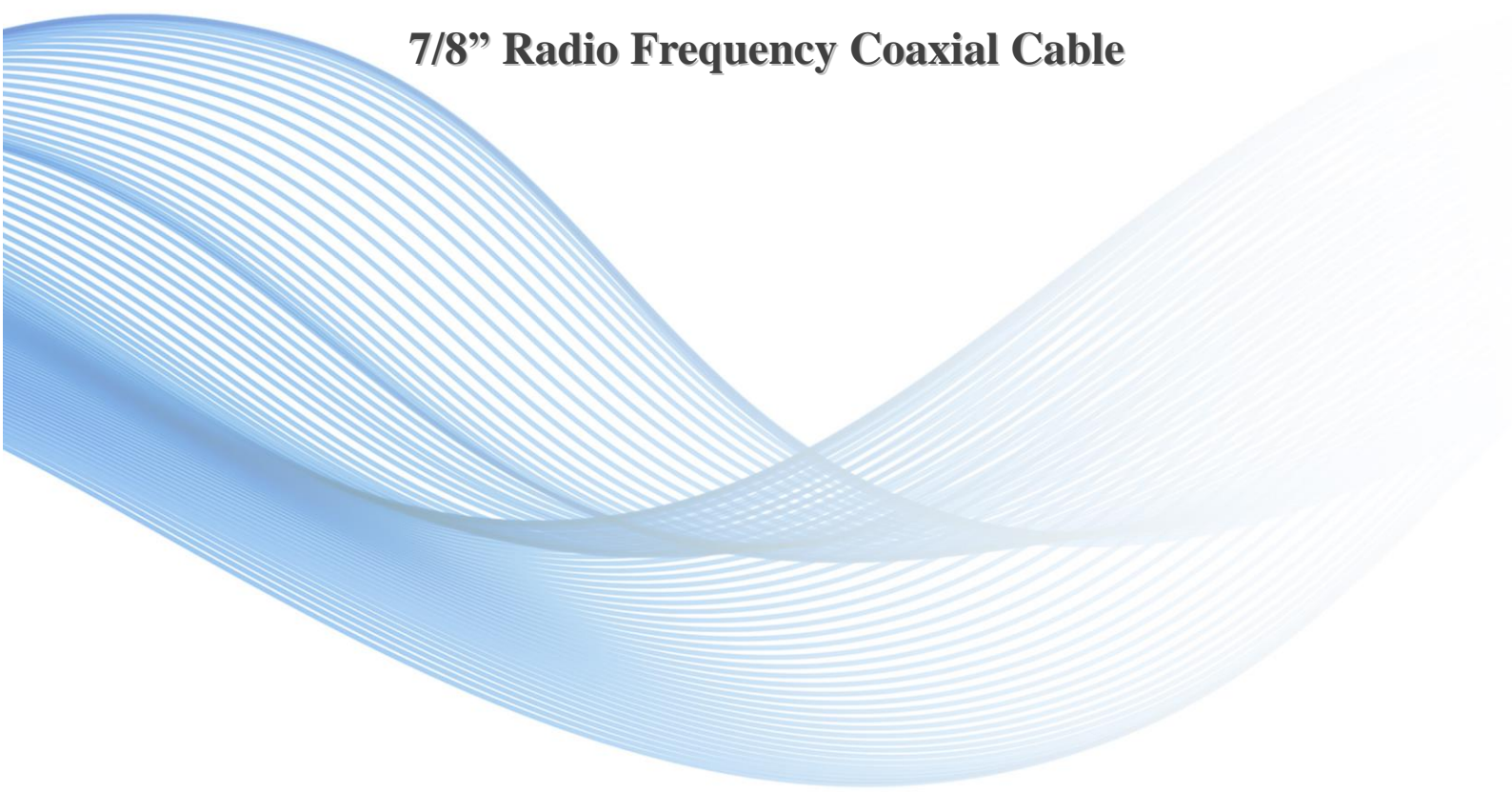


TECHNICAL SPECIFICATION

7/8” Radio Frequency Coaxial Cable



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

HCTAYZ-50-22, China ZTT coaxial cable, 50 ohm, 7/8", corrugated outer copper conductor, low smoke zero halogen (LSZH) flame-retardant polyolefin jacket.

1.3 Quality

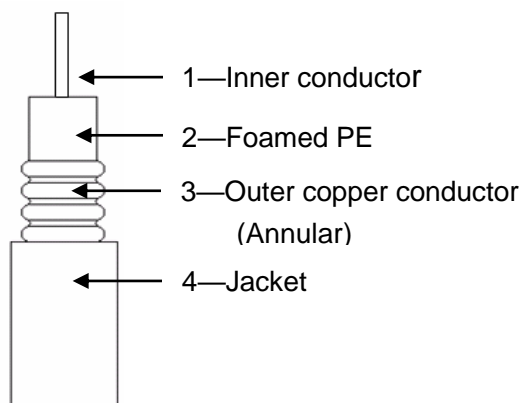
Excellent quality control is achieved through intense in-house quality check and stringent audit acceptance by ISO 9001.

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.

2. CABLE STRUCTURE

2.1 Cable Type: HCTAYZ-50-22



2.2 Construction of Cable

Item	Diameter(mm)	Material
Inner conductor	9.00±0.10	Copper tube
Insulation	22.20±0.20	Foamed polyethylene
Outer copper conductor	24.90±0.30	Annular corrugated copper tube
Jacket	27.50±0.20	LSZH polyolefin

2.3 Characteristics

Item	Specification
Min. bending radius	120mm(Single bend)
Min. bending radius	250mm(Repeated 15 times)
Lay environment temperature	-40~+50℃
Characteristics impedance	50±2Ω
Velocity	88%
Min. insulation resistance	10000 MΩ·km @DC 500V ,1 minute
Capacitance	76 pF/m
Dielectric strength	DC 10000V 1 minute
VSWR typical value	≤1.20@820~960MHz
	≤1.20@1710~2500MHz

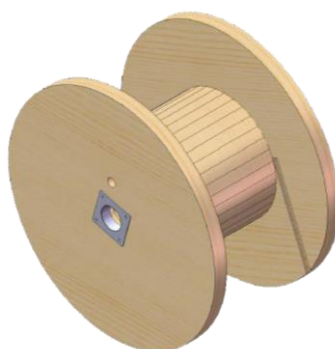
2.4 Attenuation (Nominal Value)

Frequency (MHz)	Attenuation(dB/100m)
900MHz	3.81
1800MHz	5.70
2000MHz	6.08
2200MHz	6.43
2400MHz	6.77
2500MHz	6.94
2700MHz	7.26
3000MHz	7.74
3300MHz	8.22
3400MHz	8.37
3500MHz	8.52
3600MHz	8.67
3700MHz	8.81
3800MHz	8.95
4800MHz	10.48
4900MHz	10.64
5000MHz	10.73

Note: The tolerance of Attenuation shall be $\pm 10\%$.

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



SIZE	TYPE	LENGTH(m)	DRUM TYPE
7/8"	HCTAYZ-50-22	500	Bakelite wooden drum

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