Spec No.: ZTT 23-XJ24773



TECHNICAL SPECIFICATION

ZTT RFJ 12-7/16 DIN-4.3/10-XXXX

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|---------|----------------|----------|----------|----------|
| Version | Date | Prepared | Reviewed | Approved |
| | | | | |

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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

| Cha | racteristics | Specification | |
|----------------------------------|---|---|--|
| Operating | Frequency (GHz) | 0-2.7 | |
| | | Connector A: Type: 7/16 DIN | |
| Trues | of Compostor | Connector B: Type: 4.3/10 | |
| Туре | of Connector | Interface: Male | |
| | | Body style: Straight | |
| Imped | ance type (Ω) | 50 | |
| D (1 (ID) | 890MHz – 960MHz | ≥28 | |
| | 1710MHz – 1880MHz | ≥28 | |
| Return loss (dB) | 1920MHz – 2170MHz | ≥28 | |
| | 2170MHz - 2700Mhz | ≥26 | |
| Operating temperature range (°C) | | -50 ~85 | |
| | nter contact | Bronze/Brass, Silver plated | |
| PIM | (2x43dBm) | ≤ -155 dBc | |
| | 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/pc) | 0-2700MHz | ≤0.05*√f (GHz) | |
| Relative pr | opagation velocity | ≥87% | |
| Minimum bend | ling radius, single(mm) | ≤ 70 | |
| Minimum bending | g radius, repeated (mm) | ≤ 130 | |
| Cable length v | 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) | ≥ 0.2 | |
| Max. te | ensile force(N) | ≥ 1050 | |



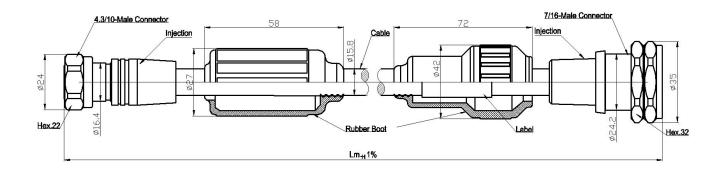
2.2 Weatherproof for Jumper Specifications

| 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 | $\leq 0.05*\sqrt{f}$ (GHz) | |
| Weight | Connector DIN 7/16 \geq 86 g Connector 4.3-10 \geq 27 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:**

