Spec No.: ZTT 23-XJ24773



# **TECHNICAL SPECIFICATION**

## ZTT RFJ 12-7/16 DIN-7/16 DIN-XXXX

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## 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 9001:2015, ISO 14001:2015, RoHS 2011/65/EU.

### 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. PRODUCT SPECIFICATIONS

#### **2.1 Technical Specifications**

Characteristics		Specification	
Operating	Frequency (GHz)	0-2.7	
		Connector A: Type: 7/16 DIN	
		Connector B: Type: 7/16 DIN	
Туре	of Connector	Interface: Male	
		Body style: Straight	
Impedance type ( $\Omega$ )		50	
Return loss (dB)	890MHz – 960MHz	$\geq 28$	
	1710MHz – 1880MHz	$\geq 28$	
	1920MHz – 2170MHz	≥28	
	2170MHz - 2700Mhz	≥26	
Operating temperature range (°C)		-50 ~85	
Cer	nter contact	Bronze/Brass, Silver plated	
PIM (2x	43dBm, carriers)	≤ -155 dBc	
Γ	Dielectric	Polyethylene Foam	
	Materials	Polyethylene (PE)	
Jacket	Halogen Free (IEC 60754 or EN 60754-2)	Yes	
	Jacket Diameter (mm)	$15.8 \pm 2\%$	
	890MHz – 960MHz	≤ 0.0713	
	1710MHz – 1880MHz	≤ 0.107	
Insertion loss (dB/m).	1920MHz – 2170MHz	≤ 0.113	
	2170MHz - 2700Mhz	≤ 0.127	
Connector Attenuation (dB/pcs)	0-2700MHz	≤0.05*√f (GHz)	
Relative propagation velocity		≥87%	
Minimum bend	ling radius, single(mm)	≤ 70	
Minimum bendin	g radius, repeated (mm)	≤ 130	
Cable length	without connector(m)	customized according to customer's need	
	Materials	Copper-Clad Aluminum Wire	
	Style	Smooth solid tube	
Inner Conductor	Diameter (mm)	4.80	
	DC-resistance	≤1.57 Ohms/km	
	Materials	Corrugated copper	
	Style	SIN wave	
Outer Conductor	Diameter (mm)	13.8	
	DC-resistance	≤2.7 Ohms/km	
Weight, ap	proximately(kg/m)	$\geq 0.2$	
0 1	ensile force(N)	≥ 1050	



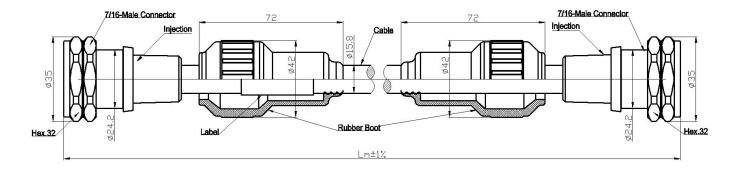
## 2.2 Weatherproof for Jumper Specifications

Characteristics	Specification			
Weatherproof boot assemble with the jumper				
Weatherproofing Material	Silicone			
UV Resistance UV Resistance Test Method ASTM G154 or better	1000 hours			
Operating Temperature	-40 °C to +85 °C			
Storage Temperature	-55 °C to +85 °C			
IP68	IP68			

### 2.3 Connectors for Jumper Specifications

Characteristics	Specification	
Insertion Loss, typical	≤0.05*√f (GHz)	
Weight	Connector DIN 7/16 $\geq$ 86 g	

## **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:** 

