广东关西科技有限公司

GUANGDONG KANSAI TECHNOLOGYLTD.

卓 越 品 质

专 注 细 节

目 录

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About Us

KANSAI TECHNOLOGY specializes in high-temperature resistant radio frequency coaxial cables, integrating independent R&D, production, and sales. With over 20 years of manufacturing experience, the company focuses on the R&D and production of RF coaxial cables.

“Widely used for high-frequency signal transmission in equipment”

- Mobile Comms
- Aerospace
- Microwave Comms
- Radar
- Satellite
- Rail Transit
- Medical & Healthcare
- Mobile Phone

2001
Date of Establishment

27400 ㎡
Total Factory Area

2000 ㎡
Clean Room

Total Investment:
120 Million RMB

地址：惠州仲恺高新区石泉岭路5号
Address: 5 Shiquanling Road, Zhongkai High-Tech District, Huizhou City, Guangdong, China
TEL: (86-755) 25628555 URL: http://www.kansaicable.com.cn/ E-mail: kansai@kansaicable.com.cn

About Us

All coaxial cables and cable assemblies of different specifications can be customized according to your requirements.

Our company highly prioritizes product environmental protection and regulatory compliance.

REACH and RoHS reports are available upon request to ensure full compliance with applicable standards.

Certified to GB/T 19001-2016 / ISO 9001:2015.

Certified to GB/T 24001-2016 / ISO 14001:2015.

Certified to GB/T 45001-2020 / ISO 45001:2018.

Our product range covers 7 main categories, including but not limited to:

- KTR SEMI-FLEXIBLE COAX CABLE
- KTG SEMI-RIGID COAX CABLE
- RG COAX CABLE
- KT HIGH PRECISION COAX CABLE
- KTMR LOW-LOSS COAX CABLE
- HIGH TEMPERATURE ELECTRONIC WIRE
- HIGH PERFORMANCE CERAMIC-FILLED PTFE HIGH-FREQUENCY & HIGH-SPEED CCL

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Environmental Management System Certification

Occupational Health and Safety Management System Certificate

Quality Management System Certification Certificate

U-Shaped Fixing Structure for High-Frequency Data Transmission Coaxial Cables

Lotus-Core Coaxial Cable & Its Manufacturing Method

Mold for Manufacturing Lotus-Core Coaxial Cable

A Novel PTFE Pre-Forming Process

Cable Material Pre-Forming Device

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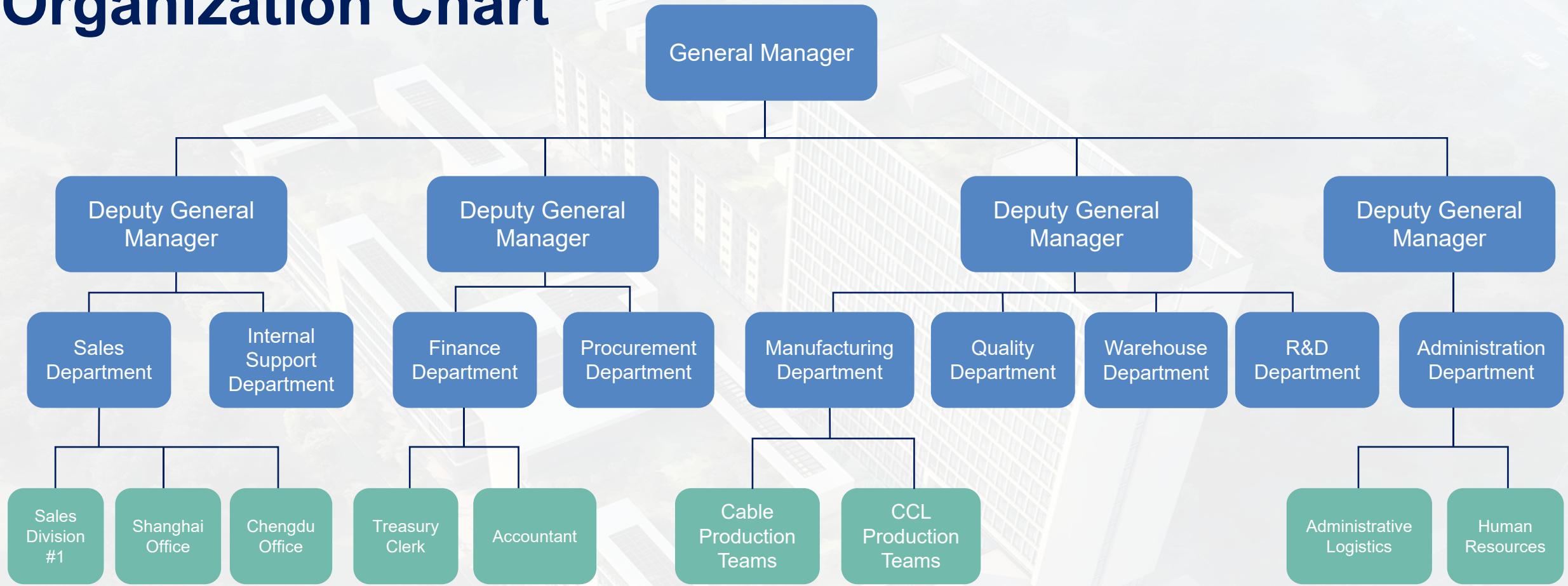
Organization Chart



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An Automatic Cable Spooling Device with Wire-Arranging Rotation Function

A Forming Mold for Nine-Hole Lotus-Root-Shaped PTFE Low-Loss Coaxial Cable

A Nine-Hole Lotus-Root-Shaped PTFE Low-Loss Coaxial Cable

An Anti-Eccentricity Device for PTFE Pre-Forming

A Semi-Rigid RF Coaxial Cable

A High-Precision Coaxial Cable

A Low-Loss Semi-Flexible Coaxial Cable

A High-Precision Low-Loss Amplitude-Stable Phase-Stable RF Coaxial Cable

- An Automatic Wire Cutting Machine
- A Wire Spooling Machine
- A Flat High-Frequency Data Transmission Coaxial Cable with Simple Fixing Function
- A Shielded Coaxial Cable for High-Frequency Data Transmission
- A Figure-Eight Coaxial Cable for High-Frequency Data Transmission
- An Oversized Outer Diameter Repair and Shaving Equipment for Semi-Flexible Coaxial Cable
- A Figure-Eight Connecting Terminal for High-Frequency Data Transmission Coaxial Cables
- A High-Frequency Data Transmission Coaxial Cable with Status Display Function
- A U-Shaped Coaxial Cable for High-Frequency Data Transmission

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Factory Production Capacity: 141cable: 100KM/day; 250cable: 30KM/day; Wire stripping processing: 60,000 pieces/day
Foam-PE cable: 10,000KM/year; Low-Loss Phase Stable cable: 100KM/year; Semi-Rigid cable: 150KM/year; RG series cable: 1,500KM/year

Extrusion Workshop

Braiding Workshop

Jacketing & Low-Loss Phase Stable Workshop

Cable Stripping Workshop

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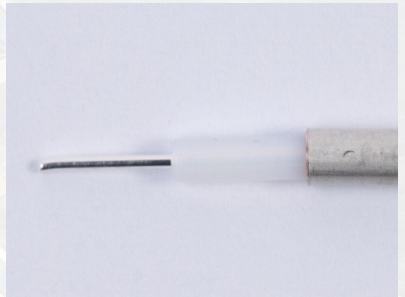
卓越品质 专注细节
Excellent Quality, Focus on Details

KTG SEMI-RIGID COAX CABLE

KTG SEMI-RIGID SERIES

KTG-034-50, Bare Copper

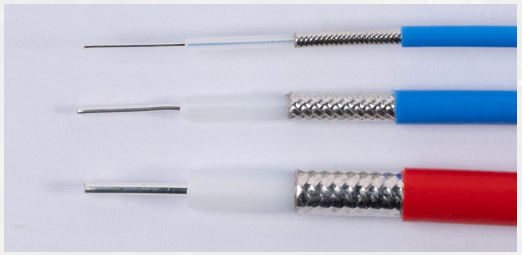
KTG-047-50,
Ternary Alloy Plated



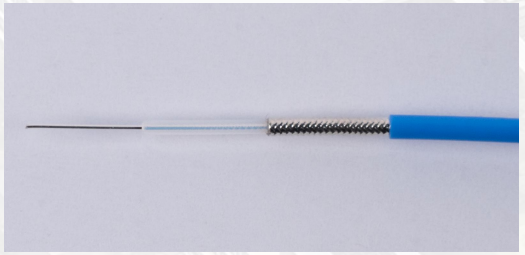
KTG-086-50, Tin-Plated

KTG-141-50,
Ternary Alloy Plated

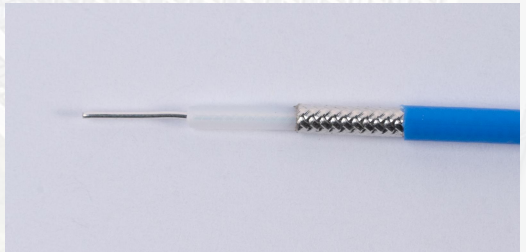
KTR SEMI-FLEXIBLE COAX CABLE



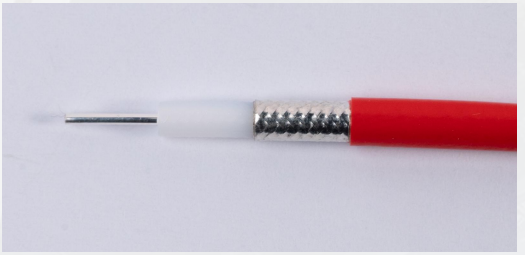
KTG SEMI-FLEXIBLE SERIES



KTRFBU-047-50



KTRFBU-086-50



KTRFR-141-50

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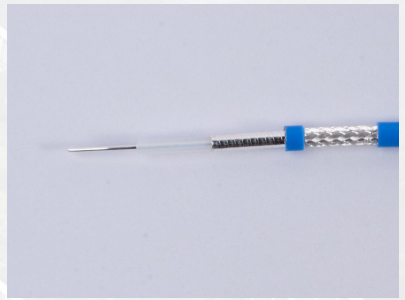
KTMR LOW-LOSS COAX CABLE

KTMR Series

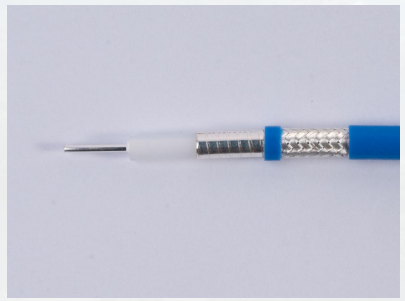
KTMR-195-50 PE/PVC

KTMR-240-50 PE/PVC

KT HIGH-PRECISION COAX CABLE

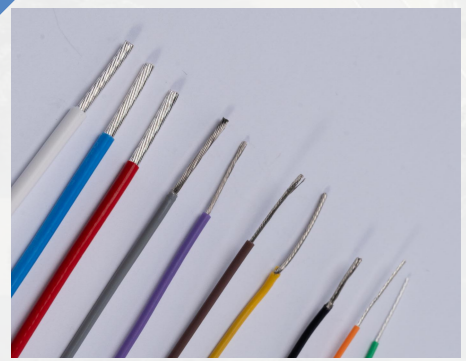


KTMICRO-086-50 FEP/PFA



KTMICRO-141-50 FEP/PFA

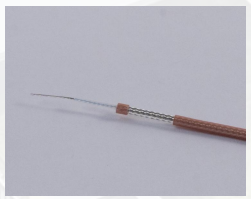
HIGH TEMPERATURE ELECTRONIC WIRE



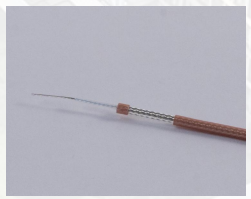
HIGH TEMPERATURE ELECTRONIC WIRE

RG COAX CABLE

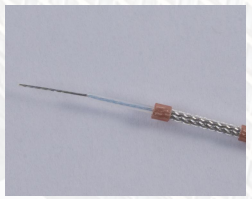
RG142-50DB



RG178-50 FEP

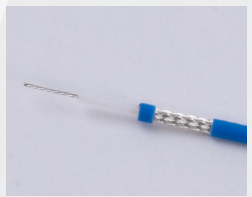


RG178-50FEP

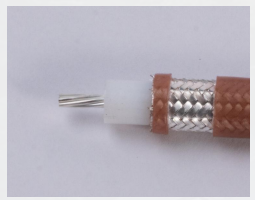


RG178-50FEP

RG223-50DB



RG316-50FEP



RG393-50DB FEP

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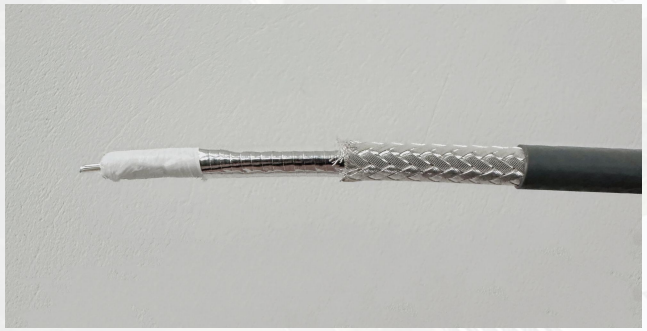
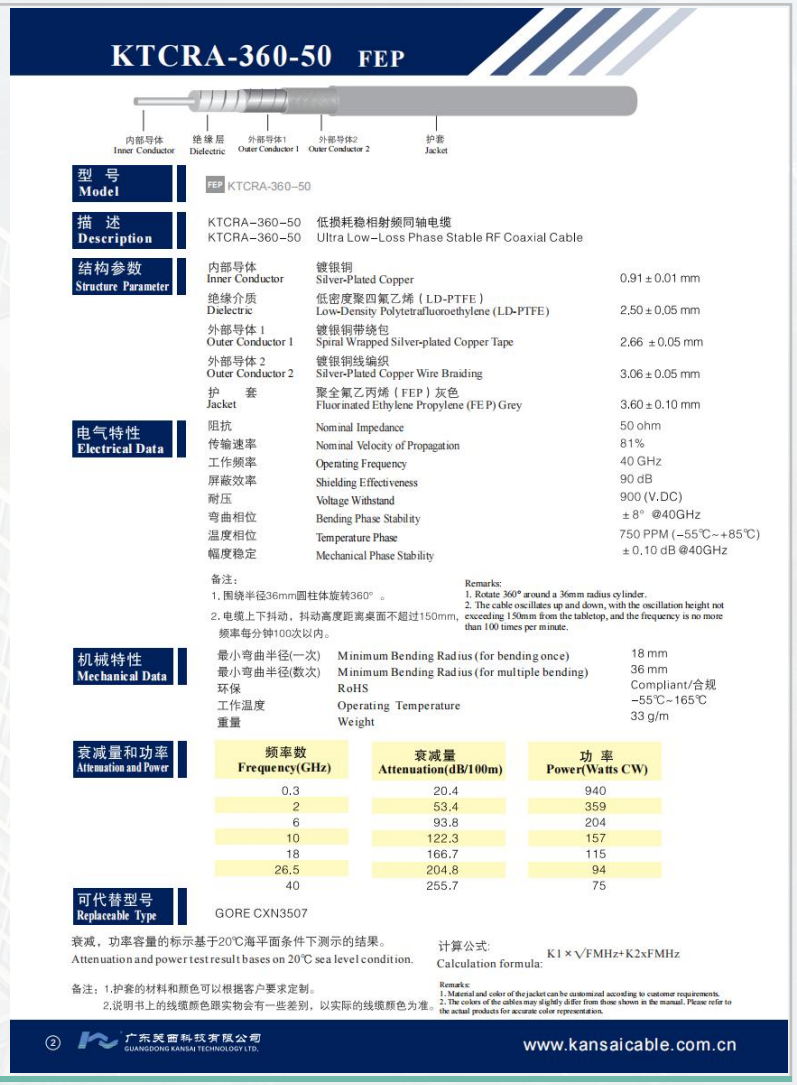
KTCRA HIGH PERFORMANCE RF COAXIAL CABLE
ULTRA LOW-LOSS PHASE STABLE SERIES



KTCRA-220-50 FEP GREY (GORE CXN3506)
KTCRA-360-50 FEP GREY (GORE CXN3507)

KTCRA-480-50 FEP GREY (GORE CXN3449)
KTCRA-500-50 FEP GREY
KTCRA-550-50 FEP GREY



KTCRA-360-50 FEP

型号 Model: FEP KTCRA-360-50

描述 Description: KTCRA-360-50 低损耗稳相射频同轴电缆 / KTCRA-360-50 Ultra Low-Loss Phase Stable RF Coaxial Cable

结构参数 Structure Parameter

内部导体 Inner Conductor	镀银铜 Silver-Plated Copper	0.91±0.01 mm
绝缘介质 Dielectric	低密度聚四氟乙烯（LD-PTFE） Low-Density Polytetrafluoroethylene (LD-PTFE)	2.50±0.05 mm
外部导体 1 Outer Conductor 1	镀银铜带绕包 Spiral Wrapped Silver-plated Copper Tape	2.66 ±0.05 mm
外部导体 2 Outer Conductor 2	镀银铜线编织 Silver-Plated Copper Wire Braiding	3.06±0.05 mm
护套 Jacket	聚全氟乙丙烯（FEP）灰色 Fluorinated Ethylene Propylene (FEP) Grey	3.60±0.10 mm

电气特性 Electrical Data

阻抗	Nominal Impedance	50 ohm
传输速率	Nominal Velocity of Propagation	81%
工作频率	Operating Frequency	40 GHz
屏蔽效率	Shielding Effectiveness	90 dB
耐压	Voltage Withstand	900 (V.DC)
弯曲相位	Bending Phase Stability	±8° @40GHz
温度相位	Temperature Phase	750 PPM (-55℃~+85℃)
幅度稳定	Mechanical Phase Stability	±0.10 dB @40GHz

备注：
1. 围绕半径36mm圆柱体旋转360°。
2. 电缆上下抖动，抖动高度距离桌面不超过150mm，频率每分钟100次以内。

Remarks:
1. Rotate 360° around a 36mm radius cylinder.
2. The cable oscillates up and down, with the oscillation height not exceeding 150mm from the tabletop, and the frequency is no more than 100 times per minute.

机械特性 Mechanical Data

最小弯曲半径(一次)	Minimum Bending Radius (for bending once)	18 mm
最小弯曲半径(数次)	Minimum Bending Radius (for multiple bending)	36 mm
环保	RoHS	Compliant/合规
工作温度	Operating Temperature	-55℃~165℃
重量	Weight	33 g/m

衰减量和功率 Attenuation and Power

频率数 Frequency(GHz)	衰减量 Attenuation(dB/100m)	功率 Power(Watts CW)
0.3	20.4	940
2	53.4	359
6	93.8	204
10	122.3	157
18	166.7	115
26.5	204.8	94
40	255.7	75

可代替型号 Replaceable Type: GORE CXN3507

衰减，功率容量的标示基于20℃海平面条件下测示的结果。
Attenuation and power test result bases on 20℃ sea level condition.

计算公式: Calculation formula: $K1\times\sqrt{FMHz}+K2xFMHz$

备注：1.护套的材料和颜色可以根据客户要求定制。
2.说明书上的线缆颜色跟实物会有一些差别，以实际的线缆颜色为准。

Remarks:
1. Material and color of the jacket can be customized according to customer requirements.
2. The colors of the cables may slightly differ from those shown in the manual. Please refer to the actual products for accurate color representation.

② 广东美亩科技有限公司 GUANGDONG KANSAI TECHNOLOGY LTD. www.kansaicable.com.cn

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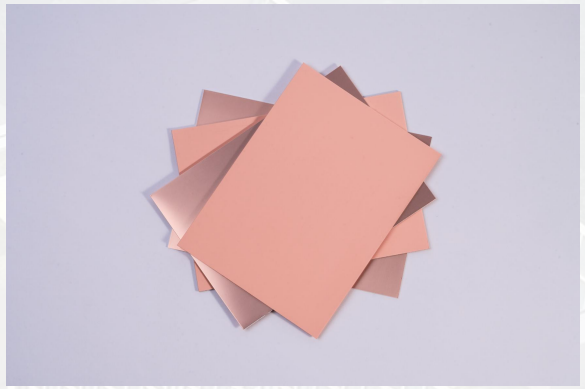
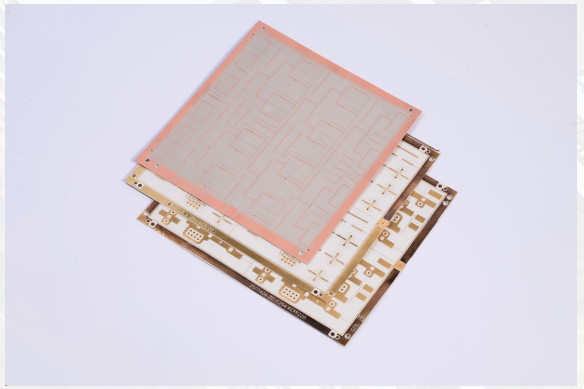
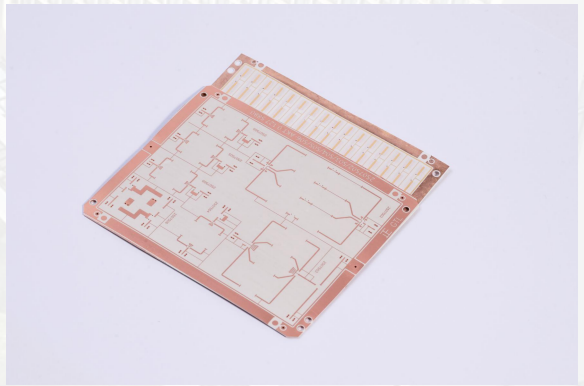
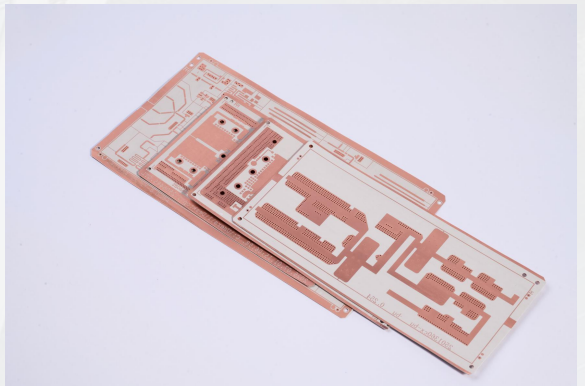
HIGH PERFORMANCE CERAMIC-FILLED PTFE HIGH-FREQUENCY & HIGH-SPEED CCL





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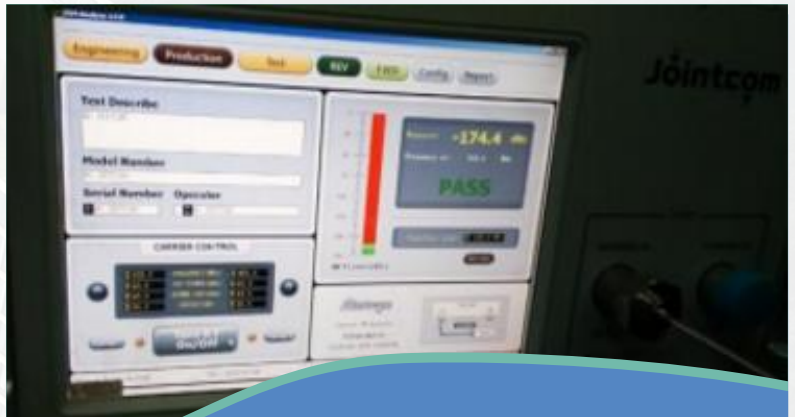
Technical Design Theory and Standards

“Product Quality Starts with Design”

KANSAI implements the national standard and the Communication Industry Standard of the People's Republic of China.

KANSAI implements the national standard: "Solid PTFE Insulated Braided Immersed Outer Conductor RF Coaxial Cable for Communication Cables".



KANSAI cable production complies with US military standards (MIL-STD).

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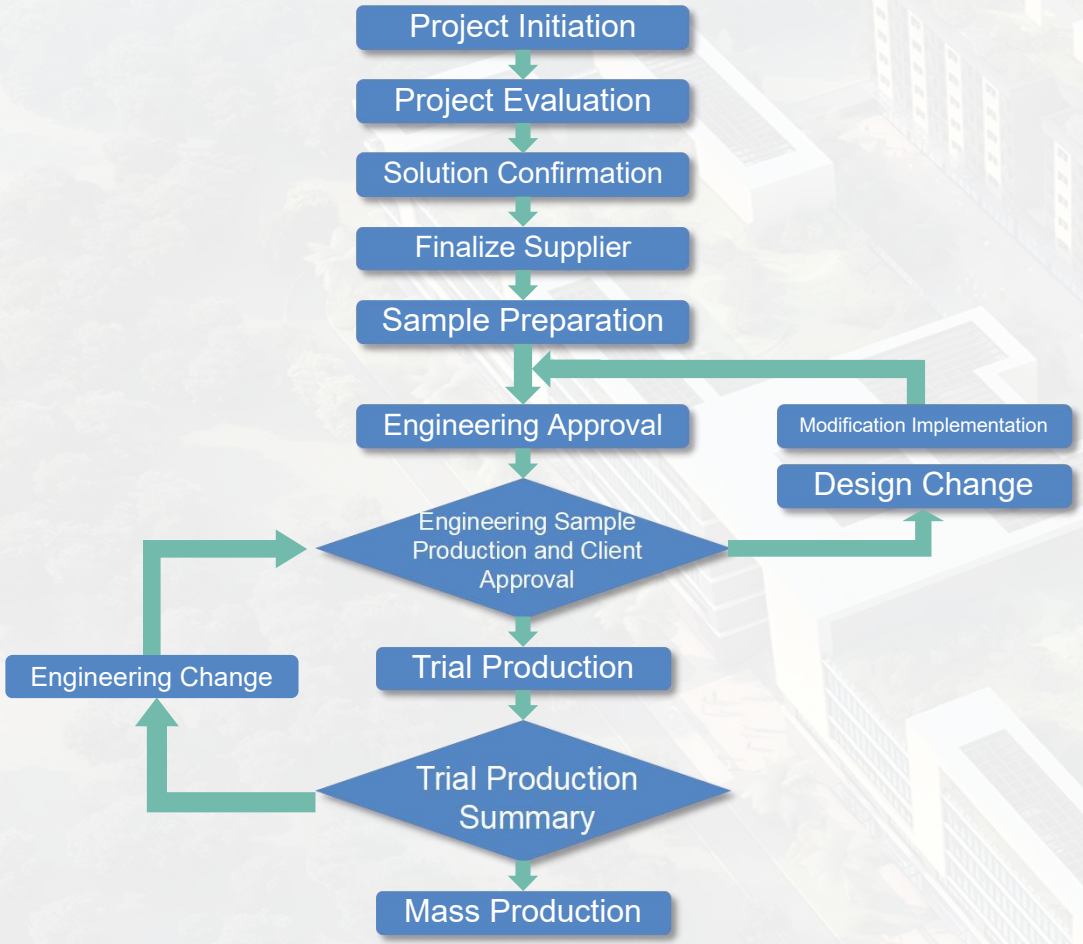
New Product Development (NPD)



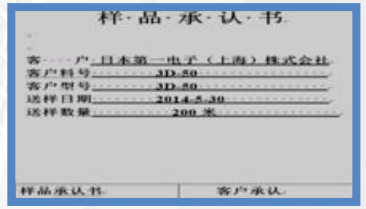
R&D Team Formation

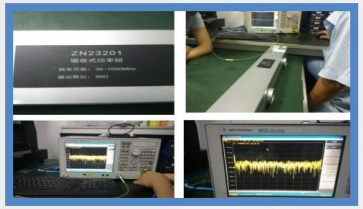
R&D Implementation

Experimental Testing

01 → 02 → 03 → 04 → 05 → 06

New Product Information Collection | Client Approval | Client Laboratory Testing





A number of new products are currently under research, development, and testing.

- Low-Frequency Low-Noise RF Coaxial Cable
- Micro-Coaxial RF Cable / Micro-Coax
- High-Performance PTFE Ceramic-Filled High-Frequency High-Speed Substrate

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New Technology Breakthroughs & Applications

Beijing University of Posts and Telecommunications (BUPT)

Harbin Institute of Technology (HIT), School of Cable Engineering

Beijing University of Aeronautics and Astronautics (BUAA)

Experts from KANSAI TSUSHIN DENSEN CO., LTD. came to our factory to provide technical guidance.

Industry-University-Research Collaboration

In collaboration with Beihang University, Beijing University of Posts and Telecommunications (BUPT), and Harbin Institute of Technology (HIT), we continuously optimize our equipment, processes, and materials.

International Technical Cooperation

In cooperation with KANSAI TSUSHIN DENSEN CO., LTD., we have enhanced our single-machine continuous production capacity to the most advanced international level.

Significantly Improved Production Efficiency

The annual output per machine has increased by 1.5 times, achieving energy-efficient and high-performance levels that meet international advanced standards. The process efficiency for semi-flexible cables has been tripled.

Focus Areas of Technical Achievements

Focusing on process innovation and production efficiency breakthroughs for core mobile communication products.

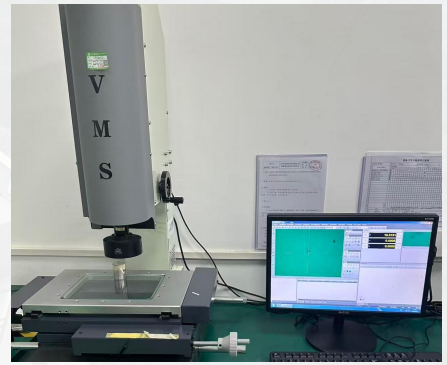
Some of Our Testing Equipment

Network Analyzer

Third-Order Intermodulation Tester

Coating Thickness Tester

Eccentricity Tester



High-Temperature Testing Machine

Temperature Test Chamber

Wire Diameter Tester

Impedance Tester

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Production Process Control

Third-Order Intermodulation (IM3) Monitoring

Outer Diameter (OD) Monitoring

Impedance Testing

Withstand Voltage Monitoring

Electrical Performance Analysis

Continuous Quality Improvement Meetings

Comprehensive Testing Capability

48 sets of testing equipment for 100% full-process production tracking and inspection.

Multi-Level Quality Control

IPQC (In-Process Quality Control) – 24-hour monitoring
OQC (Outgoing Quality Control) – Strict final inspection

Precision Production Control

Precisely set production pitch and parameters with fully automated computer monitoring for consistent quality.

Continuous Improvement Mechanism

Weekly quality improvement meetings to continuously optimize and enhance quality.

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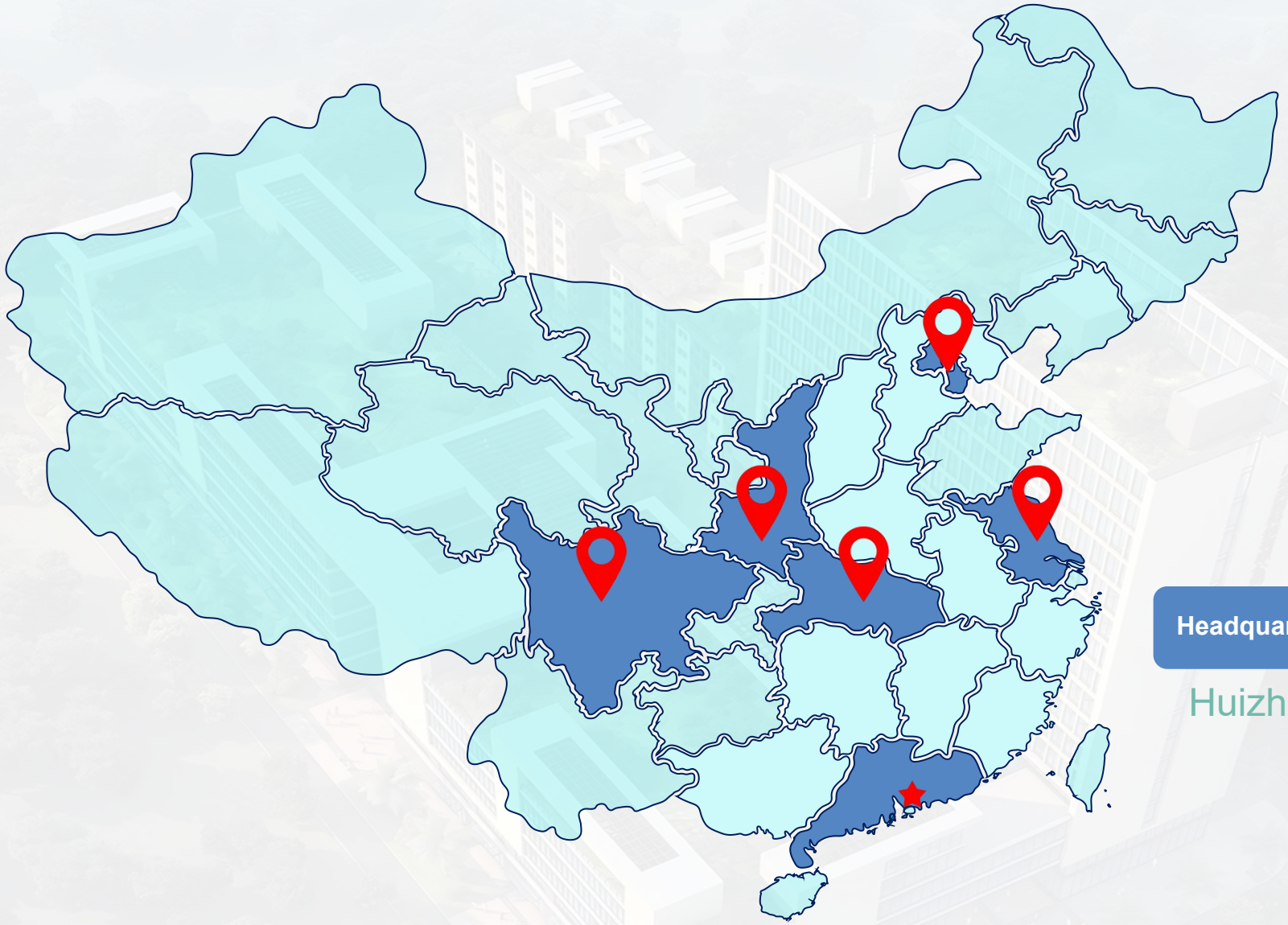

Headquarters

Huizhou

Offices

Shenzhen, Shanghai, Beijing, Chengdu, Xian, Wuhan

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