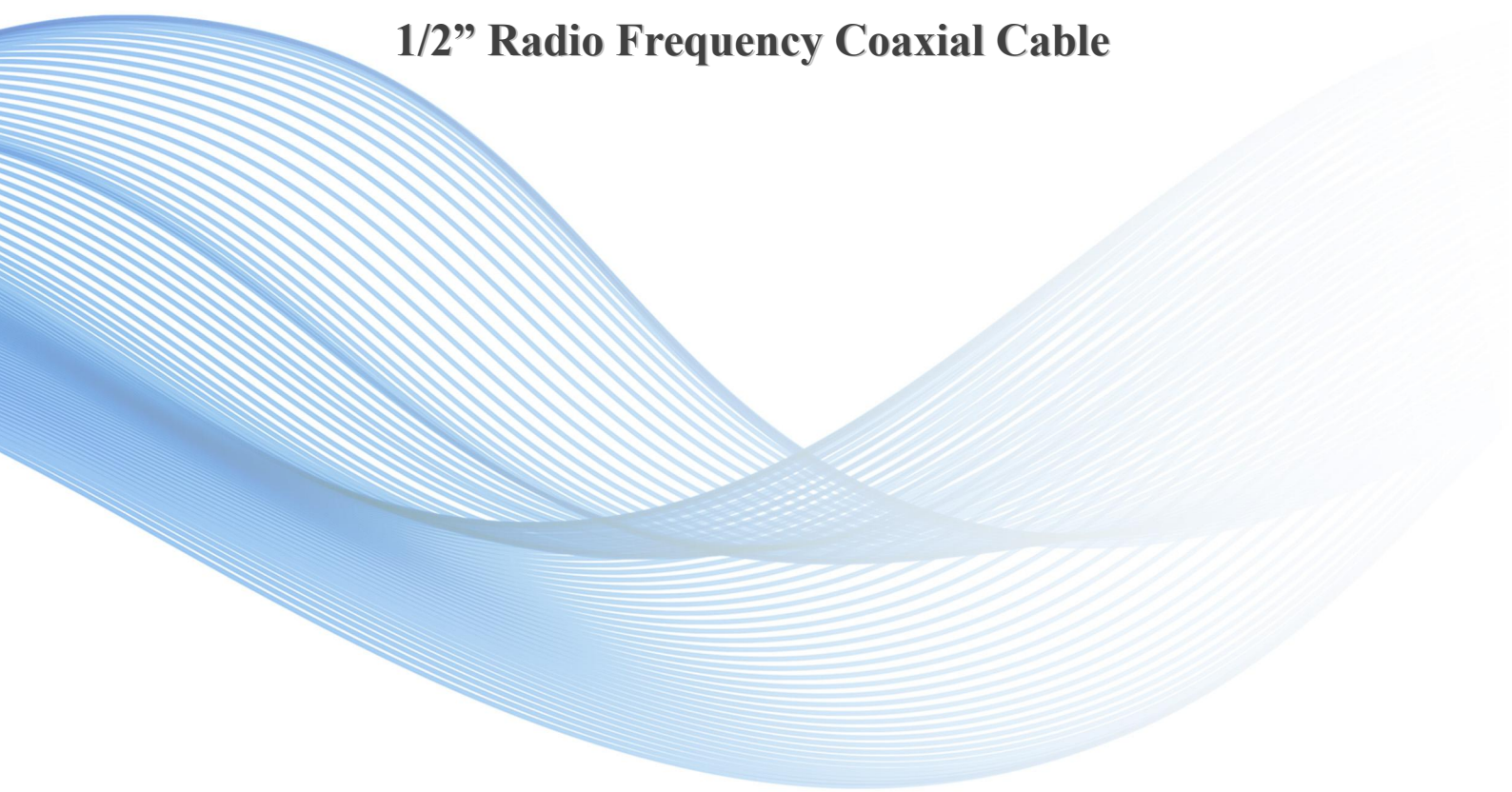


TECHNICAL SPECIFICATION

1/2" Radio Frequency Coaxial Cable



A	March 1, 2023	Louise	Mr.Xu	Hugo
Version	Date	Prepared	Reviewed	Approved

1. GENERAL

1.1 Scope

This specification covers the general requirements and performance of radio frequency coaxial cable provided by Jiangsu Zhongtian Technology Co., Ltd. (hereafter called ZTT for short).

1.2 Cable Description

HCAAY-50-12-1, China ZTT coaxial cable, 50 ohm, 1/2", corrugated outer copper conductor, black PE jacket.

1.3 Quality

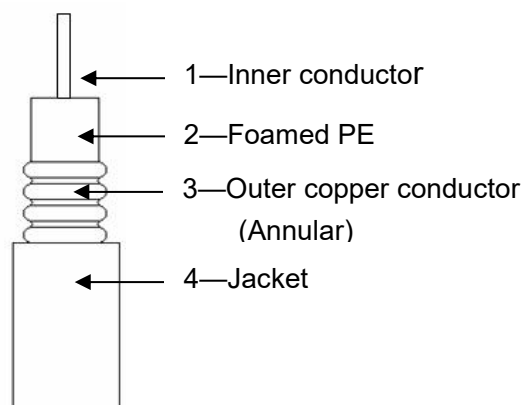
Excellent quality control is achieved through intense in-house quality check and stringent audit acceptance by ISO 9001.

1.4 Reliability

ZTT ensures product reliability through rigorous qualification testing of each product family. Both initial and periodic qualification testing are performed to assure the cable's performance and durability in the field environments.

2. CABLE STRUCTURE

2.1 Cable Type: HCAAY-50-12-1



2.2 Construction

Item	Diameter(mm)	Material
Inner conductor	4.80	Copper clad aluminum wire
Insulation	11.90	Foamed polyethylene
Outer copper conductor	13.80	Annular corrugated copper tube
Jacket	15.80	Polyethylene

2.3 Characteristics

Item	Specification	
Min. bending radius	70mm(Single bend)	
Min. bending radius	127mm(Repeated 15 times)	
Tensile Strength	1100 N	
Installation temperature	0~+55°C	
Operating temperature	0~+55°C	
Characteristics impedance	50±1Ω	
Velocity	88%	
Min. insulation resistance	10000 MΩ·km @DC 500V ,1 minute	
Capacitance	76 pF/m	
Inductance	0.19μH / m	
Maximum operating frequency	8 GHz	
Peak Power Rating	38 kw	
Jacket Spark Test Voltage	8000 V	
Dielectric strength	DC 6000V 1 minute	
DC-Resistance	Internal Conduct	1.57 Ω/km
	Outer Conductor	2.7 Ω/km
VSWR typical value		1.1 @820~960MHz
		1.1 @1710~2180MHz
		1.1 @2500~2690MHz

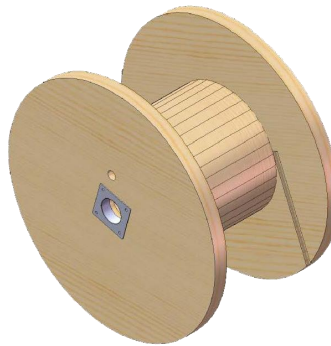
2.4 Attenuation(Nominal Value)

Frequency(MHz)	Attenuation(dB/100m)
900	7.15
1800	10.41
2200	11.66
2700	13.1

3. PACKING INFORMATION

ZTT highly foamed polyethylene dielectric coaxial cables are coiled on wooden reels which are not returnable and protected by strong wooden batten. The end of cable will be sealed with heat shrinkable end cap to prevent ingress of water

Weight: 200 kg/km



Note: The drum size & cable weight as above is estimated and final size & weight shall be confirmed before shipment.