

The best partner of innovative modules
base on precision machining

E-Catalogue _____

**Precision Cable Assembly and
Antenna Design Solutions**

E-Catalogue
English Version

 **Wanshih Electronic Co., Ltd.**

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English Version

Precision Cable Assembly and Antenna Design Solutions

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Automotive Cables

Wanshih is a leading OEM/ODM automotive cable manufacturer in Taiwan and has the certification of IATF 16949. We provide optimized quality in automotive cable assembly and many other cable products.

In order to provide an optimized quality for clients, we pursue innovation by investing in automated production facilities. We are committed to providing the best solution and quality to our clients worldwide.

Certification



- IATF 16949:2016
- VSCC 19-1
- D-U-N-S Certified

Automotive Fuse Box Cables



Customizable assembly and processing based on customer requirements, with flexible selection of fuse specifications and solutions to ensure optimal circuit protection and system stability.

ADAS Around view cables



Supports HMTD, Mini Fakra, Fakra, and HSD lens connections, with high-frequency testing for electrical reliability. IATF 16949-certified, providing PPAP documentation.

Intelligent cockpit cables



Ultra-flexible, lightweight coaxial cables ensure high-speed transmission. Precision coaxial soldering (AWG 36-46, pitch 0.25-0.5mm) meets complex design needs.

Automotive Cable Solution →



ADAS SYSTEM

- FAKRA/HSD/HFM/HMTD
- Around view cable
- Hirose Cable / mmWave / Wireless Charging Cable
- Reversing camera cable
- Blind Spot Detection Harness

CENTRAL CONTROL SYSTEM / INTELLIGENT COCKPIT

- HUD head-up display cable
- LCD dashboard cable
- Central control system cable
- Host cable
- TBOX cable
- Rear seat (entertainment system) cable (LVDS)
- Wires for unmanned drive systems
- Engine ECU wire module

ELECTRIC VEHICLE POWER CABLE

- Battery management system cable
- Battery host cable
- High voltage cable
- Commercial vehicle battery cable
- Jumping cable



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ODM Antenna



Wanshih specializes in ODM antennas for 5G, 6G, Wi-Fi 6, and LEO (Low Earth Orbit) satellite systems. Our CTIA (Cellular Telecommunications and Internet Association)-certified 3D anechoic chamber ensures precise RF testing and superior quality.

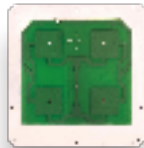
With innovative design, semi-automated production, and cost-efficient processes, we deliver reliable, scalable solutions for advanced communication and space technologies, strengthening our role in the global supply chain.

Internal



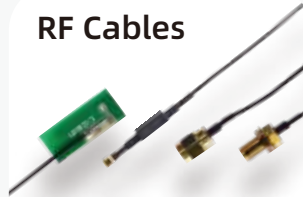
MIMO Antenna module
ODM/OEM

Outdoor



High-gain antennas
ODM/OEM

RF Cables



SMA, BNC, N-TYPE with
RF CABLE

External



LTE ALL BAND
WIFI & WIFI 6E
SUB 6G

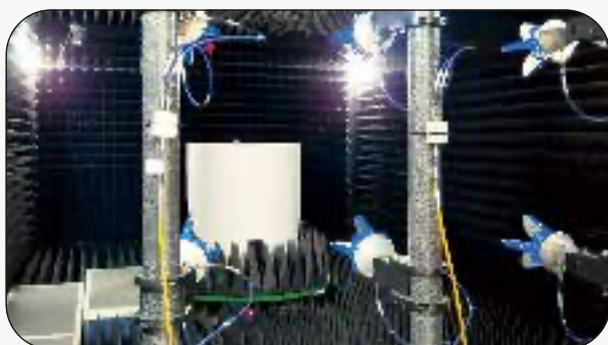
ODM Antenna Solution →

- Smart Gateway
- Wifi Mesh Range Extender
- ODU 5G @ Sub-6
- 5G Core Network



- Two-way Wireless Communication
- External LTE Antenna
- Built-in PCB Antenna

We provide OTA / Throughput Testing Service for our customers



OTA

Receive Antenna
0.6 GHz ~ 8.5 GHz

Flat Panel Antenna
0.45 GHz ~ 8.5 GHz

Passive Test

- Antenna efficiency
- Antenna gain
- 2D / 3D Radiation Pattern

Active Test

- GSM / WCDMA / TE / Wi-Fi
- TRP
- TIS

Throughput

Receive Antenna
8T8R 2 GHz ~ 18 GHz

Active Test
IEEE 802.11 a/b/g/n/ac/ax



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High Frequency External Cables

Certification ↓



USB 4.0

Custom high-frequency cable assemblies with extensive verification experience, ensuring superior signal integrity.



HDMI Cable

Supports HDMI with micro coaxial cables.
Custom lengths available to meet specific requirements.



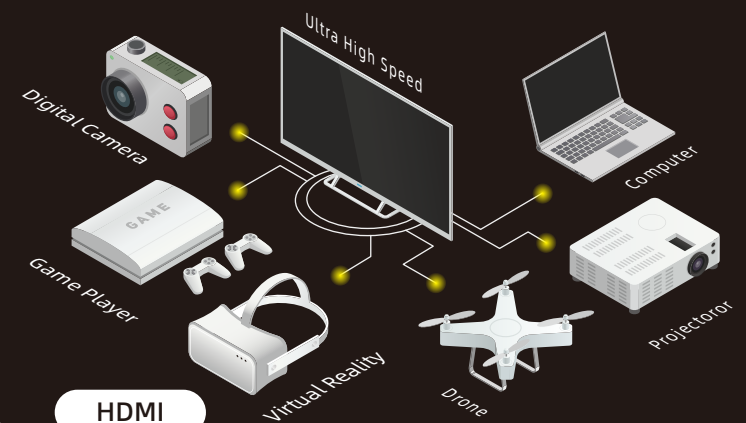
Wanshih has passed the official certification and authorization of USB and HDMI. The certified USB4 is designed with a 30AWG coaxial, which has more stable signal transmission and more effective reduction interference;

HDMI has low EMI, which can reduce the interference of nearby wireless devices. The bandwidth can reach to 48Gbps ultra-high transmission and supports more advanced audio formats and provide excellent audio and video signal.

High Frequency Cables



USB



HDMI



Support High-Speed Data Transmission

Extremely light and soft coaxial
HDMI cable



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Information Center Server Customize Cable Solution For High-Frequency Cable

Features of High-Frequency Cable

Wanshih delivers low-loss, high-speed cables for AI servers, data centers, and cloud computing, supporting MCIO, PCIe Gen5/-Gen6, Mini SAS, SFP+, QSFP-DD, and OSFP with precision manufacturing and rigorous testing.

Pioneering the Era of High-Frequency Cable Processing

Wanshih stands out with its excellent processing technology. We are able to reach PCIe 5.0 and 6.0 levels, and have transmission cable with excellent shielding performance and signal stability. This means more efficient and stable data transmission, while greatly reducing the error rate during data transmission.

- Energy-efficient transmission capabilities
- Low latency response speed and performance
- Excellent shielding performance ensures the stability and reliability of data signals
- Outstanding durability, stable operation for a long time
- Compatible with various commonly used interfaces and protocols, integrated services providing more choices



Efficient
production



High
Stability



Quality
Assurance

PCIe 5.0 ↑

PCIe 6.0/5.0



Riser CEM Cable

MCIO



Supports Gen5/Gen6 with 0.6mm pitch and 1.57mm PCB thickness. Available in multiple configurations, reducing signal loss by 0.6dB.

DirectAttached™ CEM



- Supports Gen5/Gen6
- 1.0mm pitch
- Direct cable connection eliminates PCB trace loss, improving signal integrity by 0.5dB to 1.0dB

Slim SAS



- SAS-4 compliant (24Gbps), supports PCIe-4
- Durable latch for secure internal connections
- Available in straight, right-angle, and side-exit configurations

SFP+ / QSFP / QSFP-DD / OSFP



- Supports 10-800Gbps data rates
- Hot-swappable design reduces system downtime
- Compatible with standard SFP slots



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Medical Cables

Wanshih is a medical cable assembly supplier with 35 years of manufacturing experience. We have passed ISO 13485 and met ISO 10993 biocompatibility. We commit best quality and provide one-stop customized cable solutions in medical application and providing one-stop customized cable solutions in medical applications.

In medical cable, Wanshih can process cables with an OD less than 0.8mm, and the precision welding of lenses can reach 1.2x1.2mm. The precision is higher than the industry standard, and provide total solutions for customers.

Certification →

- ISO13485
- ISO 10993

Non-invasive cables



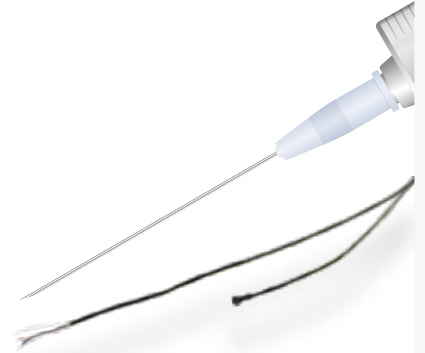
Designed for high-bend durability, advanced EMI shielding, and custom PCB module integration for premium medical applications.

Machine cables



High flexibility, precise impedance control, and superior shielding. Ideal for compact, high-performance medical and industrial applications.

Micro endoscope cables



Customizable micro lens assemblies with precision welding down to 1.0 × 1.0mm, ensuring exceptional imaging quality.

Medical Cable Solution ↓

MRI Examination /
Computed Tomography (CT)

Testing Equipment
Monitor

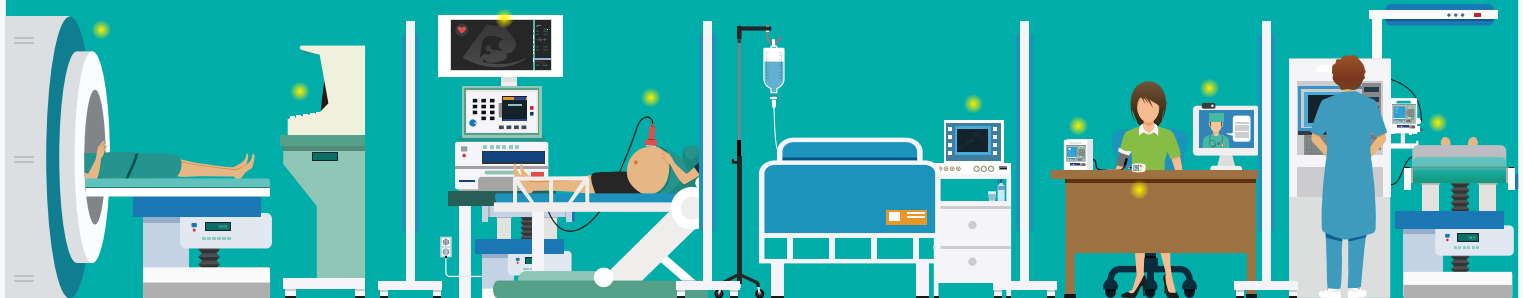
Ultrasound

EGC

Physiological Examination /
Blood Glucose Machine

Telephoto
Lens

Micro Lens
Endoscope



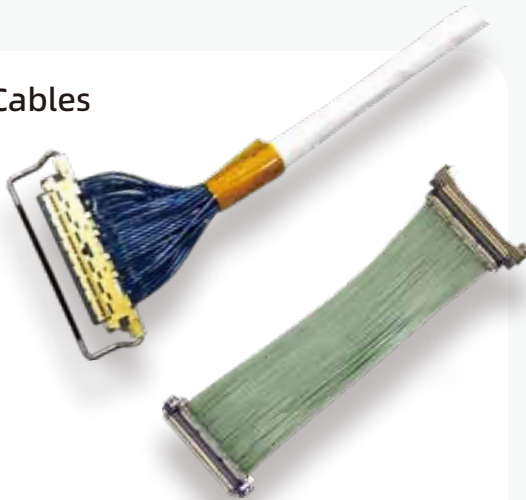


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Surveillance Cables

With extensive experience in security products, Wanshih offers comprehensive solutions, including custom waterproof designs, high-frequency transmission, and anti-interference capabilities. We ensure strict quality control to deliver durable and reliable cable assemblies.

Internal Cables



- Flexible, thin coax for easy bending in confined spaces
- Self-developed equipment capable of processing #46 coax assemblies

Waterproof Cables



- TPU jacket
- IP67-rated waterproofing cable

Surveillance Cable Solution →





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New Energy Market Customize Cable Solution For Energy Storage System

Energy Storage System Ensures Stable Power Output

Solar and wind energy do not provide continuous and stable power supply. When energy is abundant, the energy storage system can store excess energy and release it when needed to ensure stable power supply.

At the same time, batteries play a key role because a large number of batteries are needed to store energy to achieve stable power supply, improve energy utilization efficiency, and reduce carbon emissions.

Your Best Partner for Success in the New Energy Market

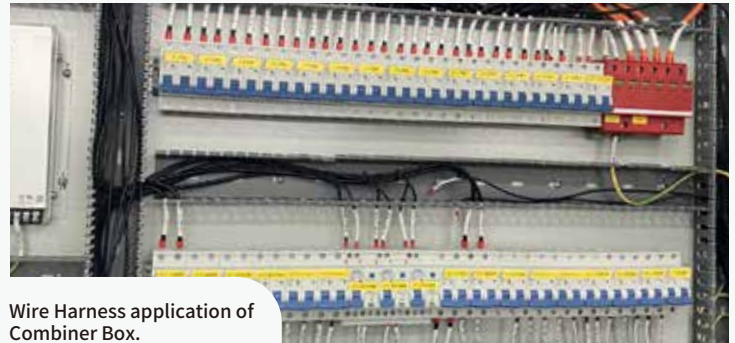
Wanshih provides customize energy storage cable designs and has 35 years of assembly experience. Our energy storage cable technology can be applied to power conversion, battery management systems, cabinets and other fields.

Our energy storage cable has the ability to produce 95mm², and the passing current can be as high as 350A. The reliability part is tested through a 500kg pulling force and temperature rise detection instrument, to improve product quality and consolidate Wanshih's professional cable assemble capabilities in high-performance battery pack wire harnesses.

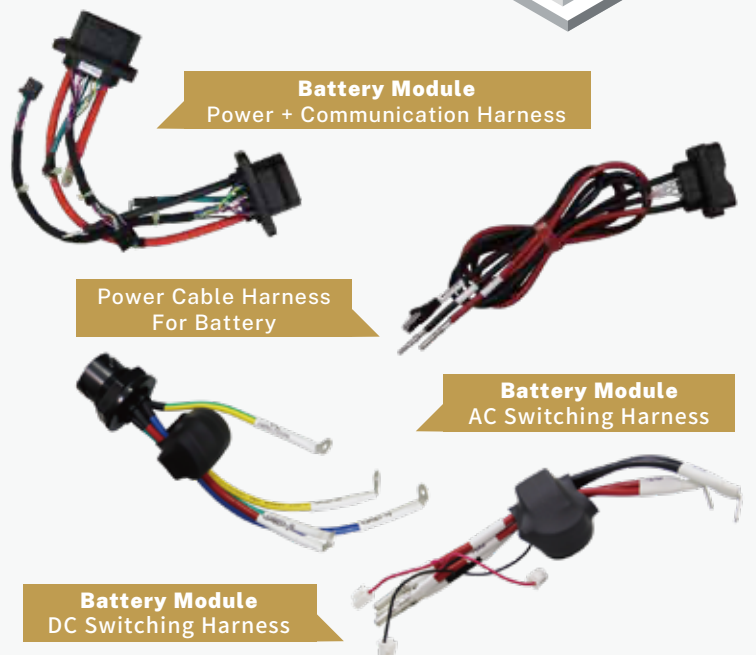
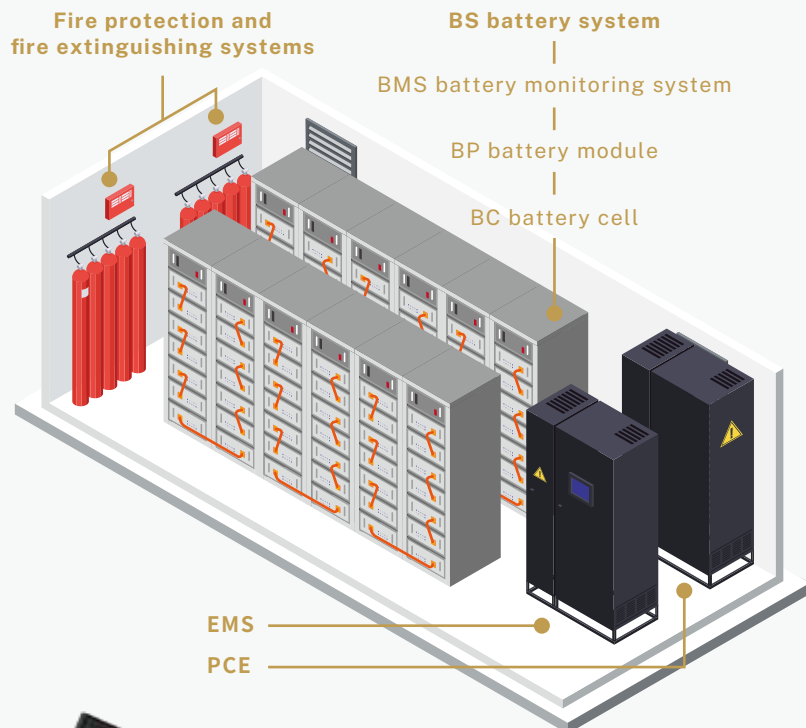
Our products will ensure the reliability and efficiency of your system and help you stand out in the new energy market.



SANCO High Voltage
Connector Cable



Wire Harness application of
Combiner Box.



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Wanshih Electronic Co., Ltd.

Wanshih, founded in 1987 as a joint venture between Wonderful Hi-Tech and Japan's Asahi Tsushin, specializes in advanced cable manufacturing with almost 40 years of expertise. We provide ODM/OEM solutions across multiple industries, focusing on internal wiring, signal cables, antennas, and SMT modules. With AI-driven production and global facilities, we ensure top-quality, flexible manufacturing, and efficient logistics from our Taipei headquarters.

Your professional ODM/OEM partner



Automotive



Security



High
Frequency



Energy
Storage



Industrial



Medical

Certification



QC080000: 2012
Hazardous Substance
Management System



ISO9001: 2015
Quality
Management



ISO14001: 2015
Internal
Management



Philips SGS PASS
Review by SER

OHSAS18001: 2007
Health and safety
management system

ISO13485: 2016
Medical Equipment
Certificate

IATF16949: 2016
Automobile
Certificate

Lightning Cable
MFI Certificate

QC080000: 2012
Dangerous Substance
Certification

SONY SS-00259
GP Certificate

SONY
GREEN PARTNER

USB 3.1
TID Certificate

Dell commissioned
TUV EICC Verification

CCEE
Safety Certificate

Technological Superiority



Customization

Waterproof, flexible, pressure and
heat-resistant custom cable
solutions.



Manufacturing

Produced in ISO 7 cleanrooms
with automated product lines, our
medical-grade cables meet
international quality standards.



Quality Control

Tested/verified to meet ISO
international quality standards.



Testing Lab

CTIA-certified RF 3D anechoic
chamber with strict quality
control and multiple layers of
inspection.

Global footprint



HEADQUARTER

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