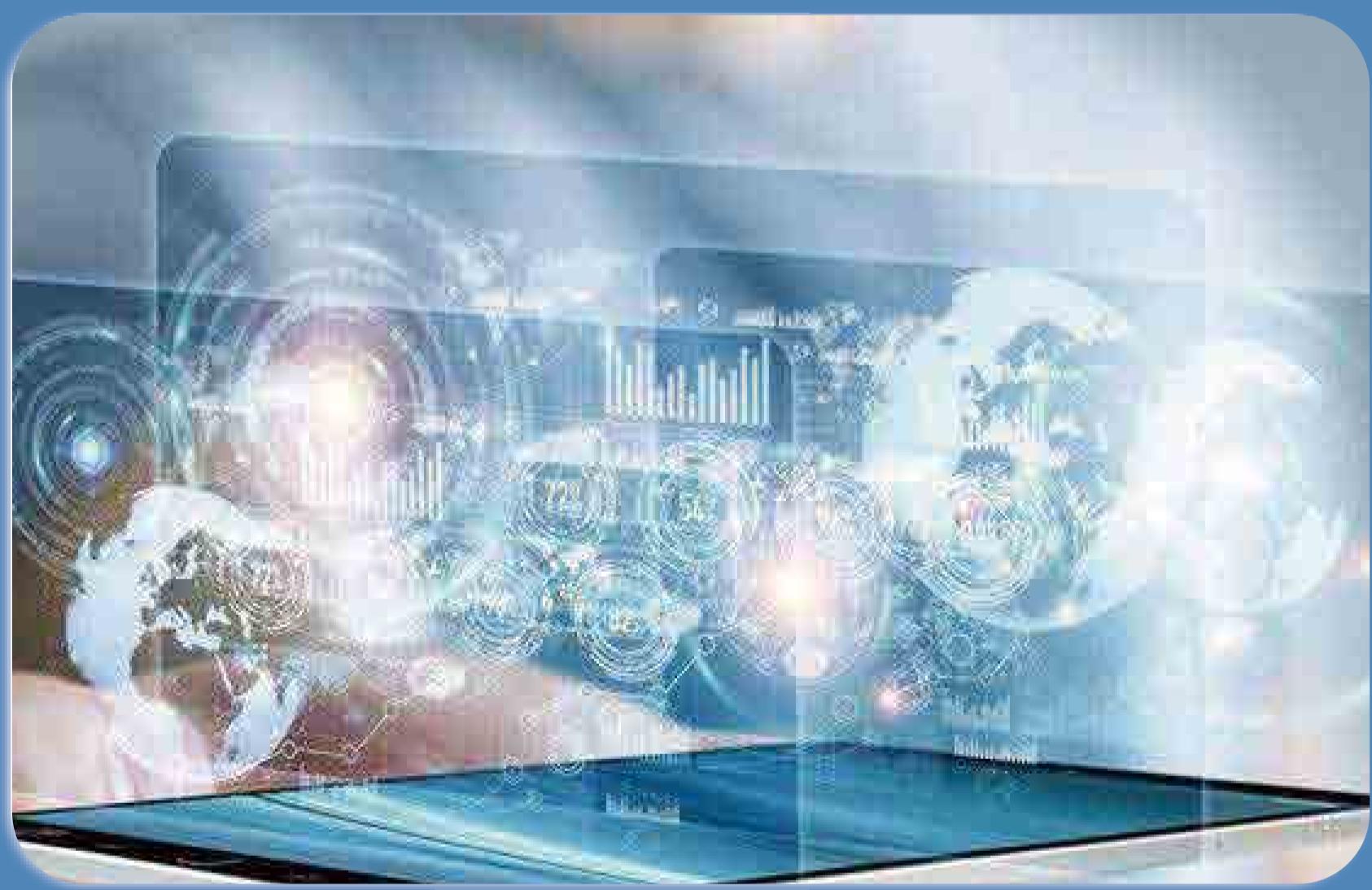
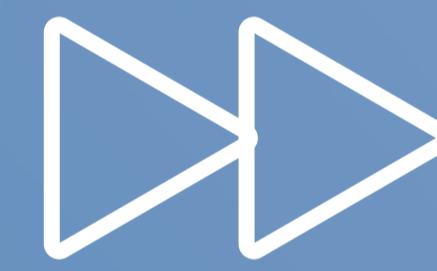




IOT(Internet of Things) Antennas Product Manual



Company Profile:

Shenzhen Superbat Electronics Co.,Ltd was established in 2008, we specialise in manufacturing RF antennas, coaxial cable assemblies and RF connectors, as well as providing coaxial cable customisation services. We provide high performance and costeffective solutions for RF users worldwide.

*RF Antenna

*RF Connector Adapter

*RF Cable Assembly

*RF Coaxial Cable



What are our advantages?

Reliable And Safe Quality

- Sturdy Shell
- Waterproof and Moisture-proof
- Eco-friendly and Non-toxic

Installation-friendly

- Magnetic Mounting
- Perforated Mounting

Excellent After-sales Service

- Good Service Attitude
- Cost-effective Solutions



Antennas in IoT:

IoT enables intelligent identification, location, tracking, and management of items, meeting the information exchange needs between people, things, and objects. Wireless communication transmission is an important link in achieving the interconnection of all things. Antennas can convert electrical signals and electromagnetic signals to each other to realize the connection between IoT devices, while also enhancing the signal transmission power and coverage. Therefore, antennas play a crucial role in facilitating data exchange of IoT. Based on the specific needs and difficulties in the design and production of antennas, it is particularly important to cooperate with professional company.

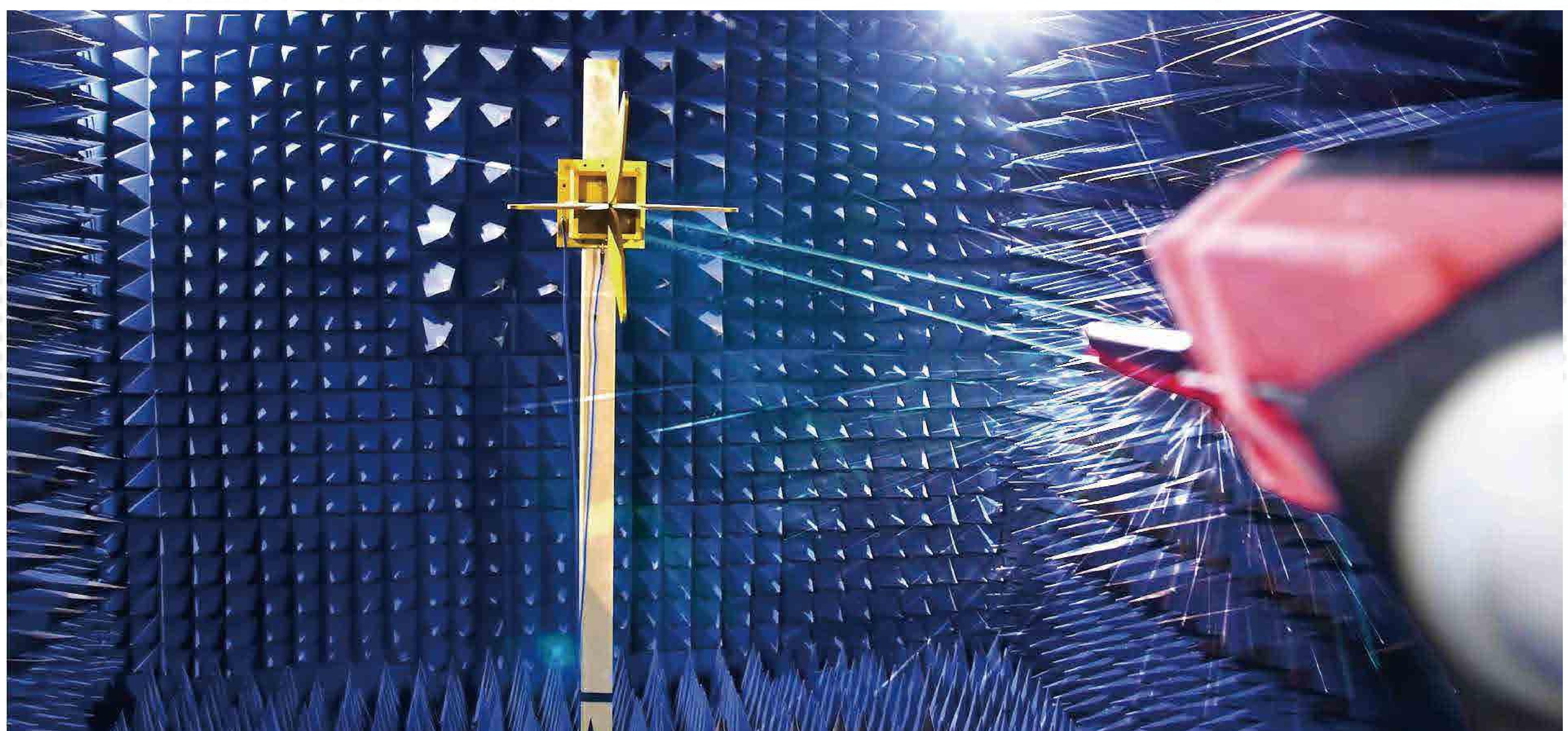


Professional Testing Instrument

*Microwave Darkroom
*Vector Network Analyzer

Professional Production Line

*Excellent Equipment
*Standardized Operation





GA45-300

GPS Antenna

VSWR: <1.5
 Gain: 2.0dBi
 Impedance: 50Ω
 Polarization: RHCP
 Frequency: 1575.42MHz±1.023MHz



4G LTE Antenna MAIN

VSWR: <3.0
 Gain: 2.5dBi
 Impedance: 50Ω
 Polarization: Linear
 Frequency: 698~2690MHz

4G LTE Antenna AUX

VSWR: <3.0
 Gain: 2.0dBi
 Impedance: 50Ω
 Polarization: Linear
 Frequency: 698~2690MHz

*Option of Cable Length

*Option of Connector Type

*Option of Cable Waven jacket

GA46-300

GPS Antenna

VSWR: <1.5
 Gain: 2.0dBi
 Impedance: 50Ω
 Polarization: RHCP
 Frequency: 1575.42MHz±1.023MHz

4G LTE Antenna

VSWR: <2.0
 Gain: 2.0dBi
 Impedance: 50Ω
 Polarization: Linear
 Frequency: 698~2655MHz

Cable Type: RG174
 Mounting Type: Screw

*Option of Cable Length
 *Option of Connector Type
 *Option of Cable Waven jacket





GA47-300

GPS Antenna

VSWR:	<1.5
Gain:	2.0dBi
Impedance:	50Ω
Polarization:	RHCP
Frequency:	1575.42MHz±1.023MHz



4G LTE Antenna

VSWR:	<3.0
Gain:	2.0dBi
Impedance:	50Ω
Polarization:	Linear
Frequency:	698~2655MHz

Cable Type:	RG174
Mounting Type 1:	Adhesive Mount
Mounting Type 2:	Magnetic Mount

*Option of Cable Length

*Option of Connector Type

*Option of Cable Waven jacket

GA48-300

GPS Antenna

VSWR:	<1.5
Gain:	5.0dBi
Impedance:	50Ω
Polarization:	RHCP
Frequency:	1575.42MHz±1.023MHz

4G LTE Antenna MAIN

VSWR:	<3.0
Gain:	2.0dBi
Impedance:	50Ω
Polarization:	Linear

Cable Type:	RG174
Mounting Type 1:	Adhesive Mount
Mounting Type 2:	Magnetic Mount

*Option of Cable Length

*Option of Connector Type

*Option of Cable Waven jacket





GA52-300

4G LTE Cellular Antenna

VSWR:	<2.0
Gain:	5.0dBi
Impedance:	50Ω
Polarization:	Linear
Frequency:	698~2700 MHz

GPS Antenna

VSWR:	<1.5
Gain:	2.0dBi
Impedance:	50Ω
Polarization:	RHCP
Frequency:	1575.42 MHz±1.023 MHz



Cable Type:	RG174
Mounting Type 1:	Adhesive Mount
Mounting Type 2:	Magnetic Mount

- *Option of Cable Length
- *Option of Connector Type
- *Option of Cable Waven jacket

GA65-300

GPS Dielectric Antenna

VSWR:	<1.5
Gain:	2.0dBi
Impedance:	50Ω
Polarization:	RHCP
Frequency:	1561.098~1575.42 MHz

GPS LNA Antenna

VSWR:	<2.0
Gain:	18+2dB
Noise Figure:	<1.5dB
Supply Voltage:	2.2~5V DC
Current Consumption:	<25mA



LTE Antenna

VSWR:	<3.0
Gain:	2.0dBi
Impedance:	50Ω
Polarization:	Linear
Frequency:	698~2690 MHz



- *Option of Cable Length
- *Option of Connector Type
- *Option of Cable Waven jacket



4A3-0151

4G LTE Antenna MAIN

VSWR: <3.0
 Gain: 2.5dBi
 Impedance: 50Ω
 Polarization: Linear
 Frequency: 698~2690 MHz

4G LTE Antenna AUX

VSWR: <3.0
 Gain: 2.0dBi
 Impedance: 50Ω
 Polarization: Linear
 Frequency: 698~2690MHz



Cable Type: RG174
 Mounting Type 1: Adhesive Mount
 Mounting Type 2: Magnetic Mount

***Option of Cable Length**

***Option of Connector Type**

***Option of Cable Woven jacket**

4A3-0160

4G LTE Antenna MAIN

VSWR: <2.0
 Gain: 3.0dBi
 Impedance: 50Ω
 Polarization: Linear
 Frequency: 698~2700 MHz

4G LTE Antenna AUX

VSWR: <2.0
 Gain: 3.0dBi
 Impedance: 50Ω
 Polarization: Linear
 Frequency: 698~2700MHz

Cable Type: RG174
 Mounting Type 1: Adhesive Mount
 Mounting Type 2: Magnetic Mount

***Option of Cable Length**
***Option of Connector Type**





4A3-0150

GSM Antenna

VSWR:	<3.0
Gain:	3.0dBi
Impedance:	50Ω
Polarization:	Linear
Frequency:	698~2690 MHz

Mechanical

Cable:	RG174
Weight:	63g
Material:	ABS
Mounting Method:	Screw
Connector:	SMA or customized



Environmental

Vibration:	10~55Hz
Relative Humidity:	Up to 95%
Environmentally Friendly:	ROHS
Operating Temperature:	-40°C~+85°C

*Option of Cable Length

*Option of Connector Type

4A3-0152

LTE Antenna

VSWR:	<3.0
Gain:	2.0dBi
Impedance:	50Ω
Polarization:	Linear
Frequency:	698~2690 MHz

Mechanical

Material:	ABS
Cable:	RG174 or others
Connector:	SMA or others
Amplification:	28±3db
Mounting Method:	Adhesive/Magnet



Environmental

Vibration:	10~55Hz
Relative Humidity:	Up to 95%
Environmentally Friendly:	ROHS
Operating Temperature:	-40°C~+85°C



*Option of Cable Length

*Option of Connector Type


4A3-0153
LTE Antenna

VSWR:	<3.0
Gain:	2.5dBi
Impedance:	50Ω
Polarization:	Linear
Frequency:	698~2690 MHz

Mechanical

Cable:	RG174
Radome Material:	ABS
Mounting Method:	Screw
Connector:	SMA/FAKRA or others


Environmental

Vibration:	10~55Hz
Relative Humidity:	Up to 95%
Environmentally Friendly:	ROHS
Operating Temperature:	-40°C~+85°C

[*Option of Cable Length](#)
[*Option of Connector Type](#)
4A3-0154
LTE Antenna

VSWR:	<2.0
Gain:	2.0dBi
Impedance:	50Ω
Polarization:	Linear
Frequency:	698~2690 MHz

Mechanical

Material:	ABS
Cable:	RG58 or others
Mounting Method:	Screw
Connector:	SMA or others


Environmental

Vibration:	10~55Hz
Relative Humidity:	Up to 95%
Environmentally Friendly:	ROHS
Operating Temperature:	-40°C~+85°C

[*Option of Cable Length](#)
[*Option of Connector Type](#)



4A3-0155
LTE Antenna

VSWR:	<3.0
Gain:	2.5dBi
Impedance:	50Ω
Polarization:	Linear
Frequency:	698~2690 MHz

Mechanical

Cable:	RG174
Radome Material:	ABS
Mounting Method:	Screw
Connector:	SMA/FAKRA or others


Environmental

Vibration:	10~55Hz
Relative Humidity:	Up to 95%
Environmentally Friendly:	ROHS
Operating Temperature:	-40°C~+85°C

***Option of Cable Length**

***Option of Connector Type**

4A3-0156
LTE Antenna

VSWR:	<2.0
Gain:	2.0dBi
Impedance:	50Ω
Polarization:	Linear
Frequency:	698~2655 MHz

Mechanical

Material:	ABS
Cable:	RG174 or others
Mounting Method:	Screw
Connector:	SMA or others


Environmental

Vibration:	10~55Hz
Relative Humidity:	Up to 95%
Environmentally Friendly:	ROHS
Operating Temperature:	-40°C~+85°C

***Option of Cable Length**

***Option of Connector Type**





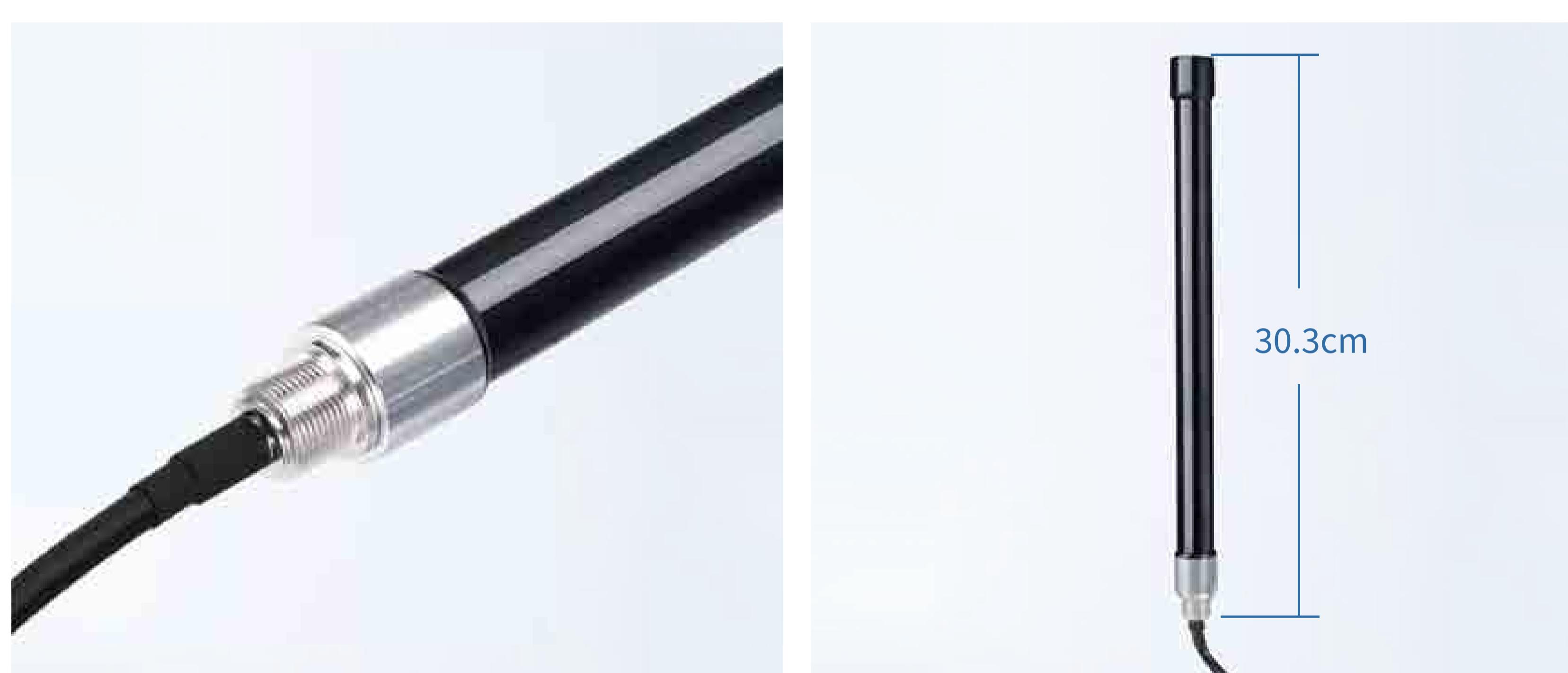
4A3-0300

Electrical Characteristics

VSWR:	≤3.0
Gain:	2.76dBi
Impedance:	50Ω
Polarization:	Linear
Frequency:	824~2700 MHz

Mechanical performance

Connector Type:	SMA
Material of Radiator:	TUBE
Radome material:	Fiberglass

**Environmental**

Operating Temperature:	-40°C~+80°C
Storage Temperature:	-40°C~+80°C

***Option of Color** ***Option of Cable Length** ***Option of Connector Type**

EA2-0287

Specifications

VSWR:	<1.5
Gain:	8.0dBi
Impedance:	50Ω
Polarization:	Vertical
Frequency:	860~930 MHz
Antenna Connector Type:	N-type Male

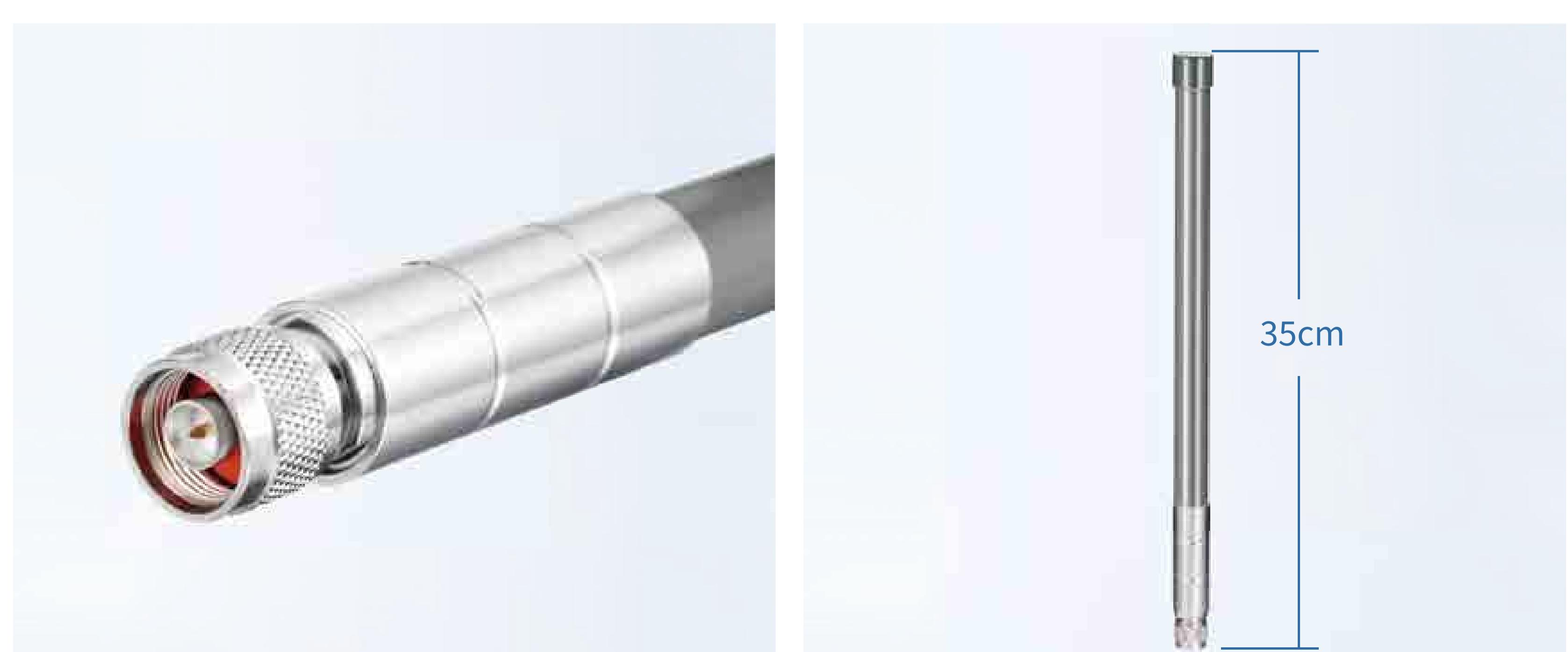
Mechanical performance

Installation method:	Pole-holding
Hoop size:	Small 17-22mm; Large 22-52mm

**Environmental**

Operating Temperature:	-20°C~+80°C
Storage Temperature:	-30°C~+85°C

***Option of Cable Color**
***Option of Connector Type**

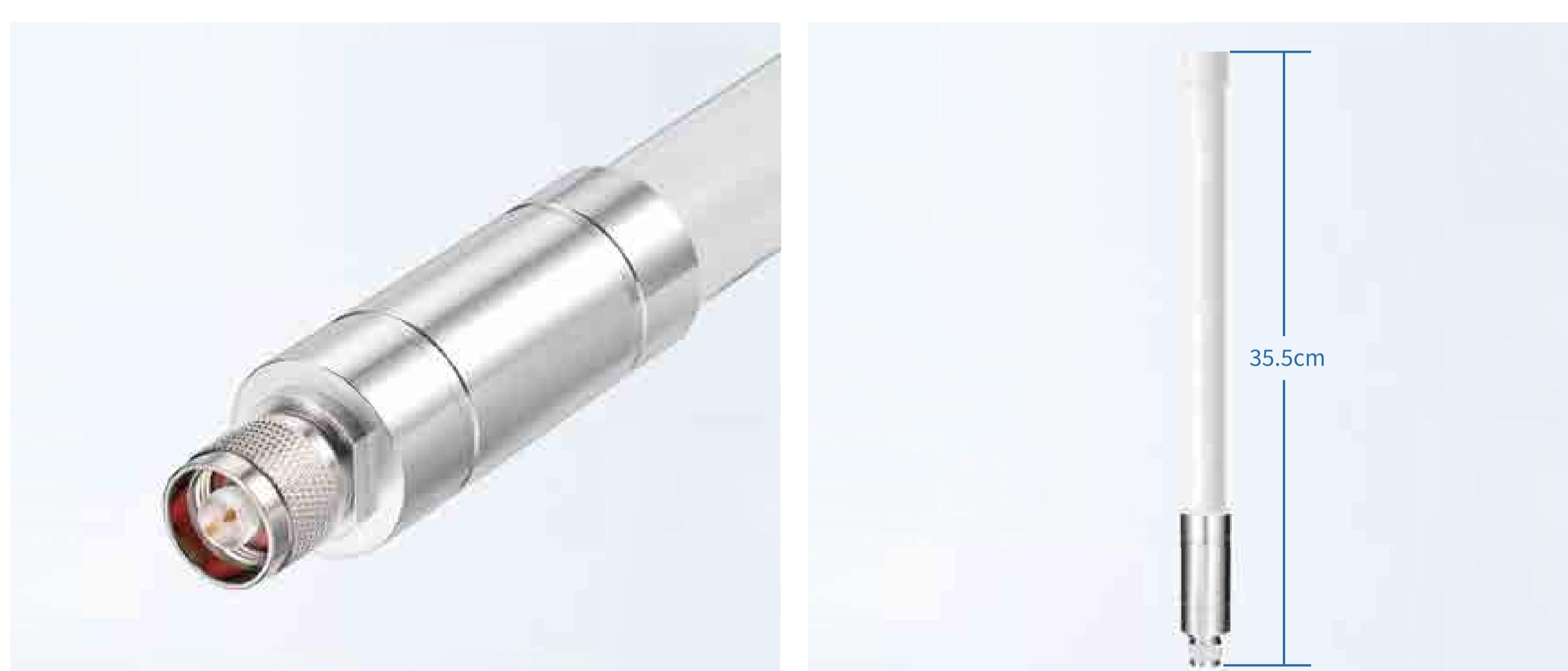




EA2-0289

Electrical Characteristics

VSWR:	≤ 2.5
Gain:	5.1~5.8dBi
Efficiency:	75%
Impedance:	50Ω
Frequency:	860~930 MHz



Mechanical performance

Length:	35.5cm
Salt Spray Test:	96H
Structure:	Fiberglass

Environmental

Operating Temperature:	-20°C~+65°C
Storage Temperature:	-30°C~+75°C

 *Option of Cable Color

 *Option of Connector Type

EA2-0292

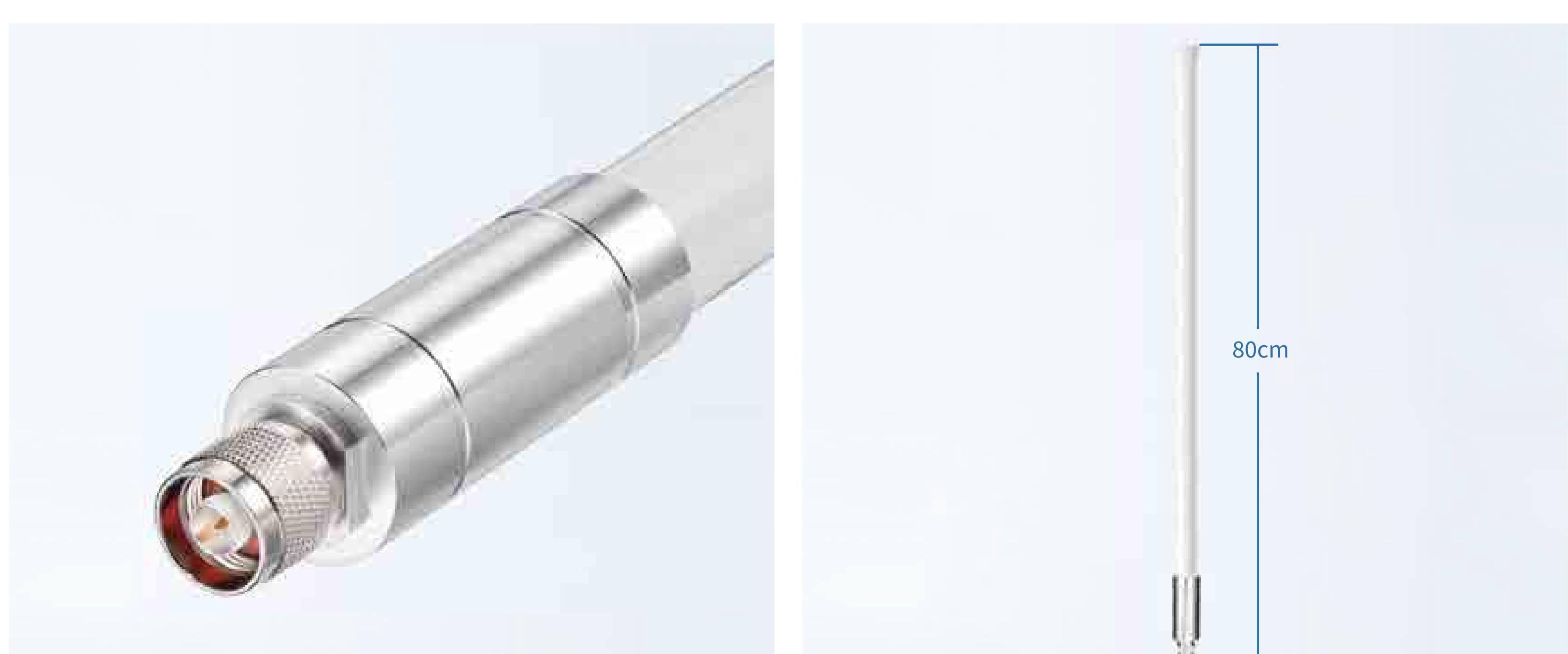
Electrical Characteristics

VSWR:	≤ 2.5
Gain:	5.1~5.8dBi
Efficiency:	75%
Impedance:	50Ω
Frequency:	860~930 MHz



Mechanical performance

Length:	80cm
Salt Spray Test:	96H
Structure:	Fiberglass



Environmental

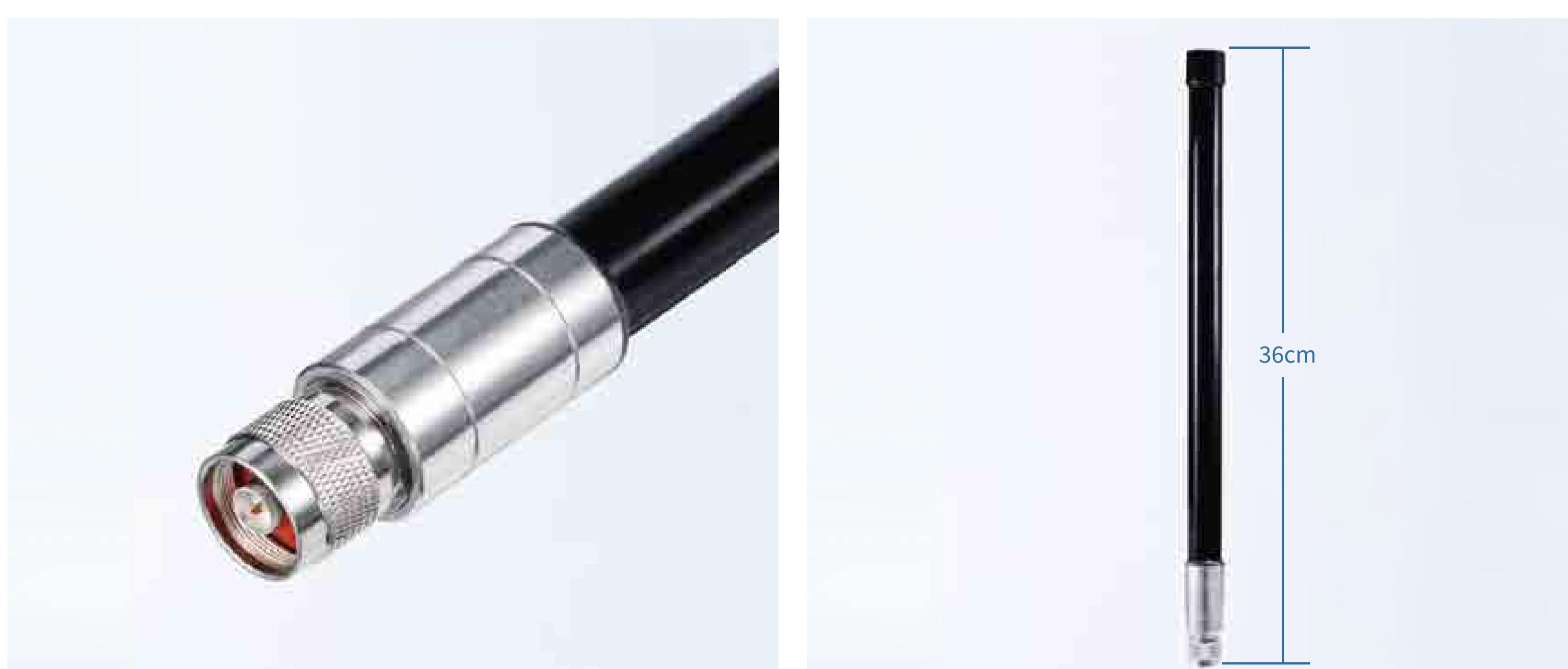
Operating Temperature:	-20°C~+65°C
Storage Temperature:	-30°C~+75°C

 *Option of Cable Color

 *Option of Connector Type


EA2-0293
Electrical Characteristics

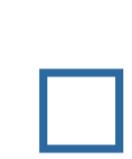
VSWR:	≤ 2.0
Gain:	3.5dBi
Impedance:	50Ω
Polarization:	Linear
Frequency:	860~915 MHz


Mechanical performance

Installation method:	Pole-holding
Hoop size:	Small 17-22mm; Large 22-52mm

Environmental

Operating Temperature:	-20°C~+80°C
Storage Temperature:	-30°C~+85°C

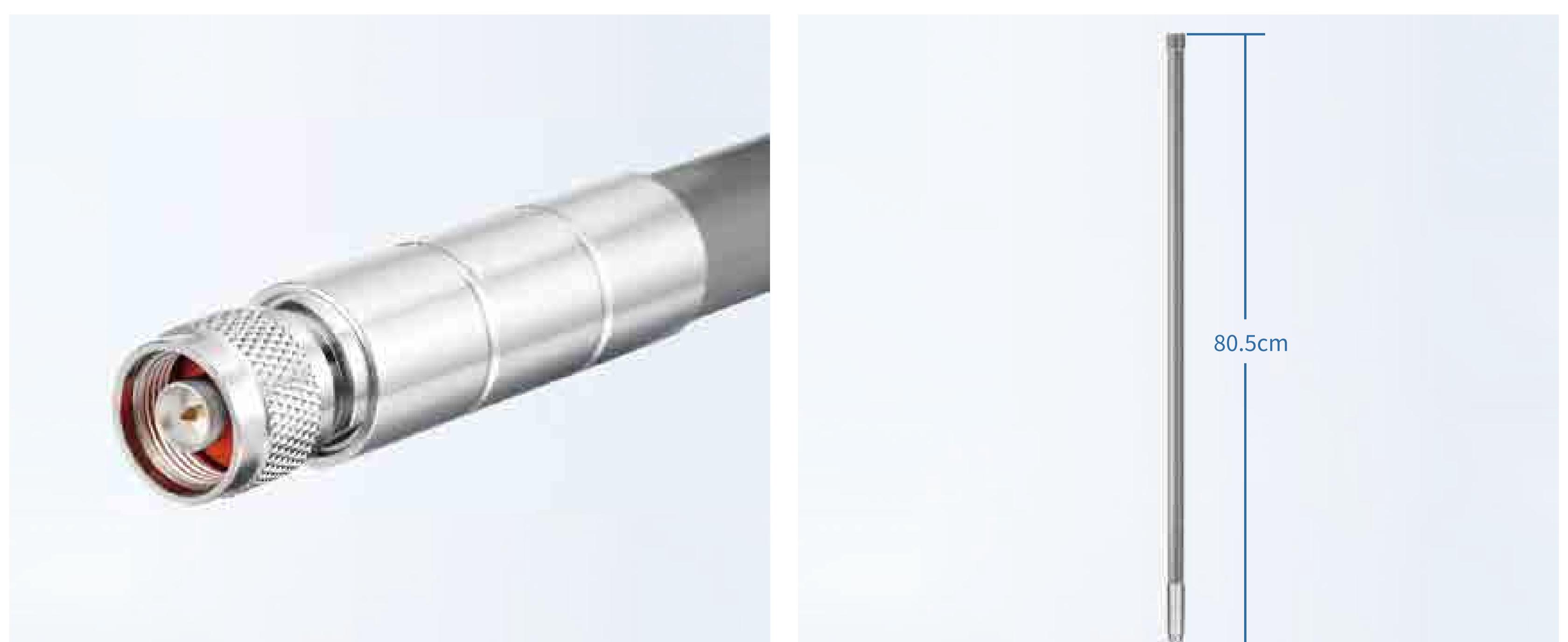
 *Option of Cable Color

 *Option of Connector Type

EA2-0310
Electrical Characteristics

VSWR:	≤ 2.5
Gain:	5.8dBi
Impedance:	50Ω
Polarization:	Vertical
Frequency:	900~930 MHz

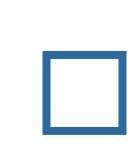

Mechanical performance

Dimension:	80.5cm
Connector:	N male
Structure:	Fiberglass


Environmental

Operating Temperature:	-20°C~+80°C
Storage Temperature:	-30°C~+85°C

 *Option of Cable Color

 *Option of Connector Type


Our other product categories

- RF Cable Assembly
- RF Connector
- RF Adapter
- RF Coaxial Cable
- SDI Cable
- Lora Antenna
- Cellular Antenna
- Audio Antenna
- Car Antenna
- Wireless Network Antenna
- GPS Antenna
- DVB-T Antenna
- Ham Radio Antenna
- Coaxial Attenuator
- Termination LODA
- Aluminum Enclosure
- Customized Product
- Customized RF Cable





Shenzhen Superbat Electronics Co., Ltd

501A, workshop 6, jianghao(Bantian)industrial plant, No.430, jihua Road, Bantian community,
Bantian street, Longgang District, Shenzhen City.