

TECHNICAL SPECIFICATION

1/2”S Radio Frequency Coaxial Cable

A	January 13, 2025	MoMo	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

HRCAYZ-50-9, China ZTT coaxial cable, 50 ohm, super-flexible 1/2", corrugated outer copper conductor, low smoke zero halogen (LSZH) flame-retardant polyolefin 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.

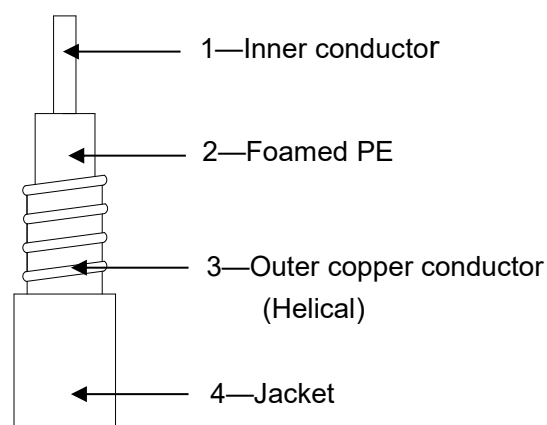
1.5 Reference

The cables which ZTT offered are designed, manufactured and tested reference to international standards as follows:

YD/T 1092-2013	Foamed Polyethylene Dielectric, Corrugated Copper-tube Outer Conductor, 50 ohm Radio Frequency Coaxial Cable for Wireless Communication.
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2. CABLE STRUCTURE

2.1 Cable Type: HRCAYZ-50-9



2.2 Construction of Cable

Item	Diameter(mm)	Material
Inner conductor	3.60±0.05	Copper clad aluminum wire
Insulation	9.20±0.20	Foamed polyethylene
Outer copper conductor	12.00±0.25	Helical corrugated copper tube
Jacket	13.30±0.20	LSZH polyolefin

2.3 Characteristics

Item	Specification
Min. bending radius	30mm(Single bend)
Min. bending radius	55mm(Repeated 15 times)
Lay environment temperature	-40~+55℃
Characteristics impedance	50±2Ω
Velocity	81%
Min. insulation resistance	10000 MΩ·km @DC 500V ,1 minute
Capacitance	83 pF/m
Dielectric strength	DC 2500V 1 minute
Max. operation frequency	8GHz

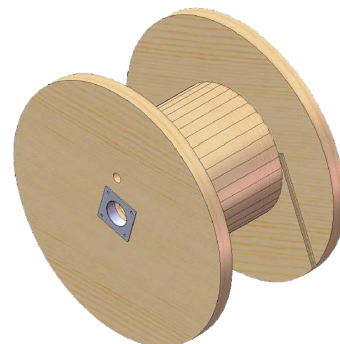
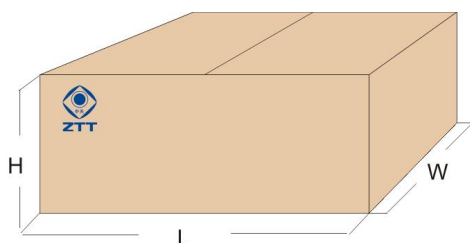
2.4 Attenuation (Nominal Value)

FREQUENCY(MHz)	ATTENUATION(dB/100m)
900	10.34
2100	16.50
2600	18.20
2700	18.60
3000	20.16
3300	23.00
3400	23.80
3500	24.30
3600	25.00
3700	25.60
3800	26.40
4000	28.00
5000	30.00
6000	33.00
7000	36.00
8000	40.00

Note: The tolerance of Attenuation shall be $\pm 5\%$.

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



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