广东关西科技有限公司

GUANGDONG KANSAI TECHNOLOGY CO., LTD.

SUPERIOR QUALITY

DETAIL ORIENTED



Version 1.1.0

Contents

01 Company Overview

02 Honors, Certifications & Patents

03 Production Facilities

04 Product Portfolio

05 Design, R&D & Technologies

06 Test Equipment & Quality Control

07 Office Locations

08 Major Clients

About Us

Company Overview

GUANGDONG KANSAI TECHNOLOGY Co., LTD. specializes in high-temperature-resistant RF coaxial cables, integrating independent R&D, manufacturing and sales. With over 20 years of production experience, we focus on developing and manufacturing RF coaxial cables.

Widely used for high-frequency signal transmission in equipment

Mobile Communications	Aerospace	Microwave Communications	Radar
Satellites	Mobile Phones	Rail Transit	Medical & Healthcare



2001
Established

27,400 m²
Total Factory Area

2,000 m²
Cleanroom

RMB 120 Million
Total Investment

Address: 5 Shiquanling Road, Zhongkai High-Tech District, Huizhou City, Guangdong, China

TEL: (86-755) 25628555 URL: https://www.kansaicable.com.cn/ E-mail: kansai@kansaicable.com.cn

About Us

Company Overview

Coaxial cables and cable assemblies in all specifications can be customized to your requirements.

We prioritize environmental protection and product compliance.

REACH and RoHS reports are available to confirm 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 includes, but is not limited to, seven main categories:

KTR Semi-Flexible Coaxial Cable Series

KTG Semi-Rigid Coaxial Cable Series

RG Coaxial Cable Series

KTMICRO High-Precision Coaxial Cable Series

KTMR Coaxial Cable Series

KT High-Temperature Electronic Wire Series

High-Performance Ceramic-Filled PTFE CCL Substrates for High-Frequency & High-Speed Applications

Address: 5 Shiquanling Road, Zhongkai High-Tech District, Huizhou City, Guangdong, China

TEL: (86-755) 25628555 URL: https://www.kansaicable.com.cn/ E-mail: kansai@kansaicable.com.cn

Honors, Certifications & Patents



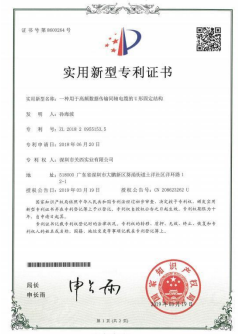
Environmental Management System Certificate



Occupational Health and Safety Management System Certificate



Quality Management System Certificate



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



Novel PTFE Preforming Process



Sector-Shaped Lotus-Root-Core Coaxial Cable and Its Manufacturing Process



Mold for Manufacturing Sector-Shaped Lotus-Root-Core Coaxial Cable



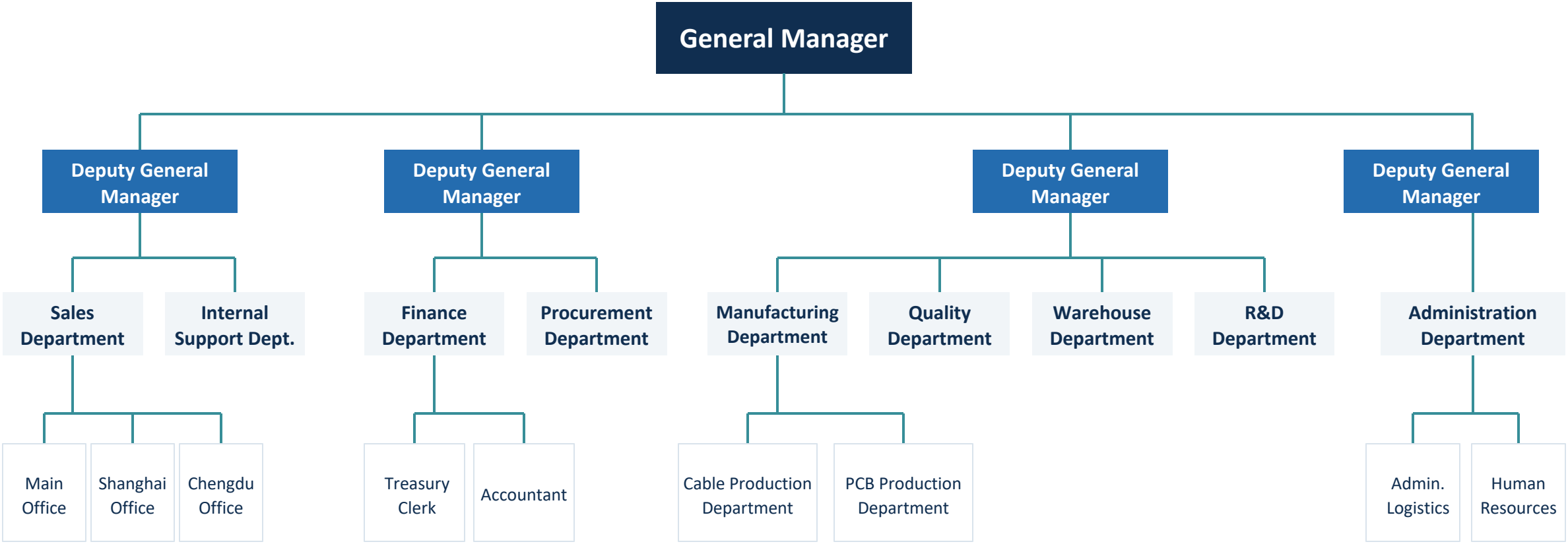
Cable Material Preforming Device

Address: 5 Shiquanling Road, Zhongkai High-Tech District, Huizhou City, Guangdong, China

TEL: (86-755) 25628555 URL: https://www.kansaicable.com.cn/ E-mail: kansai@kansaicable.com.cn

Organization Chart

Company Overview



Honors, Certifications & Patents



Cable Spooling Device with Automatic Wire Arrangement and Rotation



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



Nine-Hole Lotus-Root-Shaped, Sector-Shaped PTFE Low-Loss Coaxial Cable



Anti-Eccentricity Device for PTFE Preforming



Semi-Rigid RF Coaxial Cable



High-Precision Coaxial Cable



Low-Loss Semi-Flexible Coaxial Cable



High-Precision, Low-Loss RF Coaxial Cable with Amplitude and Phase Stability

Address: 5 Shiquanling Road, Zhongkai High-Tech District, Huizhou City, Guangdong, China

TEL: (86-755) 25628555 URL: https://www.kansaicable.com.cn/ E-mail: kansai@kansaicable.com.cn

Honors, Certifications & Patents



















Automatic Wire Cutting Machine

Wire Spooling Machine

Shielded Coaxial Cable for High-Frequency Data Transmission

Butterfly-Shaped Coaxial Cable for High-Frequency Data Transmission

Flat Coaxial Cable for High-Frequency Data Transmission with a Simple Fixing Function

Shaving Equipment for Repairing Oversized Outer Diameters of Semi-Flexible Coaxial Cable

U-Shaped Coaxial Cable for High-Frequency Data Transmission

Butterfly-Shaped Connecting Terminal for Coaxial Cables Used in High-Frequency Data Transmission

Coaxial Cable for High-Frequency Data Transmission with a Status Display Function

Address: 5 Shiquanling Road, Zhongkai High-Tech District, Huizhou City, Guangdong, China

TEL: (86-755) 25628555 URL: https://www.kansaicable.com.cn/ E-mail: kansai@kansaicable.com.cn

Production Facilities

Factory Production Capacity:

KTR-141-50 cable: 100,000 m/day

KTMR cable: 10 million m/year

KTR-250-50 cable: 30,000 m/day

Low-Loss cable: 100,000 m/year

Cable Stripping: 60,000 pieces/day

Semi-Rigid cable: 500,000 m/year

RG series: 3.0 million m/year

PTFE Extrusion Workshop





Braiding Workshop





Jacketing & Low-Loss Phase Stable Workshop





Cable Stripping Workshop





Address: 5 Shiquanling Road, Zhongkai High-Tech District, Huizhou City, Guangdong, China

TEL: (86-755) 25628555 URL: https://www.kansaicable.com.cn/ E-mail: kansai@kansaicable.com.cn

Honors, Certifications & Patents



Cable Spooling Device with Automatic Wire Arrangement and Rotation



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



Nine-Hole Lotus-Root-Shaped, Sector-Shaped PTFE Low-Loss Coaxial Cable



Anti-Eccentricity Device for PTFE Preforming



Semi-Rigid RF Coaxial Cable



High-Precision Coaxial Cable



Low-Loss Semi-Flexible Coaxial Cable



High-Precision, Low-Loss RF Coaxial Cable with Amplitude and Phase Stability

Address: 5 Shiquanling Road, Zhongkai High-Tech District, Huizhou City, Guangdong, China

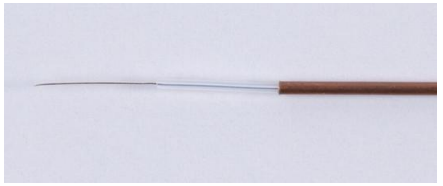
TEL: (86-755) 25628555 URL: https://www.kansaicable.com.cn/ E-mail: kansai@kansaicable.com.cn

Product Portfolio

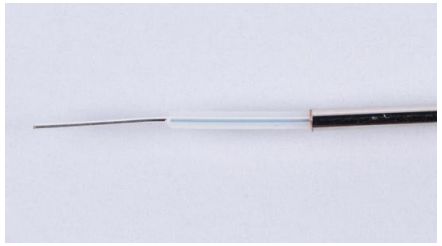
KTG Semi-Rigid Coaxial Cable Series



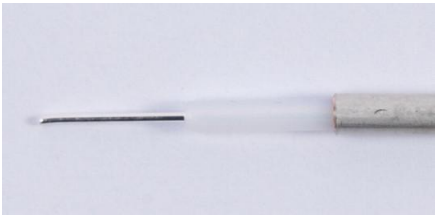
KTG Semi-Rigid Coaxial Cable Series



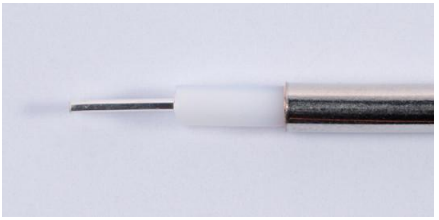
KTG-034-50 Bare Copper



KTG-047-50 Ternary-Alloy-Plated

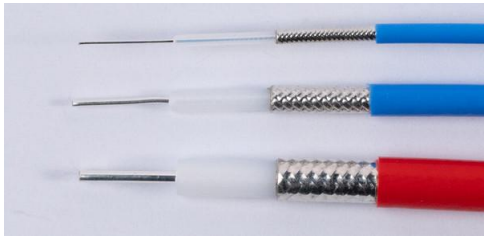


KTG-086-50 Tin-Plated

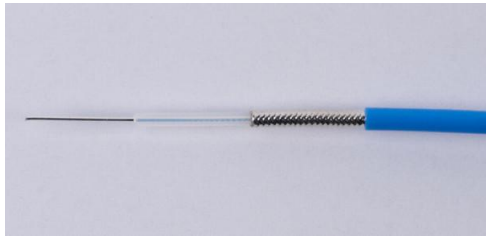


KTG - 141-50 Ternary-Alloy-Plated

KTR Semi-Flexible Coaxial Cable Series



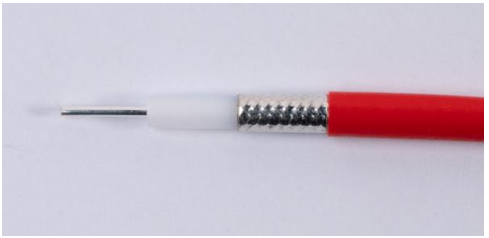
KTG Semi-Flexible Coaxial Cable Series



KTRFBU-047-50



KTRFBU-086-50



KTRFBU-141-50

Product Portfolio

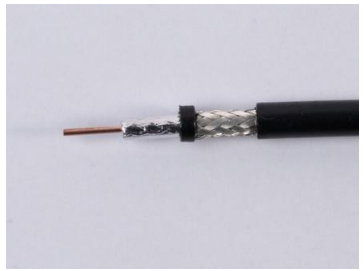
KTMR Low-Loss Coaxial Cable



KTMR Series

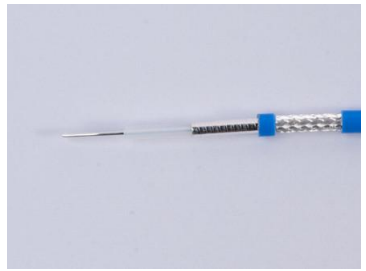


KTMR-195-50 PE/PVC

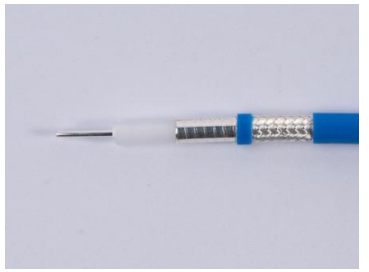


KTMR-240-50 PE/PVC

KTMICRO High-Precision Coaxial Cable



KTMICRO-086-50
FEP/PFA



KTMICRO-141-50
FEP/PFA

High-Temperature Electronic Wire Series

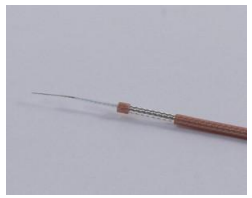


High-Temperature Electronic Wire

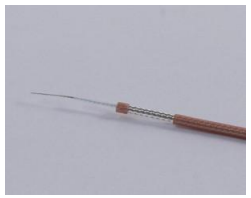
RG Coaxial Cable



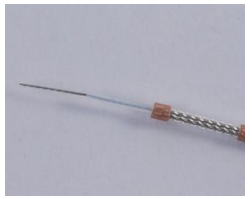
RG-142-50DB
FEP



RG-178-50
FEP



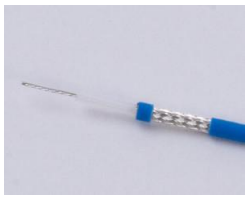
RG-178-50
FEP



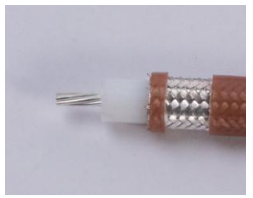
RG-178-50
FEP



RG-223-50DB
FEP



RG-316-50
FEP



RG-393-50DB
FEP

Address: 5 Shiquanling Road, Zhongkai High-Tech District, Huizhou City, Guangdong, China

TEL: (86-755) 25628555 URL: https://www.kansaicable.com.cn/ E-mail: kansai@kansaicable.com.cn

KTCRA High-Performance RF Coaxial Cable

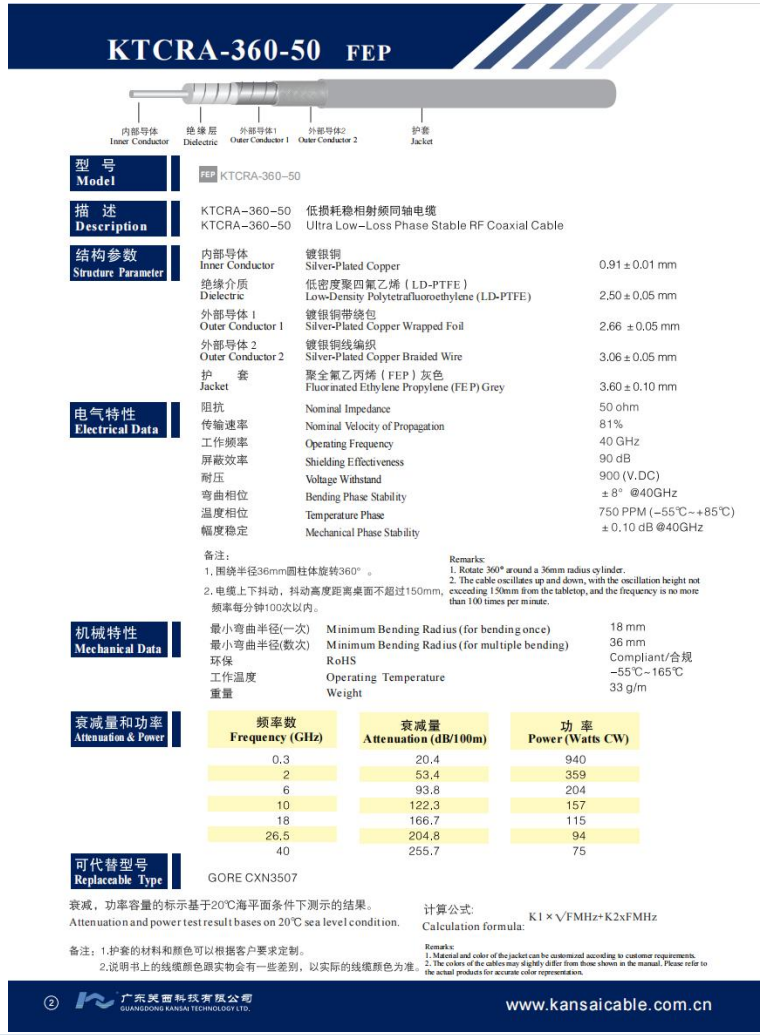
Low-Loss, Phase-Stable Series



- KTCRA-220-50 Grey FEP
  (Equivalent to GORE CXN3506)
- KTCRA-360-50 Grey FEP
  (Equivalent to GORE CXN3507)
- KTCRA-480-50 Grey FEP
  (Equivalent to GORE CXN3449)



- KTCRA-500-50 Grey FEP
- KTCRA-550-50 Grey FEP



KTCRA-360-50 FEP

内部导体 Inner Conductor | 绝缘层 Dielectric | 外部导体1 Outer Conductor 1 | 外部导体2 Outer Conductor 2 | 护套 Jacket

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 Silver-Plated Copper Wrapped Foil	2.66 ±0.05 mm
	外部导体2 Outer Conductor 2	镀银铜线编织 Silver-Plated Copper Braided Wire	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 & 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: $K1\times\sqrt{FMHz}+K2\times FMHz$

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.

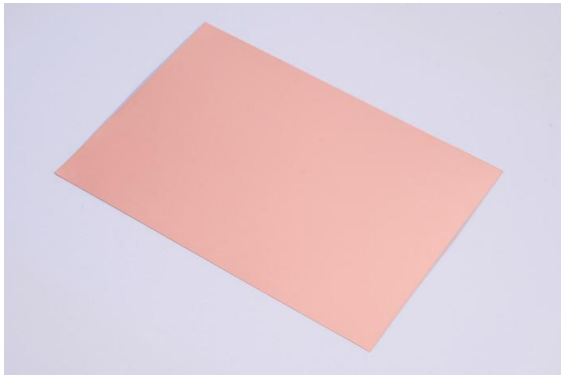
② 广东美西科技有限公司 GUANGDONG KANSAI TECHNOLOGY LTD. www.kansaicable.com.cn

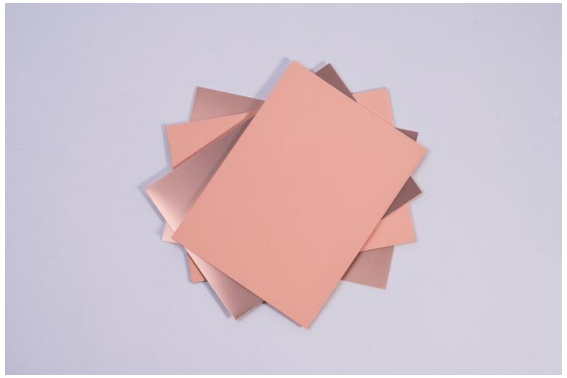
Address: 5 Shiquanling Road, Zhongkai High-Tech District, Huizhou City, Guangdong, China

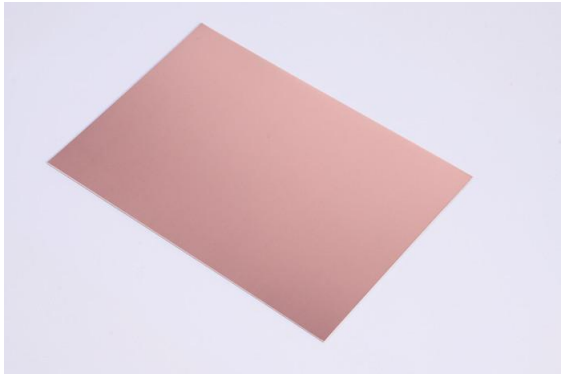
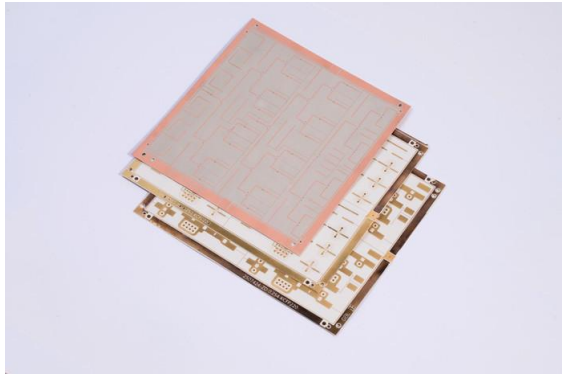
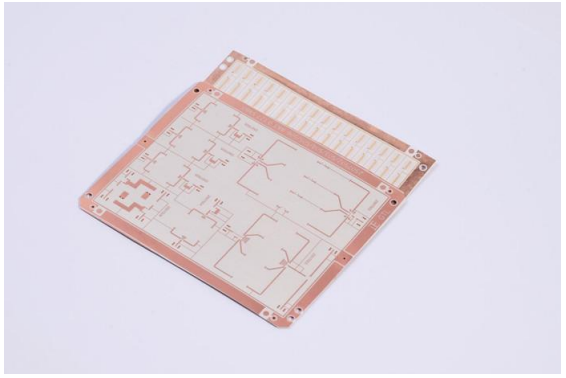
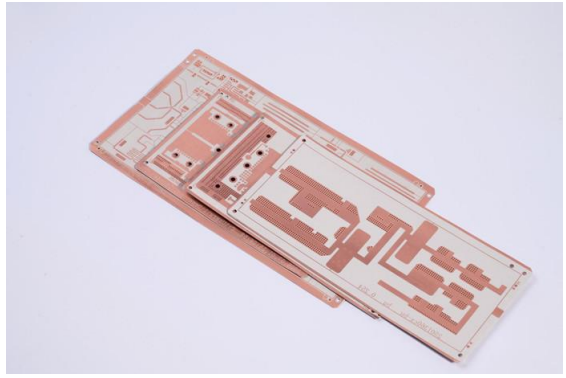
TEL: (86-755) 25628555 URL: https://www.kansaicable.com.cn/ E-mail: kansai@kansaicable.com.cn

High-Performance Ceramic-Filled PTFE CCL Substrates

High-Frequency & High-Speed Applications





Address: 5 Shiquanling Road, Zhongkai High-Tech District, Huizhou City, Guangdong, China

TEL: (86-755) 25628555 URL: https://www.kansaicable.com.cn/ E-mail: kansai@kansaicable.com.cn

Technical Design Theory & Standards

Design, R&D & Technology

Product Quality Starts with Design







In accordance with National Standards

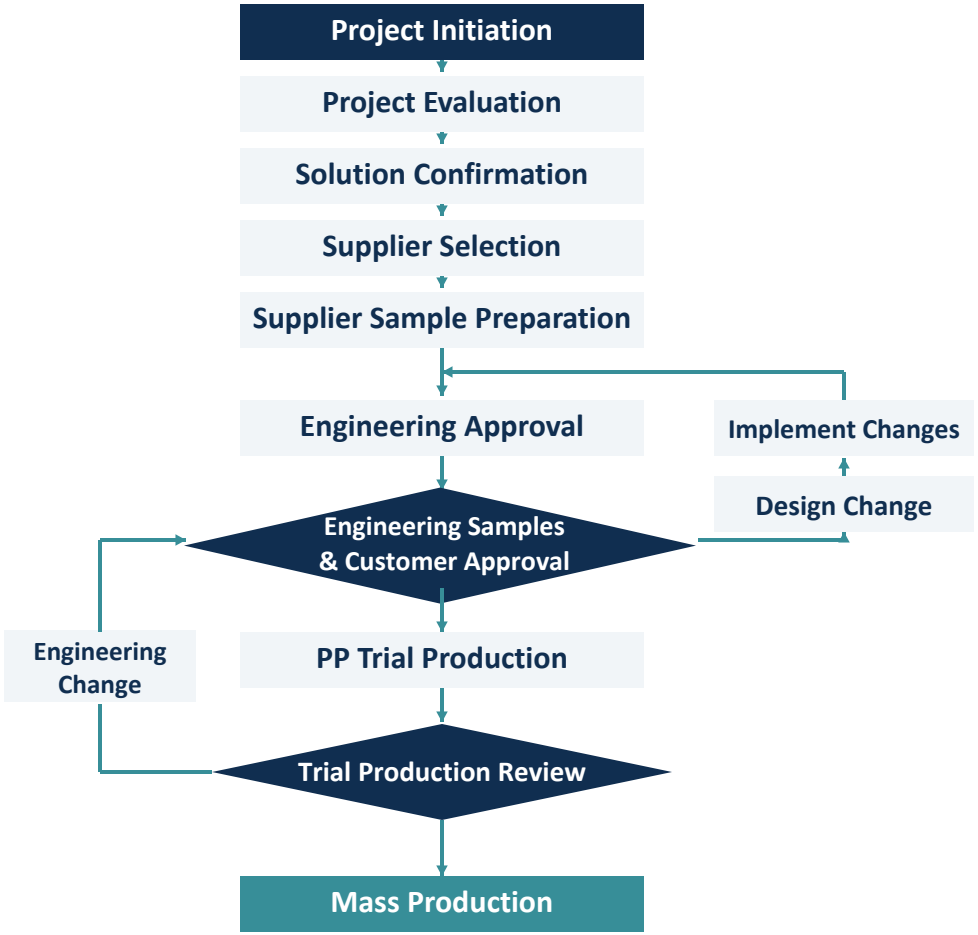
Communications Industry Standards of the People's Republic of China

Standard for Communication Cables: Solid PTFE-Insulated RF Coaxial Cables with a Braided, Immersed Outer Conductor

Our coaxial cables are manufactured in accordance with U.S. Military Standards

New Product Development

Design, R&D & Technology





R&D Team Formation



R&D Implementation



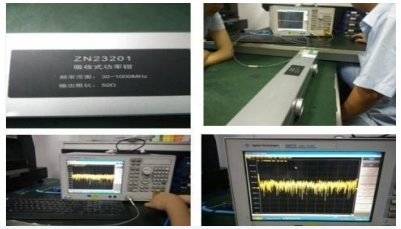
Experimental Testing

01 → 02 → 03 → 04 → 05 → 06

New Product Data Collection | Customer Approval | Customer Laboratory Testing







New products are currently under development and testing.

Low-Frequency, Low-Noise RF Coaxial Cable

Ultra-Fine RF Coaxial Cable

High-Performance Ceramic-Filled PTFE Substrates for High-Frequency & High-Speed Applications

New Technology Breakthroughs & Applications

Design, R&D & Technology



Beijing University of Posts and Telecommunications (BUPT)



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



Beijing University of Aeronautics and Astronautics (BUAA)



On-site technical guidance from Japan Kansai Experts

Industry–University–Research Collaboration

We continuously optimize equipment, processes and materials with Beihang University, BUPT and HIT.

Significantly Improved Production Efficiency

Annual output per machine increased by 1.5 times, with energy-saving, high-efficiency performance reaching advanced international levels. Semi-flexible cable process efficiency tripled.

International Technical Cooperation

With KANSAI TSUSHIN DENSEN CO., LTD. of Japan, we have raised single-machine continuous production capacity to the most advanced international level.

Focus Areas of Technical Achievements

We focus on process innovation and production efficiency breakthroughs for core mobile communications products.

Address: 5 Shiquanling Road, Zhongkai High-Tech District, Huizhou City, Guangdong, China

TEL: (86-755) 25628555 URL: https://www.kansaicable.com.cn/ E-mail: kansai@kansaicable.com.cn

Test Equipment

Testing Equipment & Quality Control



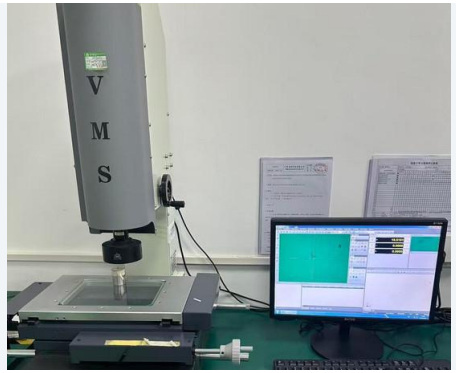
Network Analyzer



Third-Order Intermodulation Tester



Coating Thickness Tester



Eccentricity Tester



High-Temperature Test Machine



High / Low Temperature Test Chamber



Automatic Wire Diameter Tester



Impedance Tester

Address: 5 Shiquanling Road, Zhongkai High-Tech District, Huizhou City, Guangdong, China

TEL: (86-755) 25628555 URL: https://www.kansaicable.com.cn/ E-mail: kansai@kansaicable.com.cn

Production Process Control

Testing Equipment & Quality Control



Third-Order Intermodulation Monitoring



Outer Diameter Monitoring



Impedance Testing



Withstand Voltage Monitoring



Electrical Performance Analysis



Quality Improvement Meetings

Comprehensive Testing Capability

48 units of testing equipment provide 100% tracking and inspection throughout production.

Multi-Level Quality Control

IPQC (In-Process Quality Control): 24-hour monitoring
OQC (Outgoing Quality Control): strict final checks

Precision Production Control

Precisely set production pitch and equipment parameters, with automated computer testing throughout to ensure consistency.

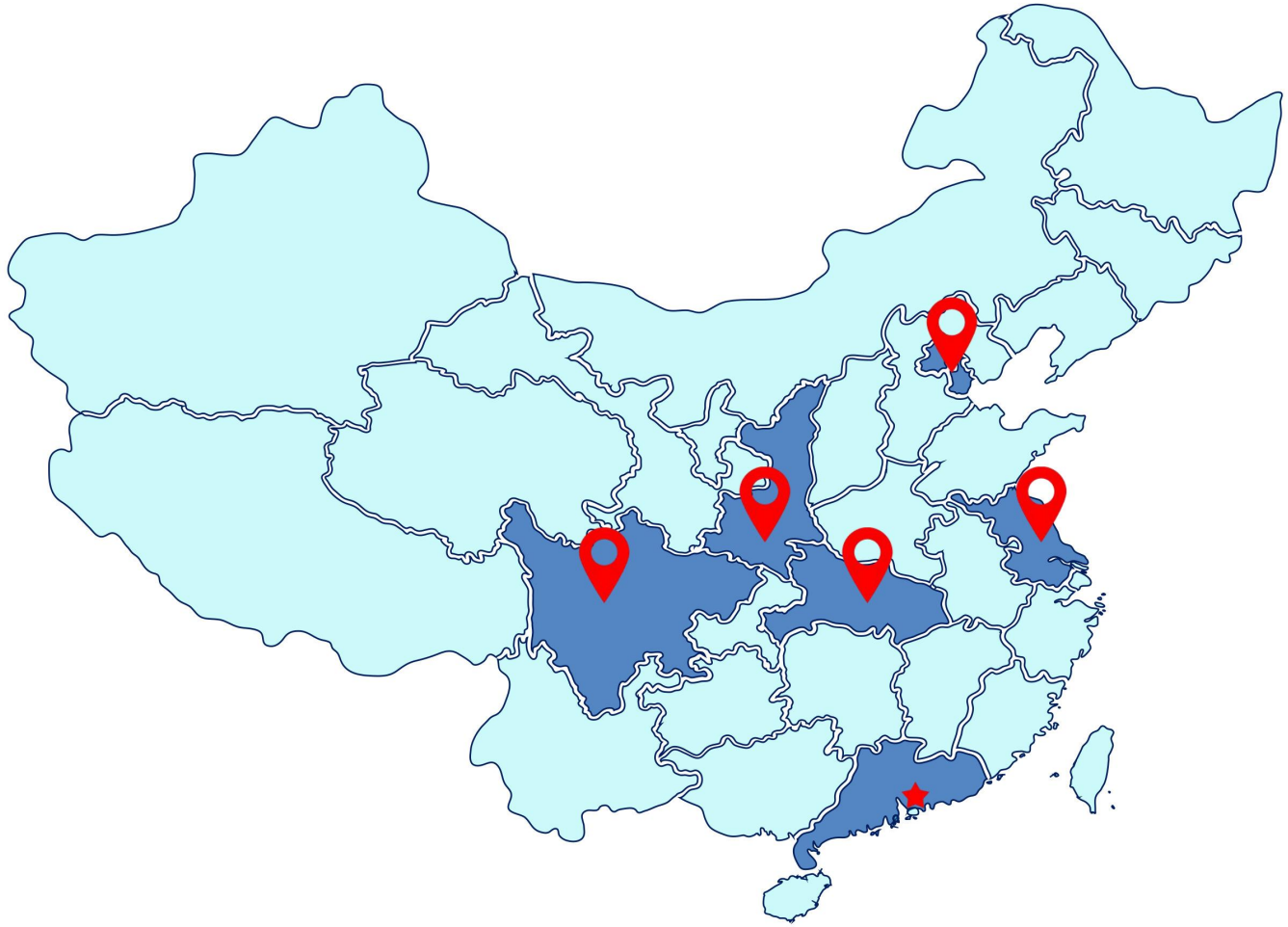
Continuous Improvement

Weekly quality improvement meetings drive continuous optimization and quality enhancement.

Address: 5 Shiquanling Road, Zhongkai High-Tech District, Huizhou City, Guangdong, China

TEL: (86-755) 25628555 URL: https://www.kansaicable.com.cn/ E-mail: kansai@kansaicable.com.cn

Office Locations



Headquarters

Huizhou

Offices

Shenzhen **Shanghai** **Beijing**

Chengdu **Xi'an** **Wuhan**

Address: 5 Shiquanling Road, Zhongkai High-Tech District, Huizhou City, Guangdong, China

TEL: (86-755) 25628555 URL: https://www.kansaicable.com.cn/ E-mail: kansai@kansaicable.com.cn

Partners

Major Clients

関西通信電線株式会社
KANSAI TSUSHIN DENSEN CO.,LTD.

HUAWEI

NIPPON ANTENNA

Fujikura

Comba
京信网络

中信科移动
CICT Mobile

Amphenol®

gamma nu
PIM FREE ANTENNA

DEREN
得润电子

TATFOOK

MOBI 摩比

精诚电子
JINGCHENG ELECTRON

KBT
专业天线制造商
-Since 1985-

ZTT
中天科技

Recodeal

M.gear

Address: 5 Shiquanling Road, Zhongkai High-Tech District, Huizhou City, Guangdong, China

TEL: (86-755) 25628555 URL: https://www.kansaicable.com.cn/ E-mail: kansai@kansaicable.com.cn

TEL: (86-755) 25628555
URL: https://www.kansaicable.com.cn/
E-mail: kansai@kansaicable.com.cn

广东关西科技有限公司

GUANGDONG KANSAI TECHNOLOGY CO., LTD.

Thank You

Superior Quality & Detail Oriented

