Spec No.: ZTT 23-XJ31512-1



# **TECHNICAL SPECIFICATION**

# 1/2"S Jumper Cable Α November 2, 2023 Louise Mr.Gu Hugo Version Prepared Reviewed Approved Date

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# 1. GENERAL

# 1.1 Scope

This specification covers the general requirements and performance of jumper cables provided by JiangSu Zhongtian Technology Co., Ltd. (hereafter called ZTT for short).

# 1.2 Cable Description

ZTT jumper cables have the following advantages: low VSWR, excellent flexibility, easy attachment and waterproof.

# 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 according to international

standards as follows:

RoHS 2011/65/EU	It standardizes the materials and process standards of electronic and electrical products, so
	as to make it more conducive to human health and environmental protection.
	ISO9001 international quality management system standard is a set of management systems and standards
ISO 14001:2015	International standard focus on environmental management



# 2. CABLE STRUCTURE

# 2.1 Cable Type:

Cable type	Product Code
1/2" S jumper , 4.3-10 Male - 4.3-10 Male, 6m	4310M-4310M-9*6
1/2" S jumper , 4.3-10 Male - 4.3-10 Male, 10m	4310M-4310M-9*10

#### **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	13.60±0.50	PE

# 2.3 Mechanical and electrical performance

Characters		Spec	ification
jumper Length (m) , tolerance (%)		6m or 10m, tolerance≤ 1%	
Connector type		4.3-10 Male	
inner conductor material		Copper Wire or Copper Clad Aluminum Wire	
Jacket		Jacket: PE	
Dielectric		Foam PE	
Outer Conductor material		(Helical or Corrugated) Copper Tube	
т	1 /	Halogen free/No Halogen/Zero	
Jacket		Halogen (comply IEC 60754- 1:2011 or EN 60754-2)	
Jacket Diameter (mm)		13.6±0.5	
IP Protection Class		IP68	
Impedance ( $\Omega$ )		50±2	
Insulation Re	sistance (MΩ)	≥ 5000	
Mini	mum	single	≤ 25
bending ra	adius (mm)	multiple	≤ <b>3</b> 5
		< 2.2Ghz	≤ 1.1
VS	WR	2.2Ghz ~ 2.7Ghz	≤ 1.15
		$2.7Ghz \sim 3.8Ghz$	≤ 1.18
Insertion Loss	jumper 6m (dB)	900/1800/2600Mhz	≤ 0.75/1.05/1.40
(dB)	jumper 10m (dB)	900/1800/2600Mhz	≤ 1. 18/1.67/2.27
Max operating I	Frequency (GHz)	≥ 8.8	
Weight	t (kg/m)	≤ 0.23	
Max Volt	tage (kW)	≥16	
voltage between inner and outer		≥ 2500	
conductor (V)			
Operation Ter	mperature (°C)	-40 ÷ 85	

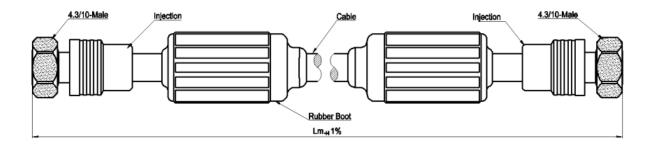


Dynamic PIM comply IEC	< 1(2)		
62037 (dBc):	≤-162		
Center contact	Brass or Bronze Silver Plated		
Connector insertion loss (dB)	≤0.05*√f (GHz)		

#### 2.4 Waterproof specifications

Characters	Specification
Weatherproofing Material	Silicon
UV Resistance Standard	IEC 60068-2-5
Operation Temperature range (°C)	-40 ÷ 85
Weatherproofing Level	IP68
Safety Standard	RoHS 2011/65/EU

# 3. DESIGN DRAWINGS



# 4. PACKING INFORMATION

ZTT jumper cables are packed in carton, and the connectors are assembled at the end of the cable. During transportation, available transportation tool should be handled carefully to avoid damaging the package. **Design:** 

