



# Smart Connectivity

智慧連接

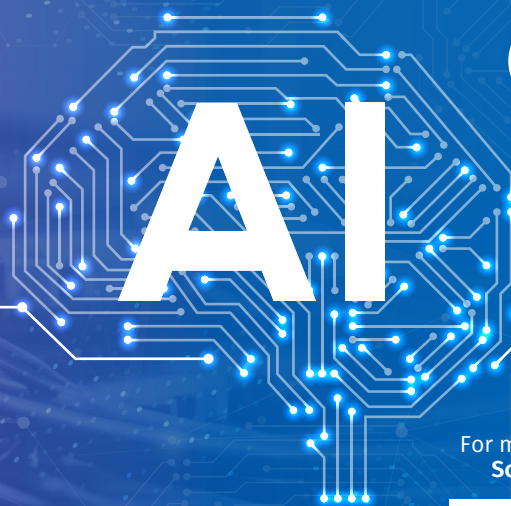
六大應用線材型錄



**Wonderful Hi-Tech Co., Ltd.**



# Connect AI with WONDERFUL Cables



For more info  
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## Datacom

### LAN Cable Certificate

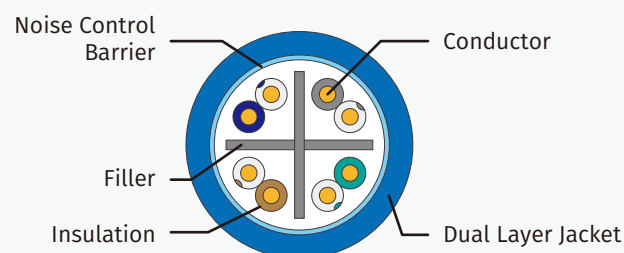
◆ Blue point: with 3P POE++ certificate

◆ Red point: with UL-LP certificate

| No. |        | Cable Type |                  | PVC | LSOH | CM | CMR | CMP |
|-----|--------|------------|------------------|-----|------|----|-----|-----|
| 1   | Cat.8  | 22AWG      | S/FTP            | ◆   |      | ◆  | ◆   | ◆   |
| 2   | Cat.8  | 26AWG      | S/FTP            | ◆   |      | ◆  | ◆   |     |
| 3   | Cat.7A | 22AWG      | S/FTP            |     |      |    | ◆   | ◆   |
| 4   | Cat.7A | 23AWG      | S/FTP            | ◆   | ◆    | ◆  | ◆   | ◆   |
| 5   | Cat.7  | 23AWG      | S/FTP            | ◆   | ◆    |    | ◆   | ◆   |
| 6   | Cat.6A | 23AWG      | U/UTP            | ◆   | ◆    | ◆  | ◆   | ◆   |
|     |        |            | U/UTP (Small OD) |     |      |    | ◆   | ◆   |
|     |        |            | F/UTP            | ◆   | ◆    | ◆  | ◆   | ◆   |
|     |        |            | S/FTP            |     | ◆    |    | ◆   | ◆   |
| 7   | Cat.6A | 28AWG      | U/UTP            |     | ◆    | ◆  | ◆   |     |
| 8   | Cat.6  | 22AWG      | U/UTP            |     |      |    | ◆   | ◆   |
| 9   | Cat.6  | 23AWG      | U/UTP            | ◆   | ◆    | ◆  | ◆   | ◆   |
|     |        |            | F/UTP            | ◆   | ◆    | ◆  | ◆   | ◆   |
| 10  | Cat.6  | 24AWG      | U/UTP            |     |      | ◆  | ◆   | ◆   |
| 11  | Cat.6  | 28AWG      | U/UTP            |     | ◆    | ◆  | ◆   |     |
| 12  | Cat.5e | 24AWG      | U/UTP            | ◆   | ◆    | ◆  | ◆   | ◆   |
|     |        |            | F/UTP            | ◆   | ◆    | ◆  | ◆   | ◆   |

### Small OD (VTP) Cat.6A

- Overall Noise Control Barrier brings excellent alien crosstalk blocking and small overall diameter.
- Cat.6A performance, smaller overall diameter, efficient use of pathways and spaces.
- CMP OD 8.0 (0.315 inch) → 6.4mm (0.252 inch)  
CMP OD 8.3 (0.326 inch) → 7.0mm (0.283 inch)



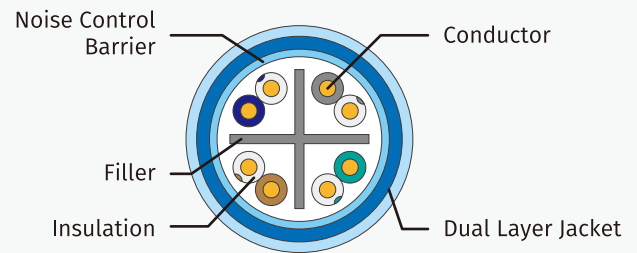
**Certification:** UV CMP-LP (0.6A) 120W, CMR-LP (0.5A) 100W

[www.wontex.com](http://www.wontex.com)

## CMX outdoor - CMP Cable

- Dual layer overall jacket.
- Designed for all-in-one indoor plenum and outdoor CMX cable.
- Can be pulled from the outdoors into the indoor directly.
- UTP(VTP) with Noise Control Barrier providing good protection from EMI noise.
- Cat.6 and Cat.6A performance.

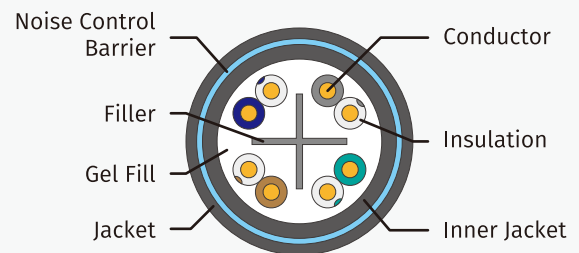
**Certification:** UL 444(E142890) CMX, CM, CMP, CMX outdoor, CMX outdoor-CM, CMX outdoor-CMP  
UL 13(E122980) CL2X, CL3X, CL2, CL3, CL2P, CL3P and PLTC



## UTP Cat.6A Direct Burial Cable

- Outdoor and direct burial purposes with gel-filled.
- Heavy pressure resistance and waterproof.
- Direct buried in smart green house, building to building applications.
- Dual-layer jacket with overall noise control barrier design to reduce alien crosstalk.

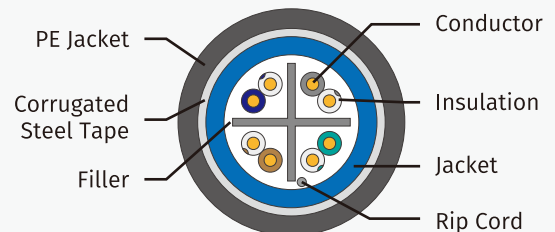
**Certification:** UV test 720HR, UL 13 Sec.35(crushinh test, 1000 lb)



## Steel sheath OSP Cable

- UTP Cat.5e and Cat.6 performance.
- Corrugated steel sheath with flame resistance PE outer jacket.
- Design for long term use on outside plant and direct burial applications.
- Resistant to sun exposure, heavy pressure, rat bites, and VW-1 flame resistance.

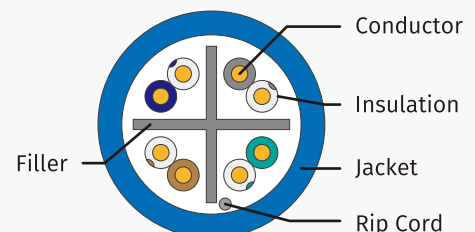
**Certification:** UL 444 CMX Outdoor (75°C, VW-1, uv res), UL13 Sec.35 (Crushing Test, 1000 lb )



## -40°C Weather Resistant Cable

Special jacket material and overall design can withstand -40°C @ 4Hr cold impact test.

**Certification:** UL CITS -40°C @ 4hr Cold impact (GR-3164)



**and more ...**



**Wonderful Hi-Tech**

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No. 72, Wugong 6th Road, New Taipei Industrial Park, Wugu District,  
New Taipei City, Taiwan



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# Green Energy

## Energy Storage Cable



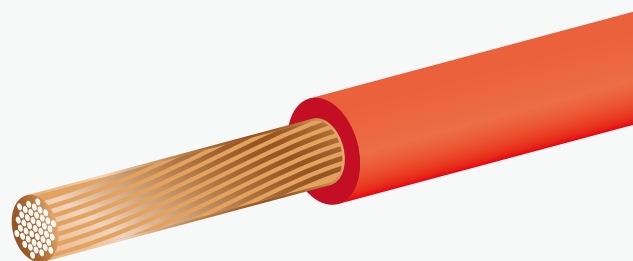
**Large current**  
8~120mm<sup>2</sup>



**High temperature rate**  
Silicon, rubber, TPE insulation



**Limited wiring space**  
Soft, thin copper, multiple cores



| AWM   | Insulation | Temp. | Voltage |
|-------|------------|-------|---------|
| 3932  | XLPE       | 125°C | 2000V   |
| 10183 | XL PVC     | 105°C | 1000V   |
| 10070 | PVC        | 105°C | 600V    |
| 10269 | PVC        | 105°C | 1000V   |
| 3135  | SR         | 200°C | 600V    |

## EV Charge Cable



**Insulation & Jacket by TPE**  
flexibility & durability



**90°C or 105°C**  
Temperature rate



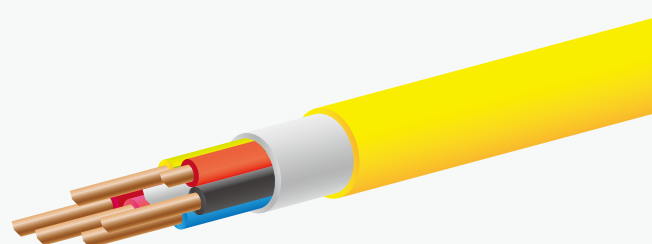
**2 ~ 18 AWG**  
Bare or Tinned copper



**Weather Resistant**  
Sunlight, -40°C cold bend



**Flame Resistant**  
VW-1



**UL 2263 EV Charge Cable**

[www.wontex.com](http://www.wontex.com)

## Solar Cable



-40°C ~ 90°C

Ambient temperature range



DC 1.5KV max



AC 1.0KV



25

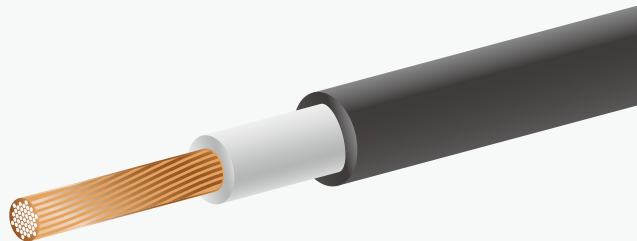
years life cycle



Weather Resistant



UV Resistant



UL PV Power Cable  
UL4703



TUV EN 50618:2014, H1Z2Z2-K  
1X1.5 MM<sup>2</sup>.....1X16 MM<sup>2</sup>

## Why Choose Us? Wonderful Hi-Tech Advantages



Multi-Site Manufacturing  
(Taiwan/China/Thailand/Vietnam)



Technical Support



CCCA, TIA, BICSI Member



Experienced OEM MFR



Products are certified by  
International Lab



Product Diversity

## Global Locations

Established: Taiwan @1978 | Taipei & Chungli



Taiwan HQ - Taipei  
WONDERFUL HI-TECH CO., LTD.

USA Offices - Los Angeles  
ABA INDUSTRY INC.

Thailand Factories - Bangkok  
THAI WONDERFUL WIRE CABLE CO., LTD.

Taiwan Factories - Chungli  
WONDERFUL HI-TECH CO., LTD.

China Factories - Dongguan  
WONDERFUL PHOTOELECTRICITY (DONG GUAN) CO., LTD.

Vietnam Factories - Hai Duong  
WONDERFUL (VIETNAM) WIRE & CABLE CO., LTD.



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# Industrial

## Robot Arm Cable

Industrial drag chain system, automatic production line, servo motor, logistics transmission equipment, numerical control machine.

2 to 20 million life times cycles.

Withstand 10 million times chain cycles without cracking and with a DCR increase of  $\leq 5\%$ .

### Feature



Flexibility &  
Bending / Torsion  
Resistant



Electromagnetic  
Interference  
Resistant



Oil  
Resistant



Heat  
Resistant

## FEP-FEP CMP Cable

FEP insulation, FEP jacket, foil shield with drain wire, CMP rating.

Designed for indoor and outdoor high temperature use, fireproof control cables.

NFPA 262 (CMP): temperature range:  $-40^{\circ}\text{C} \sim 200^{\circ}\text{C}$

### Feature



Flexibility &  
Bending / Torsion  
Resistant



Electromagnetic  
Interference  
Resistant



Oil  
Resistant



Heat  
Resistant



Chemical  
Resistant



Weather  
Resistant



Non  
Flammable

[www.wontex.com](http://www.wontex.com)



## CMX OUTDOOR-CMP Cable

Dual layer overall jacket.

All-in-one indoor plenum and outdoor CMX cable  
UTP(VTP) with Noise Control Barrier providing  
good protection from EMI noise.

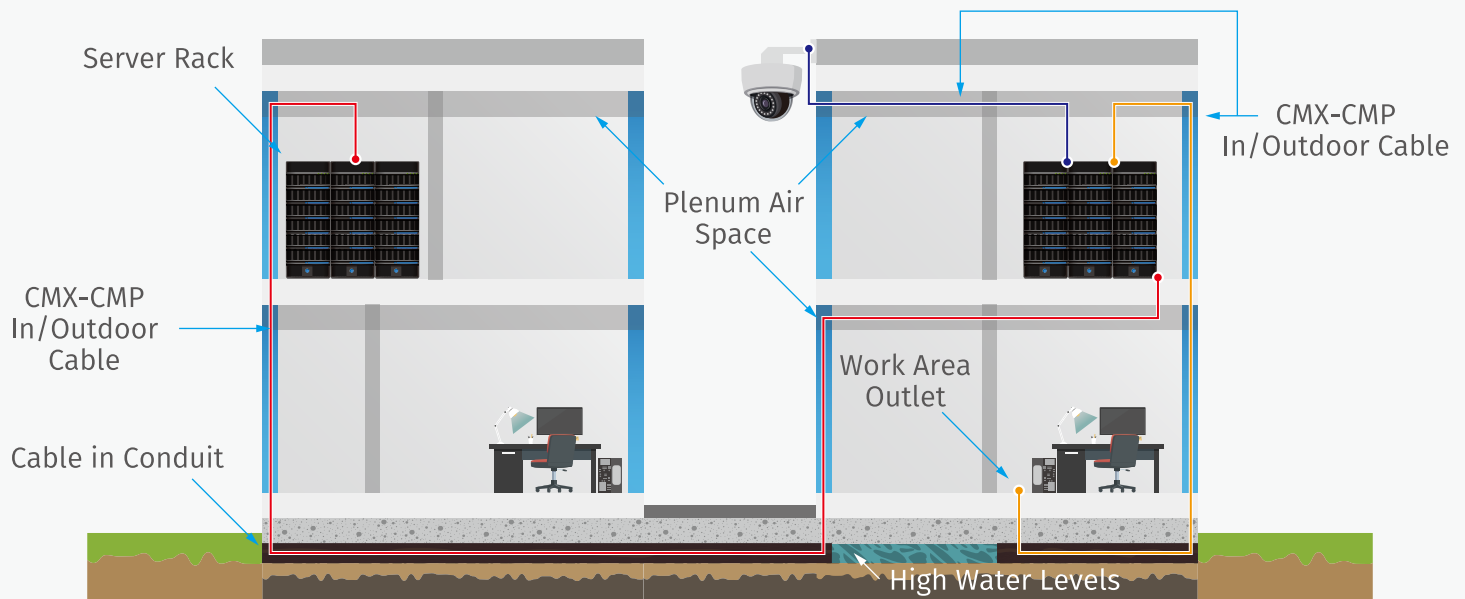
Supports Cat.6 and Cat.6A performance standards.



### Certification:

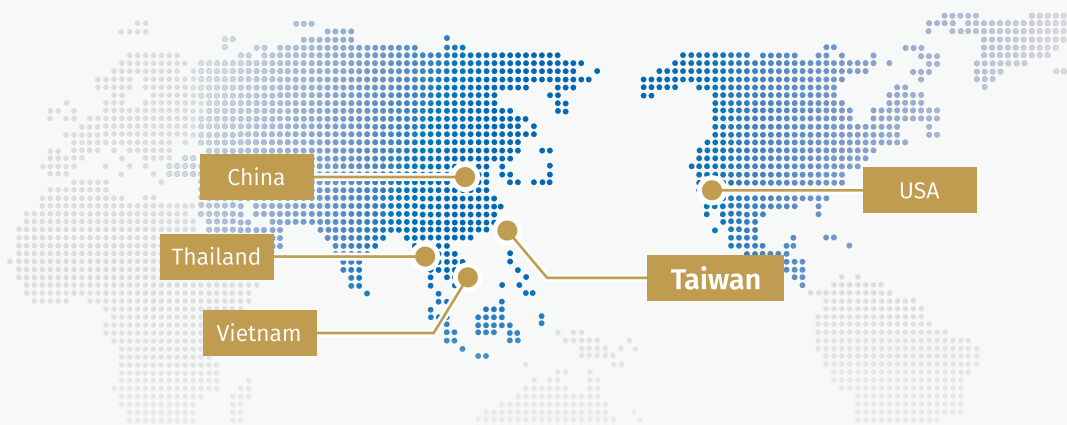
UL 444 (E142890): CMX, CM, CMP, CMX outdoor, CMX outdoor-CM, CMX outdoor-CMP

UL 13 (E122980): CL2X, CL3X, CL2, CL3, CL2P, CL3P and PLTC



## Global Locations

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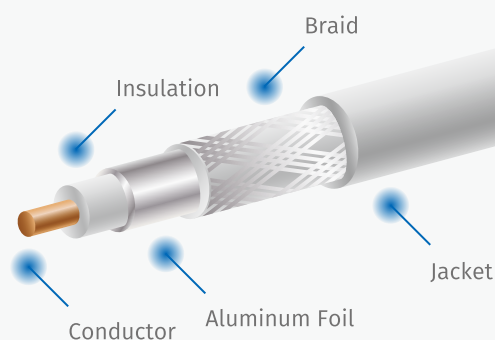
# Electrical

For more info  
Scan here!



## Coaxial Cable

- Provide reliable, high-quality signal transmission while ensuring the safety of the building's occupants in the event of a fire.
- BC or CCS conductor, Dual or Quad shield available.
- Cable designed for use in buildings with a plenum space or riser space.



### Applications



Data center



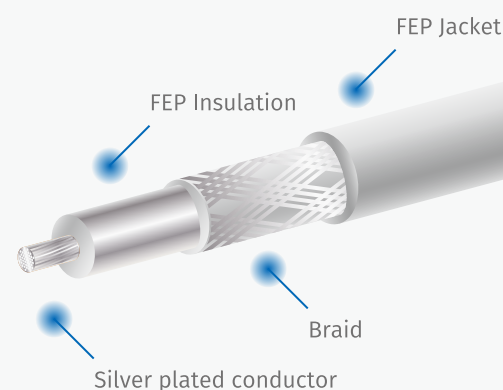
CCTV system



Networking applications

## RF Coaxial Cable

- Mini size, extremely flexible
- Silver plated conductors provide excellent attenuation stability and prevent conductor oxidation.
- Minimizing attenuation changes over time.



### Applications



Cellphone



Computer



Laptop



Wireless access point



GPS



Home appliances



Broadcast system

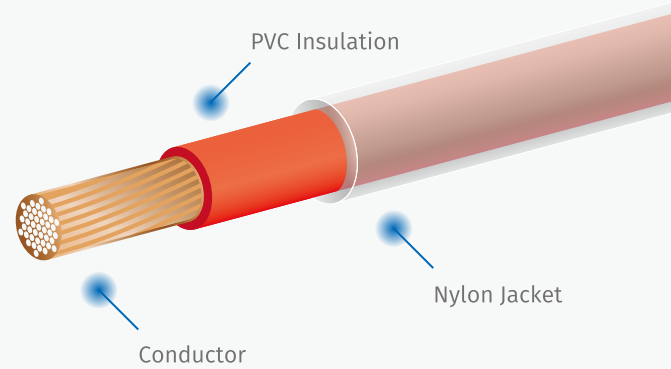
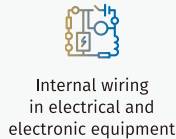
[www.wontex.com](http://www.wontex.com)



## Nylon wire (THHN/THWN)

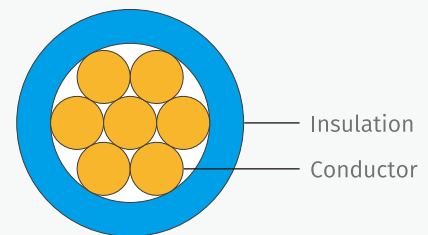
- Excellent corrosive resistance, oil and gasoline resistance.
- Abrasion resistance and heat resistance.
- Rated temperature: 90°C dry and 75°C wet.
- Rated voltage: 600V

### Applications



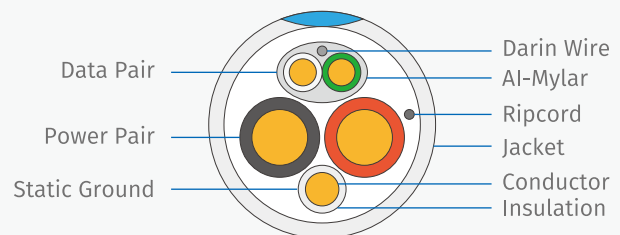
## High Temperature Wire

- Heat resistance, Oil resistance, Chemical resistance, Weather resistance, Non-flammable, Electrical stability.
- Temperatures ranging from -200°C to +250°C.
- **Certification:**  
FEP: UL style 1330,1331,1332,10064  
PFA: UL style 1726,1727, 10064,10231, 10362  
ETFE: UL style 1867, 10064, 10231
- **Application:** Chemical, electrical, automobile and medical applications



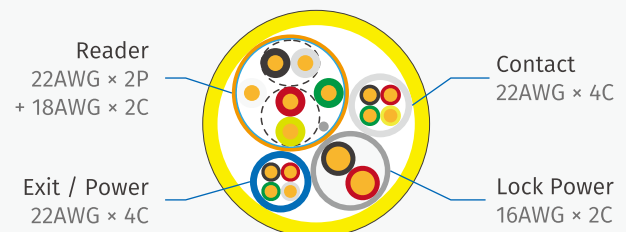
## Lighting Control Cable

- Riser and Plenum are available.
- **Certification:** CL3R, CMR / CL3R, CMP



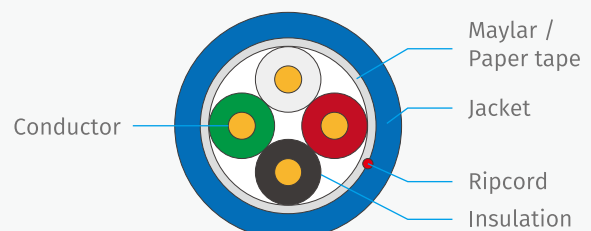
## Access Control Cable

- All in a single cable:  
Card Reader, Door Contact, Request to exit and lock power, device connectivity in a single cable.
- **Certification:** CMP & CMR 75°C 300V



## Speaker Cable

- For the electrical connections between speakers and amplifier sources.
- **Certification:** CM, CMR, CMP, CL2, CL3, CL3R, CL3P



and more ...



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# Home Appliances



**Type A**  
USA / Canada / Japan



**Type I**  
Australia / New Zealand



**Type E**  
EU / Indonesia / Korea



**Type O**  
Thailand



**Type G**  
UK / Malaysia / Hong Kong



**Type D**  
India / Sri Lanka

and more ...

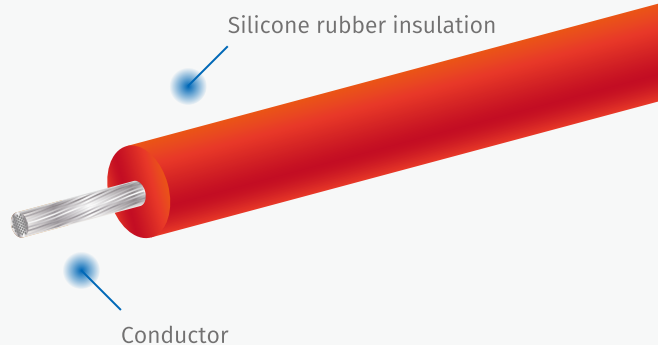
## Certification



[www.wontex.com](http://www.wontex.com)

## Silicone Rubber Wire

- Designed for internal wiring in electrical and medical equipment which requires high temperature and voltage.
- Temperature rating : 150°C
- Voltage rating: 5KV
- UL style: 3239



## About Wonderful HI-TECH



**45+**

years of reliable partnership



Global presence in  
**5** countries



Manufacturing  
**7+** categories of products



Supporting a variety of  
specifications of cable

## Why Choose Us?

### Wonderful Hi-Tech Advantages



**Multi-Site Manufacturing**  
(Taiwan/China/Thailand/Vietnam)



**Technical Support**



**CCCA, TIA, BICSI Member**



**Experienced OEM MFR**



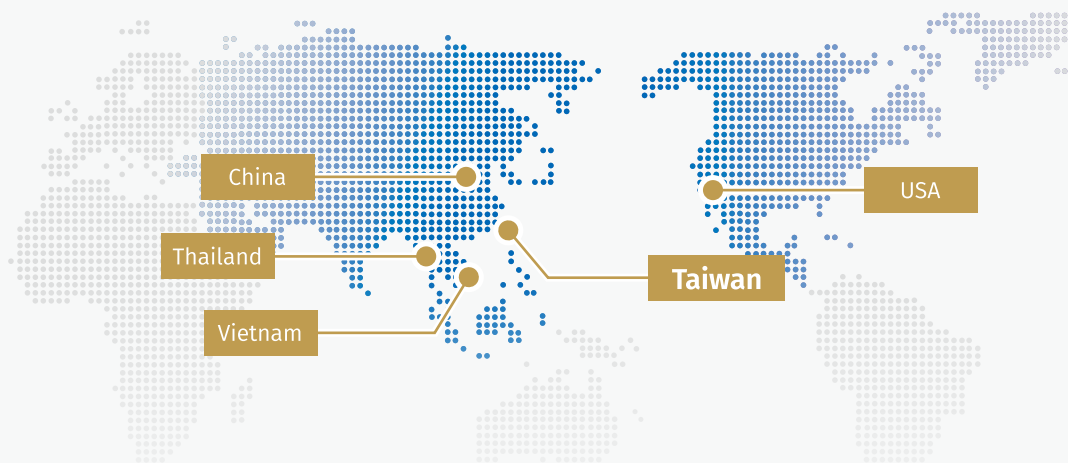
**Products are certified by  
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**Product Diversity**

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# Automobile Wire

EV traction motor temperature sensing

Ni clad or tinned copper with PFA insulation

Temperature range: -40 to 260°C

Non-flammable PFA wire

287°C x 168 hr (7-day) aging test

Reliability tests including exposure to 5% NaCl solution at temperature ranging from -15°C to +85°C for 168 hrs, exposure to 200°C for 1000 hrs

-40°C to +200°C for 1000 cycles

EV Traction Motor  
Temperature Sensor

Low-voltage circuits  
for automobiles

Ethernet-based  
automation connectivity

## Features



Temperature  
Range



Heat  
Resistant



Oil  
Resistant



Chemical  
Resistant



Weather  
Resistant



Non-flammable

## Certification



**GMW 15626**

General Motors, GM



**JASO D611/D618**

Japan



**ISO 6722**

Europe



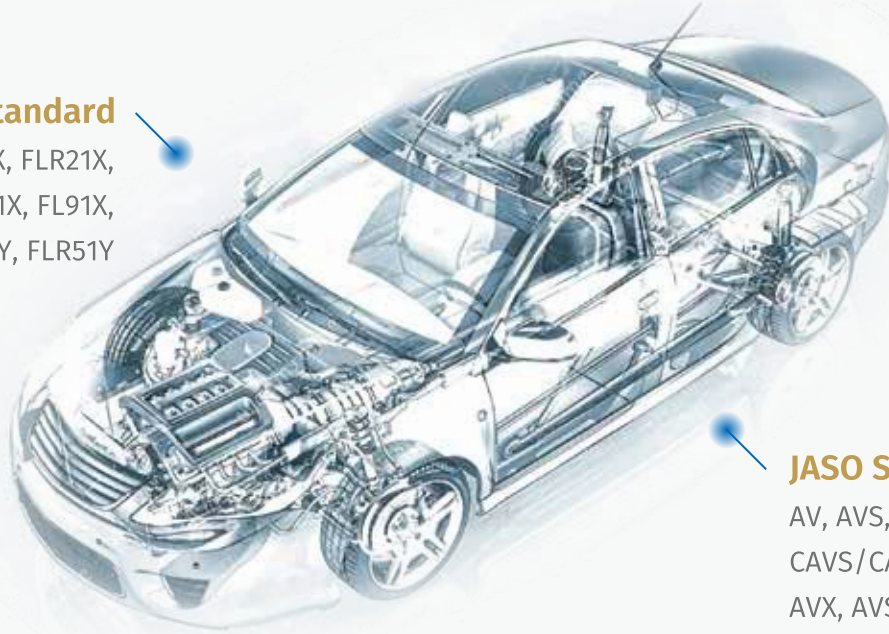
**SAE J-1128/112**

USA

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### ISO 6722 Standard

FLRY, FLY, FLR2X, FLR21X,  
FL2X, FL21X, FLR91X, FL91X,  
FLR7Y, FLR6Y, FLR51Y



### JASO Standard

AV, AVS, AVSS,  
CAVS/CAVUS/CIVUS,  
AVX, AVSX, AVFX, AVXS, AVSSX,  
AVSSH, AEX, AESSX

### SAE J-1128 Standard

GPT, GXL, TXL, SXL

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