

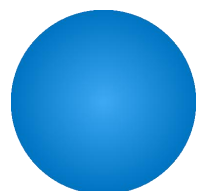
Linoya领亚®

Cable To Life 连接你我 感知生活

领亚电子科技股份有限公司

LINOYA ELECTRONIC TECHNOLOGY CO., LTD





Company Introduction

▶ Company Introduction

▶ Group Sales Performance

▶ Our Products

▶ Factory Overview

▶ Quality Management System

▶ Automotive Wires and Applications

▶ Latest Product Features



Linoya Electronic
Technology Co.,Ltd



Guangdong Linoya Electronics
Technology Co., Ltd.



Shenzhen Linoya
Electronics Co., Ltd.



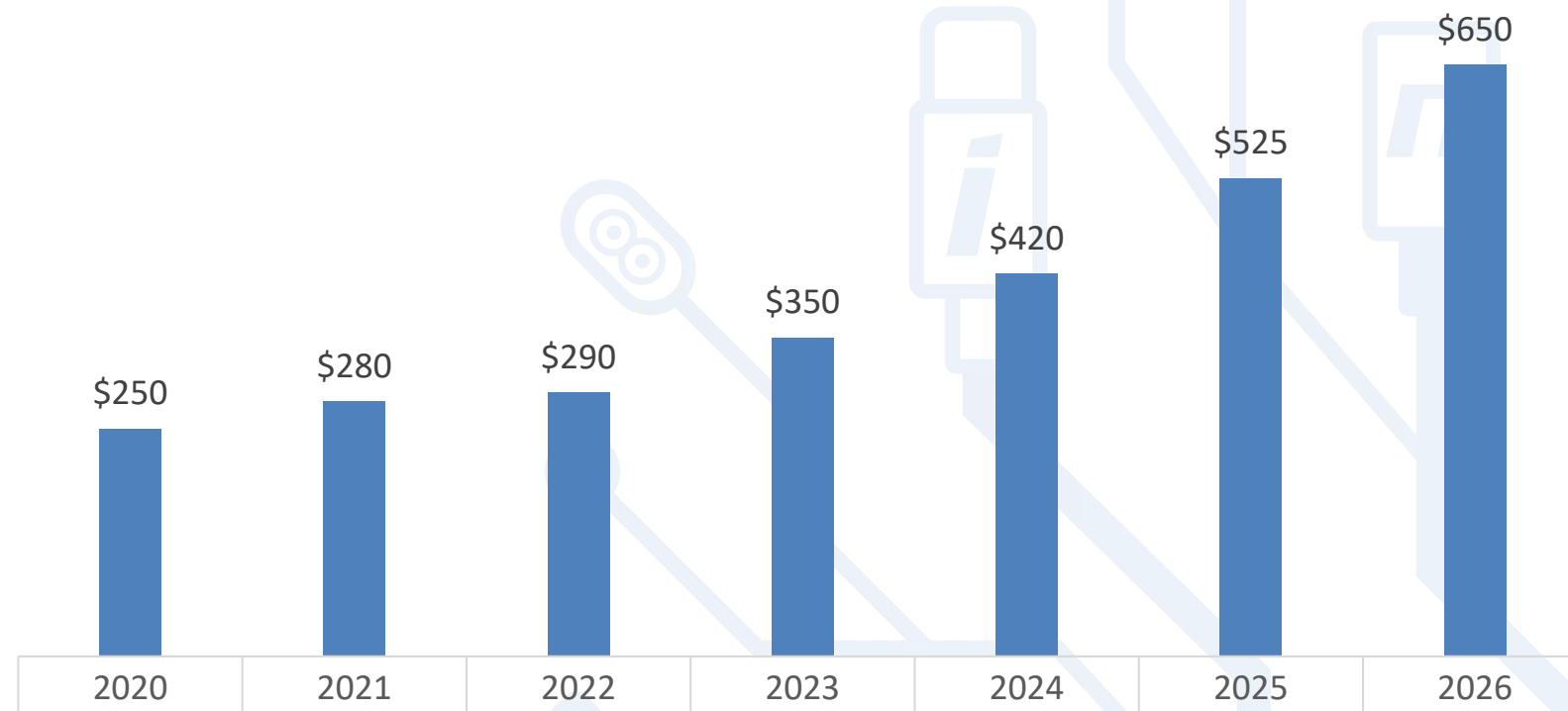
Dongguan Linoya Intelligent
Technology Co., Ltd



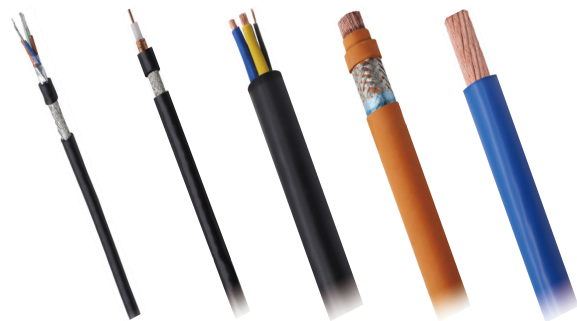
Linoya Electronic Vietnam
Co.,LTD

- **Founded in 1997**
- **3,000 Employees**
- **150 R&D Engineers**
- **5 Manufacturing Sites**

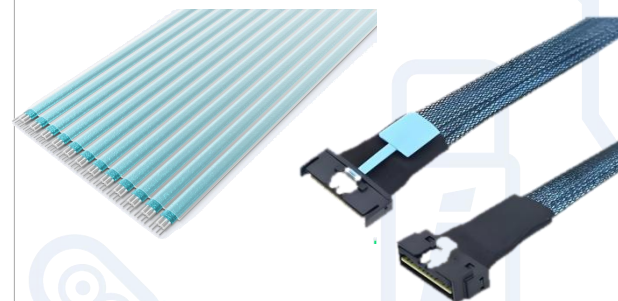
Gross Sales (In USD/Million)



Automotive Wires and PV, Energy Storage Cables



High-Speed Cables



Power Cord



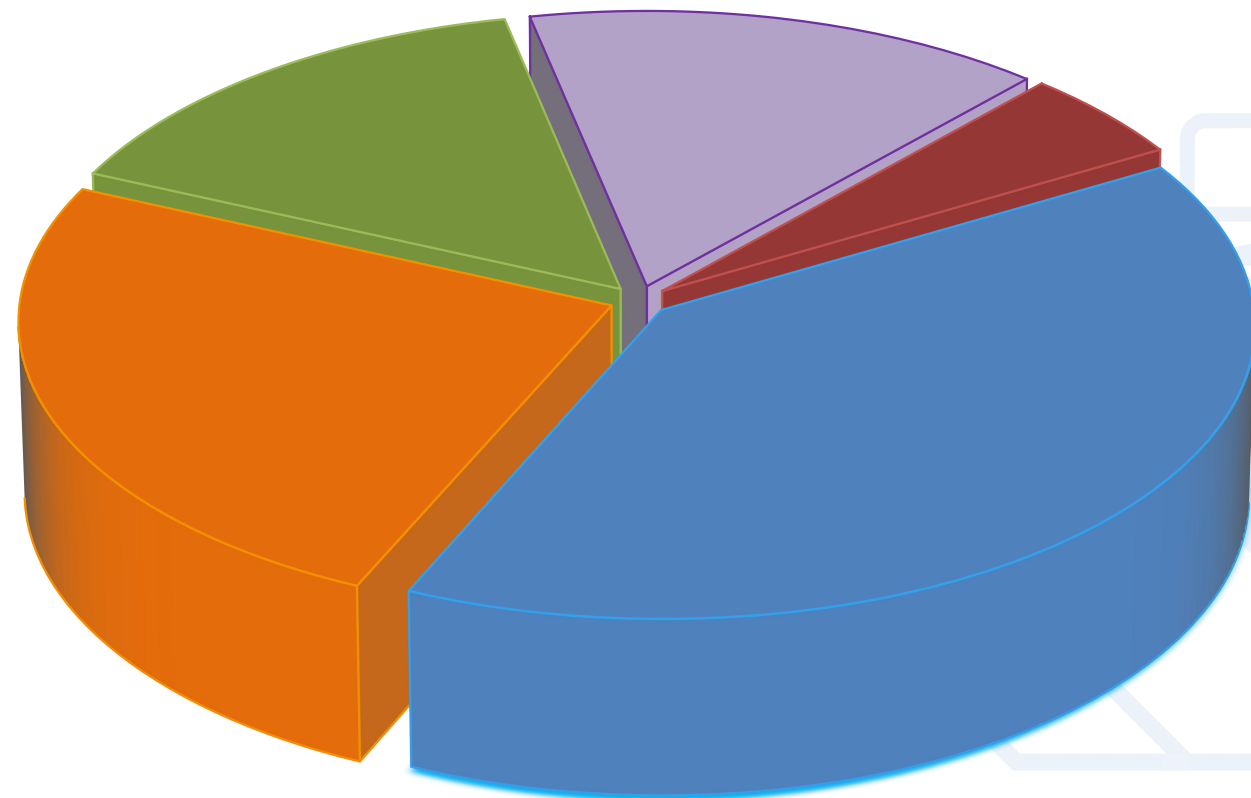
Photovoltaic/Energy Storage Series Cables and Precision Components



Data Center and Cabling System Series



PVC, Low-smoke Halogen-free Polymer Materials



Consumer Electronics
40%

Automotive Wires and Cables
25%

PV, Energy Storage & EV Charging
15%

High-speed Cables
15%

Others
5%

Linoya领亚® | Factory Overview

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Dongguan Songshan Lake Linoya Industrial Park

With a total area of 90,000 square meters, this facility mainly focuses on the manufacturing of a wide range of wire and cable products.





Linoya 领亚® | Factory Overview

Cable To Life 连接你我 感知生活







Dongguan Chashan Linoya Industrial Park

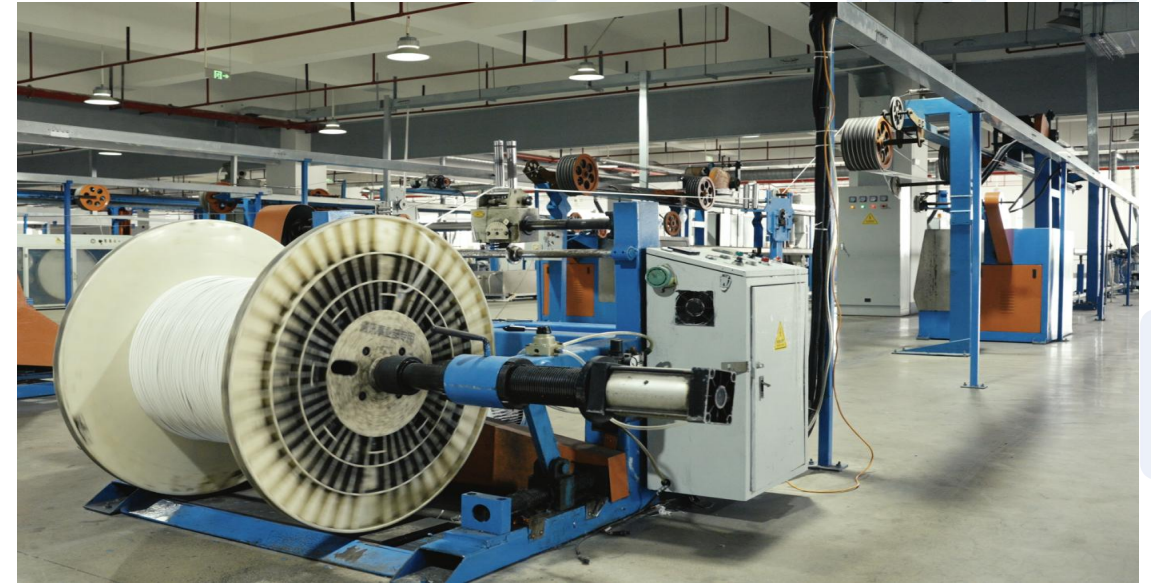
Covering an area of 80 acres, Phase I was put into operation in 2023. The park is planned to have a total construction area of 140,000 square meters, with 50,000 square meters of factory buildings and 20,000 square meters of dormitories and office space already completed.



Linoya 领亚® | Factory Overview

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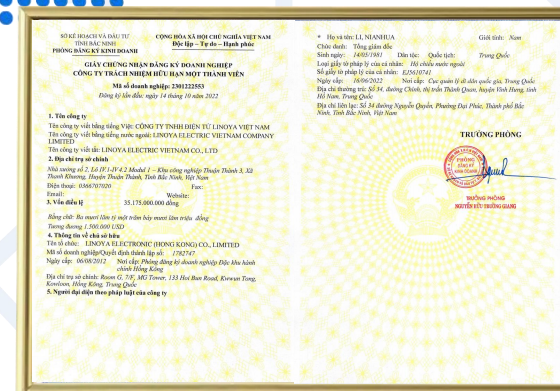




Overseas Market Expansion

Linoya Electronics (Vietnam) Co., Ltd.

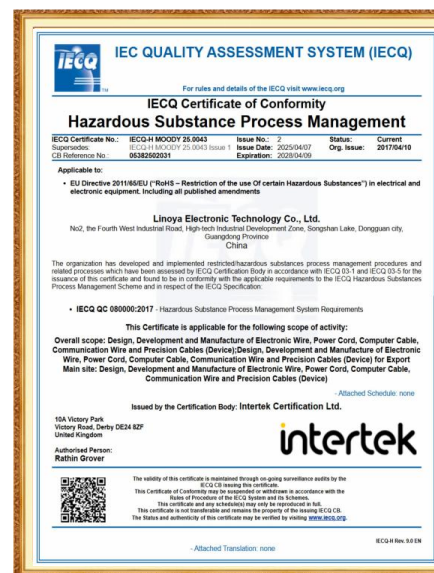
Officially began operations in April 2023, with an annual production capacity of 20 million USD.



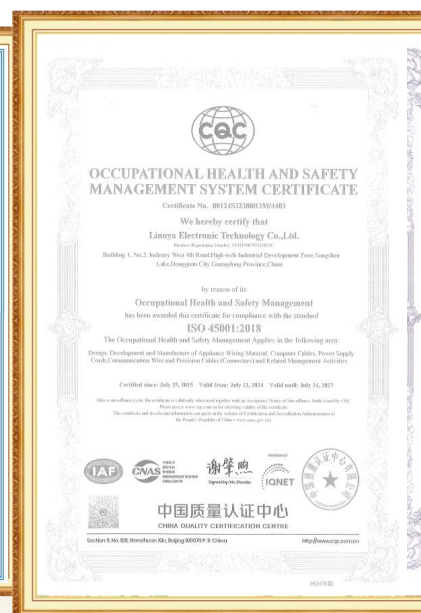


Quality Management System

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Cable To Life



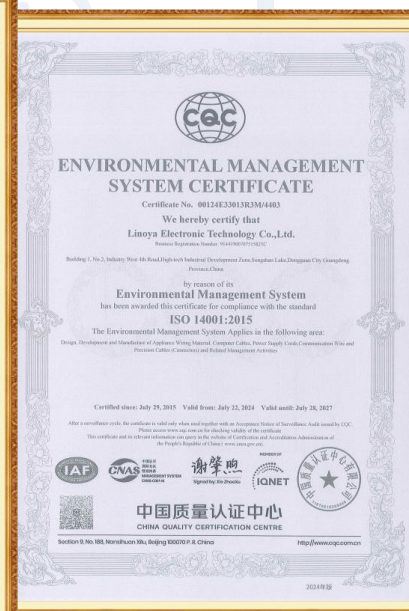
QC080000



ISO45001



IATF16949



ISO14001



ISO9001

150+
R & D Engineer

240
Authoritative Certification

105+
The number of patents

Product System Certification



Quality system certification

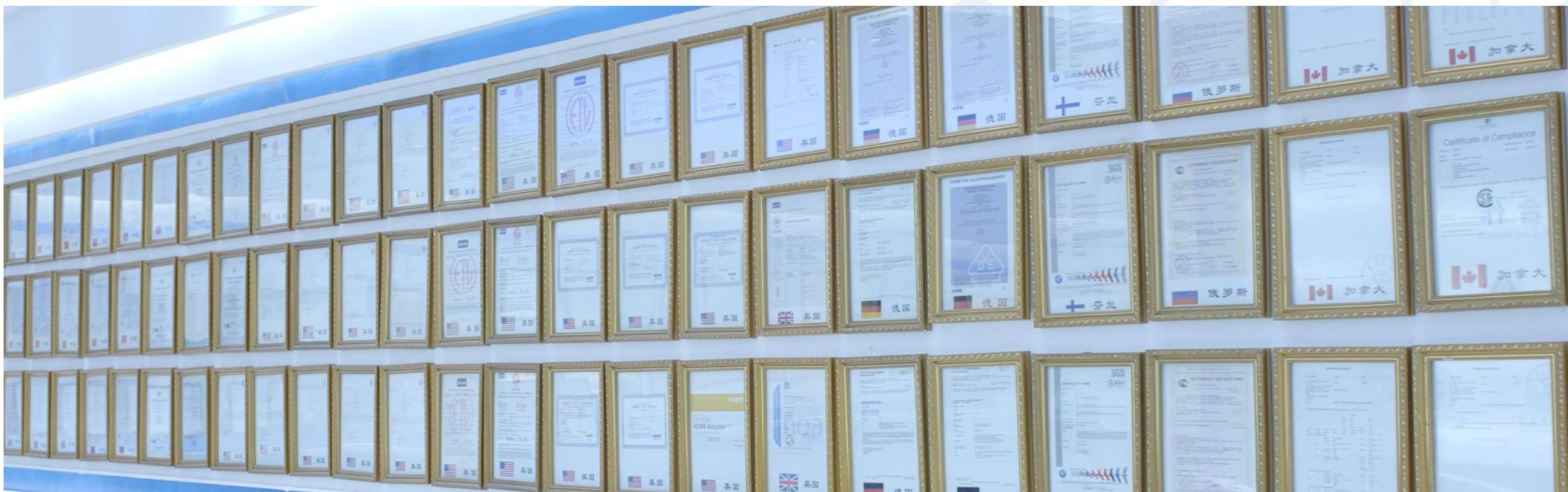


Environmental and Environmental Protection System Certification



Patent certification







High Frequency Laboratory



Physical Laboratory

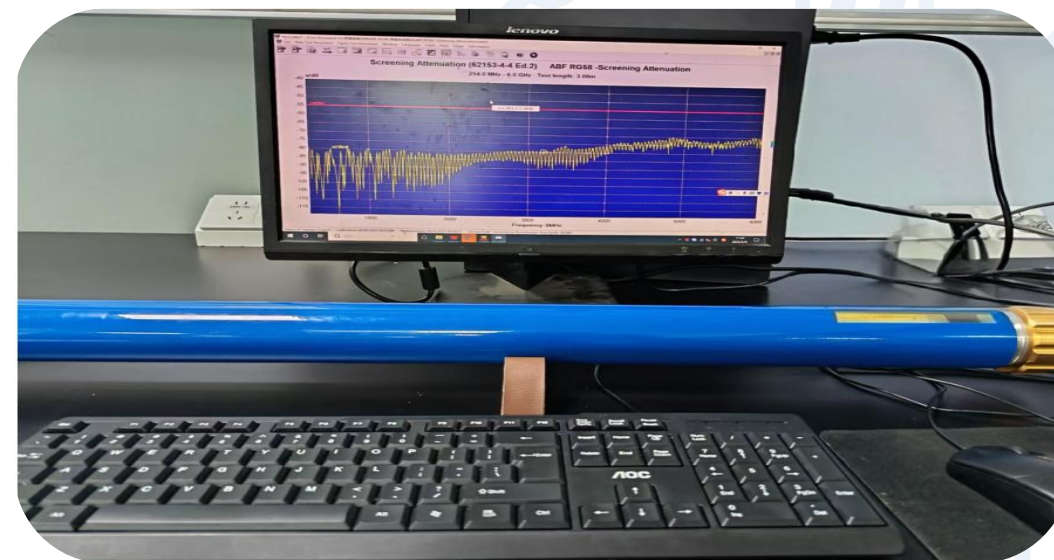


Electric Characters Laboratory



Environmental Laboratory

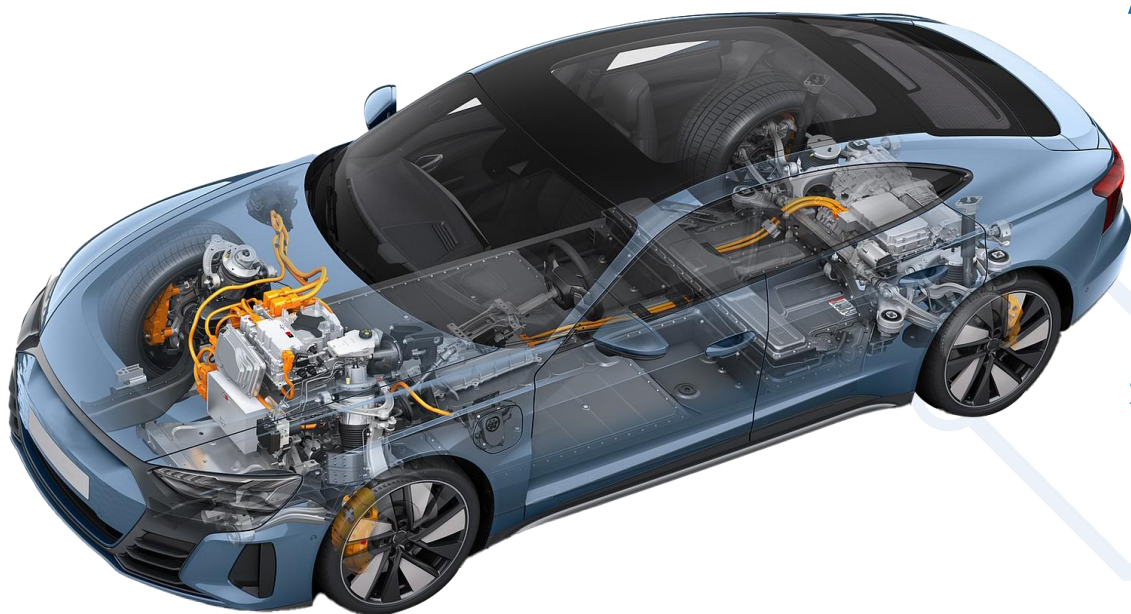












Automotive Wires and Applications

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比亚迪汽车



上汽大众
SAIC VOLKSWAGEN



TESLA



CHERY



理想



广汽传祺



AITO



小鹏汽车
XPENG



LEAPMOTOR
零跑汽车



吉利汽车
GEELY AUTO



极氪
ZEEKR



仰望
Yangwang



长安汽车
CHANGAN



上汽通用汽车
SAIC-GM



HYUNDAI



长城汽车
Great Wall Motors



KIA



TOYOTA



红旗

Amphenol®

• **A P T I V** •

 电连技术股份有限公司
ELECTRIC CONNECTOR TECHNOLOGY CO., LTD.

molex®


航天电器

TE
connectivity

 **THB**



LJV 精銳为

海康威视®
HIKVISION™


HUAWEI

CATL
宁德时代

dji
大疆创新

ANKER 安克

 **小米**
www.mi.com

SAMSUNG

Galanx 格兰仕

LUXSHARE ICT

TCL
创意感动生活
The Creative Life

SUNWODA
欣旺达

LITEON®


Midea®

JPC
connectivity

 **NIU** 小牛电动

ZTE中兴



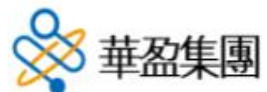
lenovo
联想

UGREEN 绿联



Great Wall®
长 城 电 源

FOXCONN®
富 士 康 科 技 集 团



acer®

BizLink

TOSHIBA

Panasonic®

CHANGHONG长虹

Hisense
海信

CHANGHONG长虹

HKC

EVE® 亿纬锂能

SVOLT
蜂巢能源

Skyworth

 **ninebot®** 九号

ASUS®

dreame
— 追 觅 科 技 —

Applications for Automobile Manufacturers	Model	Product series	Application Scenarios
 比亚迪汽车	BYD Song Pro	HSD: LY-535、USB 3.0、USB 3.1 Mini-FAKRA : RG174LL、RTK031、RTK044 Ethernet: 100Mbps Ethernet Gigabit Ethernet 10 Gigabit Ethernet Vehicle Charging Cable: H07BZ5-F	Touch screen, USB connection, autonomous driving, multimedia, entertainment, 360 camera system, radar, LiDAR
	BYD E-SEED GT EV		
	BYD Qin PLUS		
	Yangwang U8		
	BYD's full range		

Applications for Automobile Manufacturers	Model	Product series	Application Scenarios
	M7、M9	HSD: LY-535、USB 3.0、USB 3.1 Mini-FAKRA : RG174LL Ethernet: Gigabit Ethernet	Touch screen, USB connection, autonomous driving, multimedia, entertainment, 360 camera system, radar, LiDAR
	L8		

Applications for Automobile Manufacturers	Model	Product series	Application Scenarios
	GEELY AUTO	HSD: LY-535、USB 3.0 Mini-FAKRA : RG174LL Ethernet: Gigabit Ethernet	Touch screen, USB connection, autonomous driving, multimedia, entertainment, 360 camera system, radar, LiDAR
	ZEEKR 001		

Applications for Automobile Manufacturers	Model	Product series	Application Scenarios
	iCAR	HSD: LY-535 Mini-FAKRA : RG174LL	Touch screen, USB connection, 360 camera system, radar, LiDAR
	ES9		

Applications for Automobile Manufacturers	Model	Product series	Application Scenarios
 长安汽车 CHANGAN	UNI-V		
 长城汽车 Great Wall Motors	XIAOLONG MAX	HSD: LY-535 Mini-FAKRA : RG174LL	Touch screen, USB connection, 360 camera system, radar, LiDAR

COAXIAL CABLE

RG174LL 6G transmission coaxial cable

Product description

Product description

Product name: RG174LL

Temperature rating: -40°C~85°C to -40°C~105°C

Rated voltage: 60V

Bending radius: Single $5 \times d$, Multiple $10 \times d$

Reference standard: ISO19642,MIL-DTL-17H 2005,SAEUSCAR

Conductor material: copper clad steel

Insulation material: Polypropylene, cross-linked polyethylene

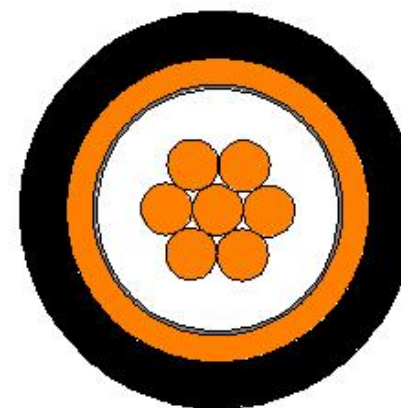
Braided Shield: Tinned copper wire

Sheath Material: PVC

Product Introduction

The American standard coaxial cable RG174LL based on MIL-DTL-17H standard is used for end analog signal transmission such as rearview imaging and radar in vehicles. Compared with other vehicle data cables, it has the advantages of light weight and low cost. The 105°C-class RG174, as an improved version of the 85°C type, can adapt to more usage environments.

Slice diagram



Product structure

Specification	Conductor O.D. mm	Insulation material	Insulation O.D. mm	Aluminium foil shielding	Braided shield coverage %	Outer diameter mm
LY174LL(xx)-50	7/0.16	Polypropylene	1.52±0.05	AL/PETP/AL	85min	2.80±10
LY174LL(xx)-50	1/0.45	XL-PE	1.52±0.05	AL/PETP	85min	2.80±10

Note:XX is the running number

Slice diagram

Product structure

Specification	Conductor O.D. mm	Insulation material	Insulation O.D. mm	Aluminium foil shielding	Braided shield coverage %	Outer diameter mm
LY-462(xx)-50	7/0.16	XL-PE	1.52±0.05	AL/PETP/AL	80min	2.80±10
LY-462(xx)-50	7/0.16	Polypropylene	1.52±0.05	AL/PETP/AL	80min	2.80±10

Note:XX is the running number

Note:XX is the running number

Note:XX is the running number

Note:XX is the running number

Note:XX is the running number

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Note:XX is the running number

Note:XX is the running number

Note:XX is the running number

Note:XX is the running number

The coaxial cable LY-462 based on ISO 19642 standard has the characteristic of low signal attenuation, and is used for end analog signal transmission such as in-vehicle communication and radar. Compared with other vehicle data cables, it has the advantages of light weight and low cost. The 105°C-class LY-462, as an improved version of the 85°C type, can adapt to more usage environments.

COAXIAL CABLE

RTK031 6G transmission coaxial cable

Product description

Product name: RTK031

Temperature rating: -40°C~85°C to -40°C~105°C

Rated voltage: 60V

Bending radius: Single $5 \times d$, Multiple $10 \times d$

Reference standard: ISO19642,MIL-DTL-17H 2005,

Conductor material: Bare copper

Insulation material: Foamed Polypropylene

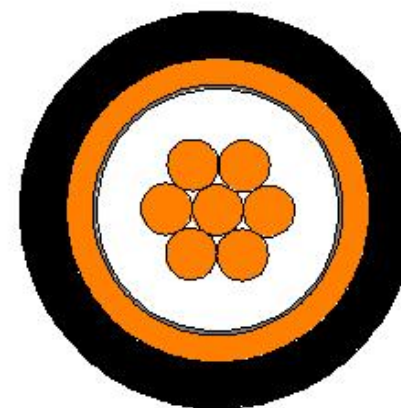
Braided Shield: Tinned copper

Sheath Material: PVC

Product Introduction

The American standard coaxial cable RTK031 based on MIL-C17 standard was initially specially designed for connecting in-vehicle antenna systems. Meanwhile, it can meet the requirements for transmitting high-definition rearview imaging, video and other signals in vehicles. It features excellent high-frequency transmission performance, and the 105°C grade endows RTK031 with a broader range of application scenarios.

Slice diagram



Product structure

Specification	Conductor O.D. mm	Insulation material	Insulation O.D. mm	Aluminium foil shielding	Braided shield coverage %	Outer diameter mm
RTK031(xx)-50	7/0.27	Foamed Polypropylene	2.10±0.05	AL/PETP/AL	90min	3.30±10
RTK031(xx)-50	7/0.254	Foamed Polypropylene	2.05±0.05	AL/PETP/AL	90min	3.30±10

Note:XX is the running number

Slice diagram

Product structure

Specification	Conductor O.D. mm	Insulation material	Insulation O.D. mm	Aluminium foil shielding	Braided shield coverage %	Outer diameter mm
RTK044(xx)-50	1/0.86	Foamed Polypropylene	2.40±0.05	AL/PETP/AL	90min	3.55±10
RTK044(xx)-50	1/0.86	Foamed Polypropylene	2.35±0.05	AL/PETP/AL	90min	3.35±10

Note:XX is the running number

Note:XX is the running number

Note:XX is the running number

Note:XX is the running number

Note:XX is the running number

Note:XX is the running number

Note:XX is the running number

Note:XX is the running number

Note:XX is the running number

Note:XX is the running number

The American standard coaxial cable RTK-044 based on MIL-DTL-17H standard is used for end analog signal transmission such as rearview imaging and radar in vehicles. Compared with other vehicle data cables, it has the advantages of light weight and low cost. The 105°C-class RTK-044, as an improved version of the 85°C type, can adapt to more usage environments.

ETHERNET DATA CABLE

100M UTP Ethernet data cable

Product description

Product name: UTP Ethernet data cable
Temperature rating: -40℃~105℃, -40℃~125℃
Rated voltage: DC 60V
Reference standard: ISO19642, DIN EN 13602、TC9
Conductor material:
Stranded copper alloy wire bare\Stranded copper wire bare
Insulation material: Polypropylene
Sheath Material: TPE-S

Product Introduction

Designed for automotive Ethernet bus systems, this solution aims to provide a flexible and scalable Ethernet wiring architecture. It enhances vehicle safety and comfort while enabling infotainment features, significantly reducing in-vehicle network complexity and wiring costs.

Slice diagram



Product structure

Specification	Conductor O.D. mm	Insulation material	Insulation O.D. mm	Aluminium foil shielding	Sheath material	Outer diameter mm
LY-546	7/0.254	Polypropylene	1.26±0.05	/	TPE-S	3.80±10

ETHERNET DATA CABLE

1000M Ethernet data cable

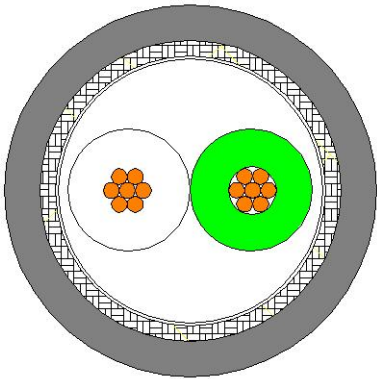
Product description

- Product name: STP Ethernet data cable
- Temperature rating: -40°C~105°C
- Rated voltage: DC 60V
- Reference standard: ISO19642, DIN EN 13602 , TC9
- Conductor material: Stranded copper alloy wire bare ,stranded copper wire tin plated
- Insulation material: Polypropylene
- Braided Shield: Tinned copper wire
- Sheath Material: PVC

Product Introduction

Tinned copper is used for the Ethernet bus of automotive systems, aiming to obtain a flexible and scalable Ethernet wiring solution that can improve the safety and comfort of vehicles, provide information and entertainment, and significantly reduce the complexity and wiring costs of the vehicle's internal network. Replacing the CAN bus and serving as the best supporting bus for 5G communication, the 1000M Ethernet data cable is the latest version, providing a completely suitable choice for 5G data transmission for the Internet of Vehicles.

Slice diagram



Product structure

Specification	Conductor O.D. mm	Insulation material	Insulation O.D. mm	Mid-Quilt Material	Aluminium foil shielding	Braided shield coverage %	Sheath material	Outer diameter mm
LY-647-4	7/0.154	Polypropylene	0.95±0.05	Polypropylene	AL/PETP/AL	85min	PVC	4.10±10

ETHERNET DATA CABLE

STP-10000M Ethernet data cable

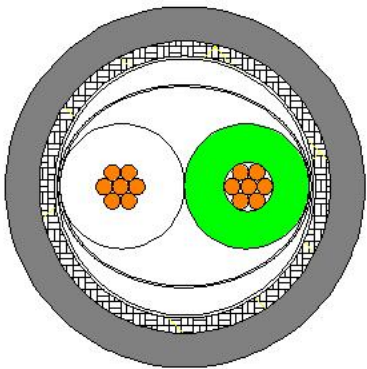
Product description

- Product name: 10000M Ethernet data cable
- Temperature rating: -40°C~105°C
- Rated voltage: DC 60V
- Reference standard: ISO19642, DIN EN 13602, TC9
- Conductor material: Stranded copper wire tin plated
- Insulation material: Foamed Polypropylene
- Braided Shield: Tinned copper wire
- Sheath Material: TPE-S,PVC

Product Introduction

Designed for automotive Ethernet bus systems, this solution aims to deliver a flexible and scalable Ethernet wiring architecture. It enhances vehicle safety and comfort while enabling advanced infotainment features, significantly reducing in-vehicle network complexity and cabling costs. The 10,000M Ethernet data cable represents the latest iteration, providing a future-proof solution that fully supports 10Gbps data transmission for connected vehicle applications.

Slice diagram



Product structure

Specification	Conductor O.D. mm	Insulation material	Insulation O.D. mm	Aluminium foil shielding	Braided shield coverage %	Sheath material	Outer diameter mm
LY-686-3	7/0.16	Foamed Polypropylene	0.95±0.05	AL/PETP/AL	85min	PVC	3.80±10

Class		Type	Rating Temperature	Cross Section	Insulation Material
GeneralWire		FLRY	-40~105℃	0.13-95	PVC
		FLUY	-40~105℃	0.13~2.5	PVC
		FLY	-40~105℃	0.5-120	PVC
		FLR2X	-40~125℃	0.13-95	XLPE
		FLR21X	-40~125℃	0.13-6.0	XLPE
		FLR9Y	-40~125℃	0.22-35	XLPE
		FLR91X	-40~150℃	0.13-95	150CXLPE
SpecialMaterial		FLR6Y	-40~200℃	0.13-6.0	FEP
		FLU6Y	-40~200℃	0.13-6.0	FEP
		FLR7Y	-40~175℃	0.35-6.0	ETFE
		FLR11Y	-40~125℃	0.35-95	PU
		FLR13Y	-40~125℃	0.22-6.0	TPE-E
		FLR31Y	-40~125℃	0.22-95	TPE-S
		FLRYY	-40~105℃	0.13-6.0	PVC/PVC
Sheathed Cable		FLRYYW	-40~105℃	0.22-6.0	PVC/PVC
		FLRYWYW	-40~105℃	0.22-6.0	PVC/PVC
		FLRYYF	-40~105℃	0.13-6.0	PVC/PVC
		FLRY11Y	-40~105℃	0.13-6.0	PVC/PU
		FLRYY11Y	-40~105℃	0.13-6.0	PVC/PVC/PU
		FLR9Y12Y	-40~100℃	0.22-6.0	PP/TPEE
		FLR31Y11Y	-40~105℃	0.22-6.0	TPE-S/PU



Latest Product Features

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25G SPP-10000M Ethernet data cable

Product description

Specifications: LY686-25G

26WG×2C+Cover+AB

Conductor : 7/0.17 TA nom.

Insulation: Foam Polypropylene

Insulation OD: 1.26 nom.

Shield: QPET+AL/PET

Braid Shield: 16/6/0.10 nom.

Jacket OD: PVC 3.8±0.20mm

Operating Temperature: -40°C+105°C (ISO 19642 ClassB)

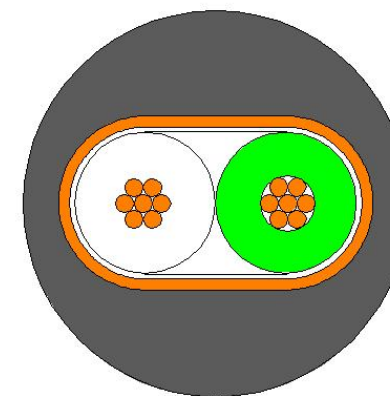
Bending radius: Single 5 x d , Multiple 15 x d

Impedance: 100±3Ω

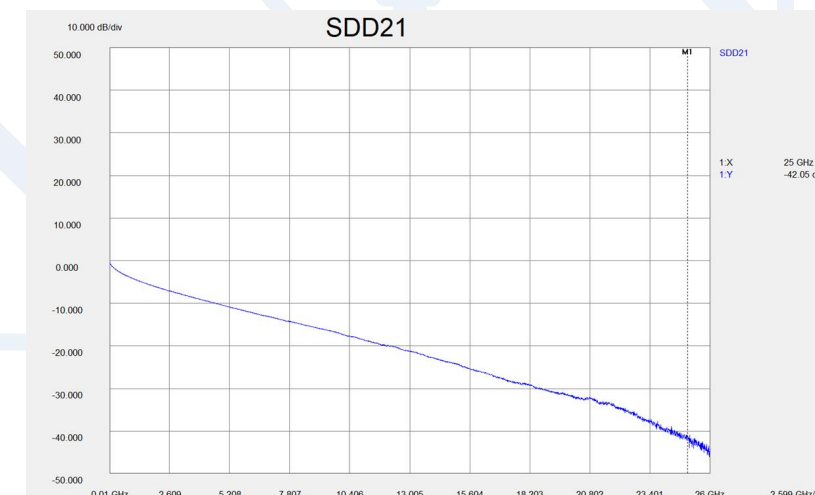
Product Introduction

25G Ethernet provides higher data transmission rates to meet the needs of large data volume transmission. Compared with traditional communication technologies, 25G Ethernet has lower latency, making it suitable for real-time data processing. It ensures the stability and reliability of data transmission through redundant design and error correction mechanisms. Supporting multiple communication protocols and standards, it adapts to the requirements of different application scenarios. 25G Ethernet can provide high bandwidth to support multimedia applications in intelligent cockpits, such as high-definition maps, 3D navigation, virtual reality (VR), and augmented reality (AR), etc.

Slice diagram



Product structure



STP 8000M Ethernet data cable

Product description

Specifications: LY686-3 26WG×2C+AB

Conductor : 7/0.17 TA nom.

Insulation: Foam Polypropylene

Insulation OD: 1.25 nom.

Shield: AL/PET

Braid Shield: 16/7/0.10 nom.

Jacket OD: PVC 3.80±0.20mm

Operating Temperature: -40°C+105°C (ISO 19642 ClassB)

Bending radius: Single 5 x d , Multiple 15 x d

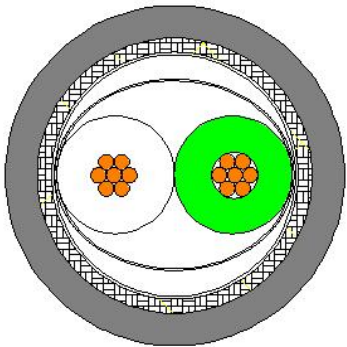
Impedance: 100±5Ω

Product Introduction

The main application scenarios of Gigabit automotive Ethernet include autonomous driving, intelligent cockpits, vehicle networking, and vehicle control, etc.

With the acceleration of automotive intelligence and connectivity, traditional CAN buses have struggled to meet the requirements of high real-time performance and large bandwidth. Gigabit automotive Ethernet, with its advantages of high reliability, low latency, and strong scalability, has become the core infrastructure of the new generation of in-vehicle networks. In terms of vehicle control, it can support real-time data exchange for key components such as engine control, braking systems, and steering systems, ensuring the stable operation and safety of vehicles.

Slice diagram



Product structure

MHz	100	400	600	1000	2000	3000
dB/M	0.51	0.99	1.21	1.56	2.26	2.82
MHz	4000	5000	6000	7000	7500	8000
dB/M	3.32	3.79	4.22	4.64	4.90	5.03

STP Soft Ethernet data cable

Product description

Specifications: LY686-3 26WG×2C+AB

Conductor: 7/0.16 TA nom.

Insulation: Foam Polypropylene

Insulation OD: 1.0 nom.

Insulation material: Polypropylene

Shield: AL/PET

Braid Shield: 16/7/0.10 nom.

Jacket OD: TPE-S 3.80±0.20mm

Operating Temperature: -40°C+105°C (ISO 19642 ClassB)

Bending radius: Single 5 x d , Multiple 15 x d

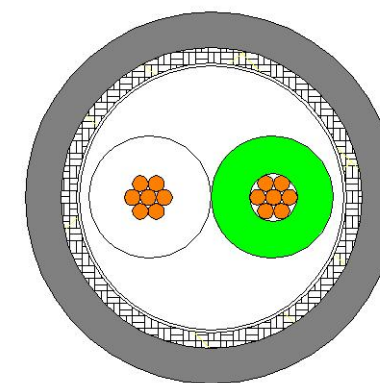
Impedance: 100±5Ω

Product Introduction

The main application scenarios of Gigabit automotive Ethernet include autonomous driving, intelligent cockpits, vehicle networking, and vehicle control, etc.

With the acceleration of automotive intelligence and connectivity, traditional CAN buses have struggled to meet the requirements of high real-time performance and large bandwidth. Gigabit automotive Ethernet, with its advantages of high reliability, low latency, and strong scalability, has become the core infrastructure of the new generation of in-vehicle networks. In terms of vehicle control, it can support real-time data exchange for key components such as engine control, braking systems, and steering systems, ensuring the stable operation and safety of vehicles.

Slice diagram



Product structure



RG174LL-10G coaxial cable

Product description

Specifications: RG174LL 26WG×1C+DAB
Conductor : 7/0.16 BCCS nom.
Insulation: Polypropylene
Insulation OD: 1.52 nom.
Shield: Al-PET-Al

Braid Shield: 16/5/0.10TD nom.
Jacket OD: PVC 2.80±0.10mm
Operating Temperature: -40°C+105°C (ISO 19642 ClassB)
Bending radius: Single 5 x d , Multiple 15 x d
Impedance: 50±3Ω

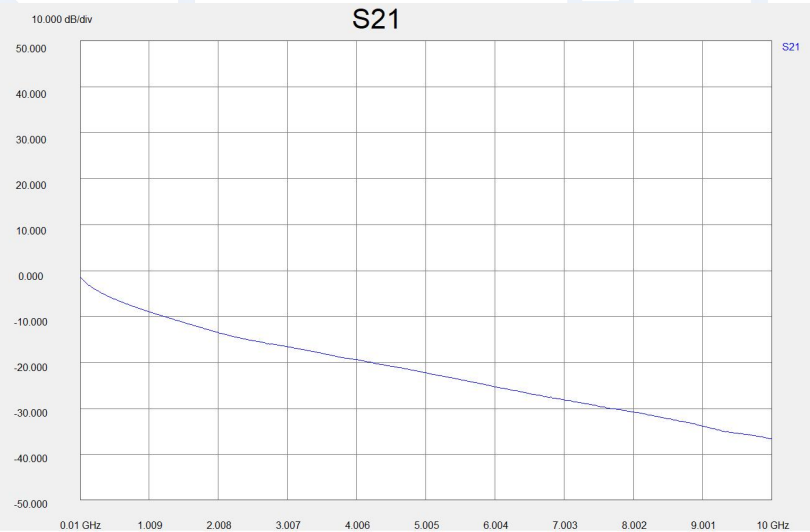
Product Introduction

Mainly used for vehicle signal transmission connection lines, such as automotive antennas, GPS, rearview imaging, dash cams, radars, etc.

Product structure

MHz	100	200	400	500	600	750	800	1000	1200	1500	1800	2000
dB/100M(Nom.)	27.6	38.6	53.2	60.5	66.9	76.5	78.6	88.0	97.3	109.5	121.0	128.6
MHz	2200	2250	2500	2800	3000	3500	3750	4000	4500	5000	5500	6000
dB/100M(Nom.)	136.8	138.5	147.4	156.7	161.7	175.0	181.0	187.0	201.0	213.0	226.0	238.0
MHz	6500	7000	7500	8000	8500	9000	9500	10000				
dB/100M(Nom.)	251.0	264.0	277.0	290.0	303.0	316.0	329.0	342.0				

Product structure



RTK031-10G coaxial cable

Product description

Specifications: RTK031 22WG×1C+DAB
Conductor: 7/0.27 AS nom.
Insulation: Foam-Polypropylene
Insulation OD: 2.10 nom.
Shield: Al-PET-Al

Braid Shield: 16/7/0.10TD nom.
Jacket OD: PVC 3.30±0.10mm
Operating Temperature: -40°C+105°C (ISO 19642 ClassB)
Bending radius: Single 5 x d , Multiple 15 x d
Impedance: 50±3Ω

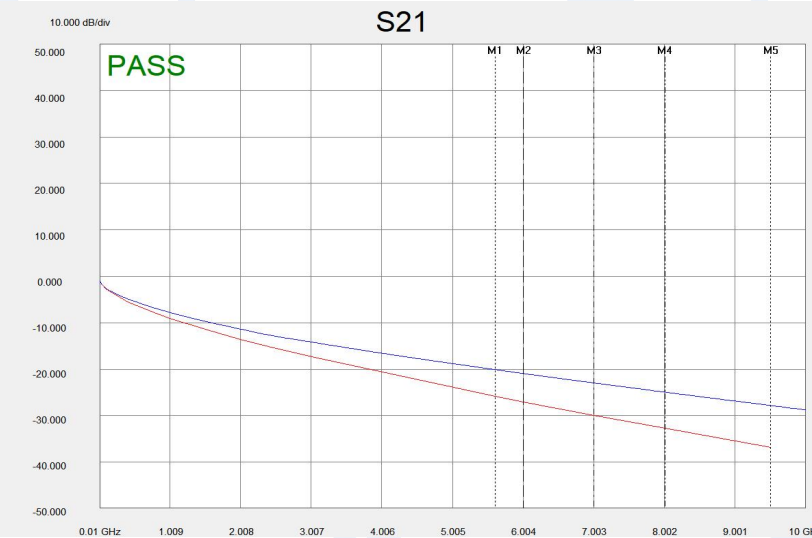
Product Introduction

Mainly used for vehicle signal transmission connection lines, such as automotive antennas, GPS, rearview imaging, dash cams, radars, etc.

Product structure

MHz	200	400	800	1000	1200	1500	1800	2000	2800
dB/100M(Nom.)	17.9	36.3	53.0	60.1	66.7	78.0	84.7	90.2	110.7
MHz	3000	3500	4000	4500	5000	5500	5600	6000	6500
dB/100M(Nom.)	115.5	127.2	138.4	149.2	159.7	170.0	172.0	179.9	190.4
MHz	7000	7500	8000	8500	9000	9500	10000		
dB/100M(Nom.)	200.9	211.4	221.9	232.4	242.9	253.4	263.9		

Product structure



THANK YOU

领亚电子科技股份有限公司

LINOYA ELECTRONIC TECHNOLOGY CO., LTD