	≤ 1.8	≤ 2	≤ 2
Bandwidth	±5MHz			
Impedance	50ohm			
Polarization	Vertical / Linear			
Max Power	50W			
Direction	Omnidirectional			
Connector	SMA, BNC, TNC, Fakra or Customize			
Cable Type	1.13 / 1.37 / RG174 / RG178 / RG58 or Customize			
Cable Length	0.5M, 1M, 3M or Customize			
Material	Brass / Fiberglass / ABS / Ceramic / FPC / PCB etc			
Operating Temp	- 30~+ 70 ℃			
Storage Temp	- 30~+ 75 ℃			

Rubber Duck Antenna

Rubber Duck Antenna with Cable

Magnetic Sucker Antenna with Cable

Fiberglass Antenna with N Connector

FPC Antenna with Cable

PCB Antenna with Cable

Brass Spring Antenna

Internal Copper Tubes Antenna

Patch Antenna with Cable

Panel Mount Finger Antenna with Cable

Mashroom Panel Mount Antenna with Cable

Panel Mount Circular Antenna with Cable

Rubber Duck Magnetic Sucker Antenna with Cable

GSM GPRS T Shape Horn Patch Antenna

Ceiling Mounted Antenna with Cable

Plate Antenna with Cable

GPS
Antenna

GLONASS(Global Navigation Satellite System) is a Russian Aerospace Defense Force-operated satellite-based navigation system.

The GPS signal is the signal generated by an oscillator on the Global Positioning System (GPS) satellite, and all of the GPS signals are composed of a basic frequency, f0=10.23MHz.

The GPS satellite signals are divided into L1 and L2 at frequencies of 1575.42MHZ and 1228MHZ, respectively, where L1 is an open civilian signal and the signal is circularly polarized.

The signal strength is around-166dBW, which belongs to a relatively weak signal.

Frequency	1575.42MHz
Gain	3 - 28dBi
VSWR	≤1.8
Amplification Gain	≥ 28-dB
Bandwidth	± 5-MHz
Rate Voltage	3 - 5V
Impedance	50ohm
Polarization	Linear
Max Power	50W
Direction	Omnidirectional
Connector	SMA, BNC, TNC, Fakra or Customize
Cable Type	1.13 / 1.37 / RG174 / RG178 / RG58 or Customize
Cable Length	0.5M, 1M, 3M or Customize
Material	ABS / Ceramic / FPC / PCB etc
Operating Temp	- 30~+ 70 ℃
Storage Temp	- 30~+ 75 ℃

GPS Antenna with Fakra Connector and Cable

GPS Antenna with SMA Male Connector and Cable

Square GPS Antenna with SMA Connector and Cable

Adhesive GPS Antenna with SMA Connector and Cable

White Mushroom Type Marine GPS Antenna with BNC Male and Cable

White AIS Navigator Positioning GPS Antenna with Cable

White AIS Navigator Positioning GPS Antenna with M Series Cable

Circular Type Panel Mount GPS Antenna with Cable

Waterproof Mashroom Type Panel Mount GPS Antenna with Cable

Hybrid Vehicle GPS Antenna with Cable

Ceramic GPS Antenna with IPEX Connector and Cable

Internal PCB GPS Antenna with IPEX Connector and Cable

Internal FPC GPS Antenna with IPEX Connector and Cable

Fiberglass GPS Antenna with N Connector

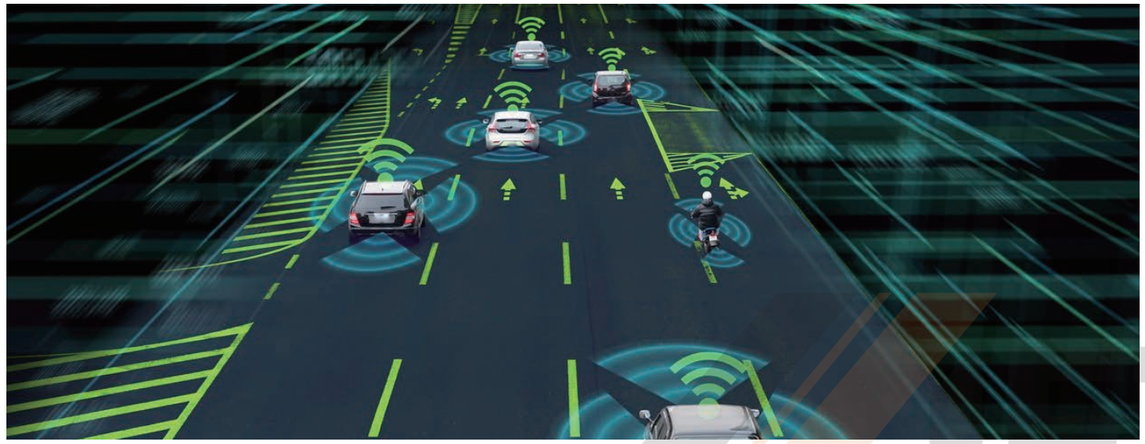
FPV Navigation RTK GPS Antenna with SMA Connector

External Rubber Duck GPS Antenna with N Connector

Combo Antenna

Combo antennas mainly involve GPS/GSM antenna, GPS/VHF antenna, GPS/GLONASS/GSM antenna, GPS/GLONASS/VHF antenna, GPS/GSM/WIFI antenna, GPS/DVBT antenna for marine or vehicle locating using.

The combined antenna can combine multiple antenna oscillators of different or the same functions in one antenna cover, and complete multiple antenna module functions through a single antenna, thus saving space and cost, and can better meet the market demand.



Frequency	GPS / GSM / 3G / 4G LTE / WIFI Combined According to Request
Gain	28 dBi
VSWR	≤ 1.8
Amplification Gain	≥ 28-dB
Bandwidth	± 5-MHz
Rate Voltage	3 - 5V
Impedance	50ohm
Polarization	Linear
Max power	50W
Direction	Omnidirectional
Connector	SMA, BNC, TNC, Fakra or Customize
Cable Type	RG174 / RG178 / RG58 or Customize
Cable Length	0.5M, 1M, 3M or Customize
Material	ABS / FPC / PCB etc
Operating Temp	- 30~+ 70 ℃
Storage Temp	- 30~+ 75 ℃

GPS Antenna with Fakra Connector and Cable

GPS Antenna with SMA Male Connector and Cable

Square GPS Antenna with SMA Connector and Cable

Adhesive GPS Antenna with SMA Connector and Cable

White Mushroom Type Marine GPS Antenna with BNC Male and Cable

White AIS Navigator Positioning GPS Antenna with Cable

White AIS Navigator Positioning GPS Antenna with M Series Cable

Circular Type Panel Mount GPS Antenna with Cable

Waterproof Mashroom Type Panel Mount GPS Antenna with Cable

Hybrid Vehicle GPS Antenna with Cable

Ceramic GPS Antenna with IPEX Connector and Cable

Internal PCB GPS Antenna with IPEX Connector and Cable

Internal FPC GPS Antenna with IPEX Connector and Cable

Fiberglass GPS Antenna with N Connector

FPV Navigation RTK GPS Antenna with SMA Connector

External Rubber Duck GPS Antenna with N Connector

DVB-TV Antenna

The television antenna (TV Antenna) is an antenna specifically designed for use with a television receiver (TV) to receive over-the-air broadcast television signals from a television station. Television reception is dependent upon the antenna as well as the transmitter. Terrestrial television is broadcast on frequencies from about 174 to 240 MHz (VHF) band, and 470 to 860 MHz (UHF) band in different countries.

DVB-T is a very popular method of transmitting signals from aerial antenna to aerial antenna. Common DVB-T2 TV antennas are used to receive digital signals. Directional DVB-T2 TV antennas are more suitable for places with weak signals.

Frequency Range	174-240MHz (VHF) / 470-860MHz (UHF)
Gain	2 -36dBi
V.S.W.R	≤ 2.0
Impedance	75Ohm
Directional	Omni
Polarization	Vertical
Power Suply	5V
Connector	IEC / F / SMA / USB or Customize
Cable	RG174 / RG58 or Customize
Cable Length	1.5M / 3M / 5M or Customized
Reception Range	30 - 80M
Operating Temperture	-40°C ~＋85°C

DTMB Car Digital TV Magnetic Antenna

Car UHF Digital TV Antenna with Cable

HDTV Magnetic Sucker Antenna with Cable

HDTV Panel Mount DVB-TV Antenna

Rabbit Ear Indoor Signal Digital TV Antenna

Magnetic Sucker Telescopic Antenna

DVB-TV Telescopic Antenna

Outdoor Yagi TV Antenna

Sheep Type VHF UHF TV Antenna

High Gain Indoor DTMB Antenna

DMB-TH Sucker Antenna with Cable

Waterproof TV Plate Anetenna with Cable

Outdoor Gunbarrel Antenna with Cable

Plate Antenna with Cable

LPDA Directional Antenna with Cable

HDTV Dish Antenna

FPV
Antenna

An antenna is a piece of wire, or pieces of wire that convert electrical power into electromagnetic waves. The receiving antenna converts the electromagnetic waves back into electrical power.

In FPV, antennas (or antennae) enable wireless communication between the video transmitter (VTX) and receiver (VRX). Antennas in your FPV system are critical elements that determine the range and signal quality

- 5.8 GHz. The most common FPV frequency, used by most multirotor and drone pilots is 5.8 GHz.
- 2.4 GHz. 2.4 GHz is another frequency used by FPV fliers

Frequency	5.8GHz (5100-5950MHz) & 2.4GHz(2400-2642MHz)
Gain	2 - 14dBi
VSWR	≤ 1.8
Rate Voltage	3 - 36V
Impedance	50ohm
Polarization	Omnidirectional
Connector	SMA, BNC, TNC, N or Customize
Cable Type	1.13 / 1.37 / RG174 / RG178 / RG58 or Customize
Cable Length	0.2M,0.5M, 1M, 3M or Customize
Material	TPE / PC / CU
Operating Temp	- 30~+ 70 ℃
Storage Temp	- 30~+ 75 ℃

Mashroom Type FPV Antenna with SMA Male Cable

Pagoda FPV Antenna with SMA Male Cable

Mashroom Type FPV Antenna with SMA Male Cable

White Color Mashroom Type FPV Antenna with SMA Male Cable

Mashroom Type Screw Mount Antenna with RG174 Cable

Dome Type Screw Mount Antenna with RG178 Cable

Finger Type Panel Mount Antenna with RG174 Cable

Finger Type Antenna with Fakra Male RG174 Cable

Sheep Type VHF UHF TV Antenna

Cloverleaf Type FPV Antenna with IPEX RG178 Cable

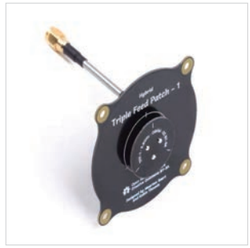
Mini Mashroom Type FPV Antenna with SMA Male Connector

Barbell Type White Antenna with IPEX Cable

Dome Type Antenna Assembly SMA Male RG174 Cable in side

Triumph antenna FPV Antenna SMA Male Connector

Red Color Pagoda Shape Antenna with SMA Right Angle Male Assembly RG141 Cable



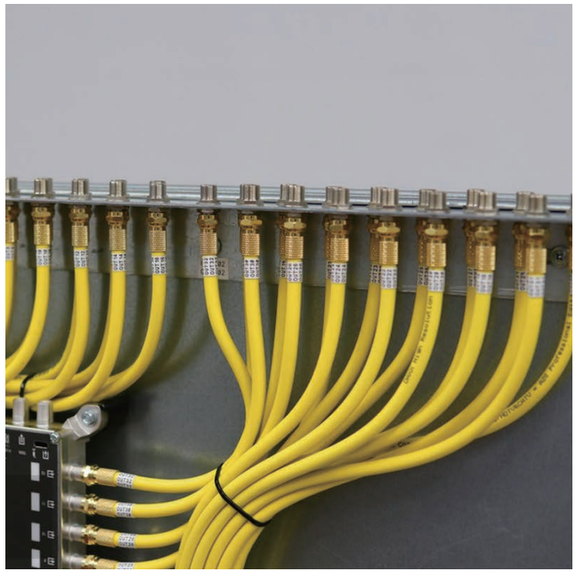
Glasses Type Antenna Assemble White RG141 SMA Male Cable

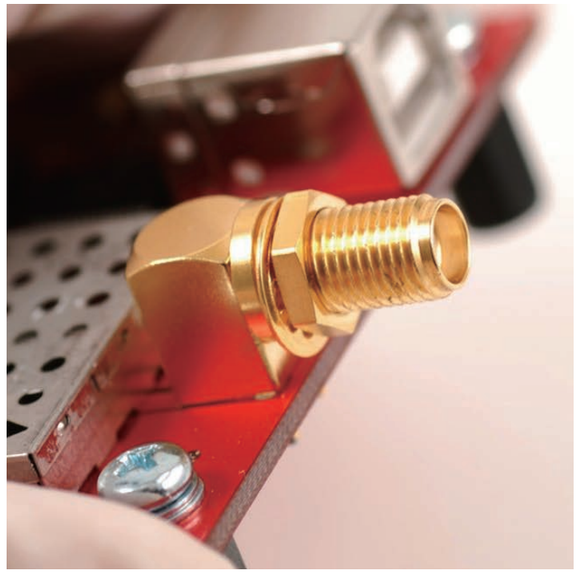
RG Series
Coaxial Cable

RF offers a robust portfolio of coaxial cables assemblies for use in radio frequency applications. These assemblies are available for all industry standard coax cable types engineered with in-series (similar) or between-series (dissimilar) interfaces, or in some cases an unterminated or blunt cut end on one side of the assembly.

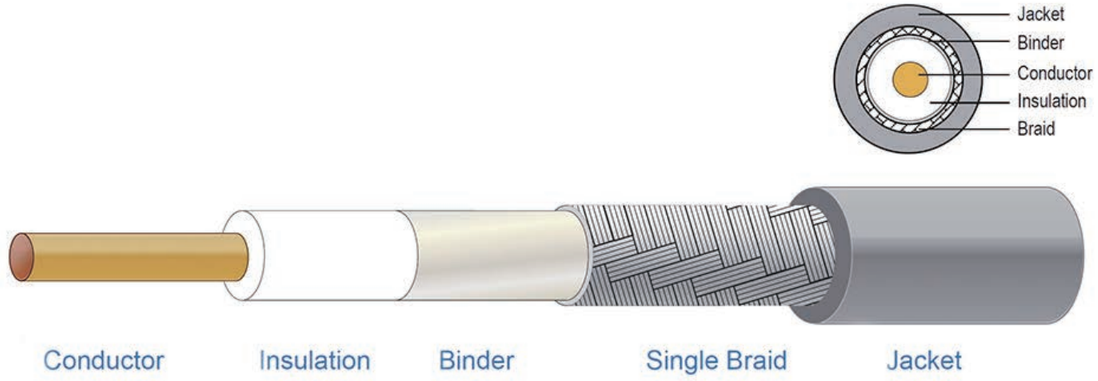
Coaxial cable assemblies are an ideal solution for transmitting RF signals from one connection to the next within a system. They are most often used to connect a Printed Circuit Board (PCBs) to other PCBs but can also be used for I/O connections and to connect external antennas to wireless modules. Assemblies can vary in length from 2 inches (50 mm) to 1200 inches (100 feet) with various configurations (female (jack) to female, male (plug) to male, female to male, male to female), orientation (straight, right-angle) and mounting (bulkhead) options. These attributes, along with unique design features, allow standard assemblies to meet the specific design requirements of various applications across markets.

Our line of high-performance precision test cables (ATC-PS) feature additional phase stable and low loss capabilities which makes them ideal for test and measurement laboratory usage. Custom cable assemblies are available and offer a more tailored solution than standard products.





Structure Diagram of RF Harness



RG Series Coaxial Cable

Cable Type	Inner Conductor		OD mm	Insulation	OD mm	Jacket		OD mm	Impedance (ohm)	Temperature (℃)
	Material			Material		Material				
RG178	Silver plated copper or Silver plated copper clad steel		7×0.102	PTFE	0.86	FEP		1.83	50	-55 to +200
RG179	Silver Plated Copper Clad Steel		7×0.102	PTFE	1.6	FEP		2.54	75	-55 to +200
RG316	Silver plated copper		7×0.17	PTFE	1.52	FEP		2.5	50	-55 to +200
RG174	Bare copper		7×0.16	PE	1.52	PVC		2.6	50	-40 to +80
RG58	Tinned copper		19×0.18	PE	2.95	PVC		4.95	50	-20 to +80
RG59	Bare copper		0.81	FPE	3.66	PVC or PE		6.1	75	-20 to +80
RG141	Silver Plated Copper Clad Steel		0.94	PTFE	2.95	Glass fiber weaving		4.83	50	-55 to +250
RG142	Silver Plated Copper Clad Steel		0.94	PTFE	2.95	FEP		4.95	50	-55 to +200
RG316D	Silver Plated Copper Clad Steel		7×0.17	PTFE	1.52	FEP		2.9	50	-55 to +200
RG223	Silver plated copper		0.9	PE	2.95	PVC		5.3	50	-40 to +80
RG6	Bare copper		0.75	PE	4.8	PVC		7.2	75	-40 to +80
RG8	Bare copper		2.74	PE	7.3	PVC		10	50	-40 to +80
RG11	Bare copper		1.37	PE	9	PVC		12.2	75	-40 to +80
RG213	Bare copper		7×0.75	PE	7.24	PVC		10.3	50	-40 to +80
RG214	Bare copper		7×0.75	PE	7.24	PVC		10.8	50	-40 to +80

LMR Series Coaxial Cable

Cable Type	Inner Conductor		Insulation		Jacket		Impedance (ohm)	Temperature (℃)
	Material	OD mm	Material	OD mm	Material	OD mm		
3D-FB	Bare copper/Copper clad aluminum	1/1.07	FPE	3	PVC	5	50	-25 to +70
5D-FB	Bare copper/Copper clad aluminum	1/1.8	FPE	5	PVC	7.5	50	-25 to +70
7D-FB	Bare copper/Copper clad aluminum	1/2.5	FPE	7.24	PVC	9.8	50	-25 to +70
8D-FB	Bare copper/Copper clad aluminum	1/2.8	FPE	7.8	PVC	10.4	50	-25 to +70
LMR-100	Bare copper/Copper clad aluminum	0.46	FPE	1.52	PVC	2.79	50	-25 to +70
LMR-195	Bare copper/Copper clad aluminum	0.94	FPE	2.79	PVC	4.95	50	-25 to +70
LMR-200	Bare copper/Copper clad aluminum	1.12	FPE	2.95	PVC	4.95	50	-25 to +70
LMR-240	Bare copper/Copper clad aluminum	1.42	FPE	3.81	PVC	6.1	50	-25 to +70
LMR-300	Bare copper/Copper clad aluminum	1.78	FPE	7.83	PVC	7.62	50	-25 to +70
LMR-400	Bare copper/Copper clad aluminum	2.74	FPE	7.24	PVC	10.29	50	-25 to +70
LMR-500	Bare copper/Copper clad aluminum	3.61	FPE	9.4	PVC	12.7	50	-25 to +70
LMR-600	Bare copper/Copper clad aluminum	4.47	FPE	11.56	PVC	14.99	50	-25 to +70