Smart Connectivity

Catalog of Six Major Application Cables

Wonderful Hi-Tech Co., Ltd.

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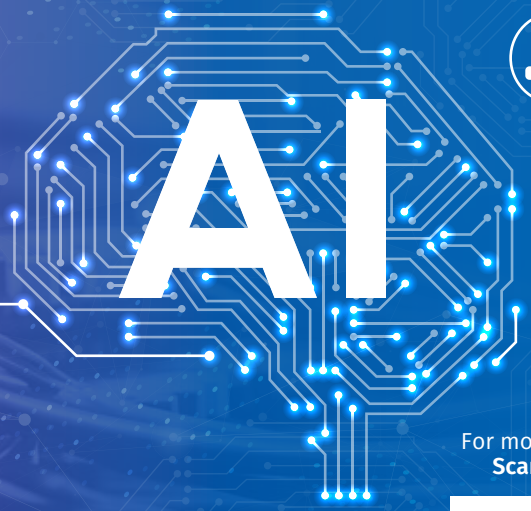
Connect AI with WONDERFUL Cables



For more info
Scan here!

Datacom

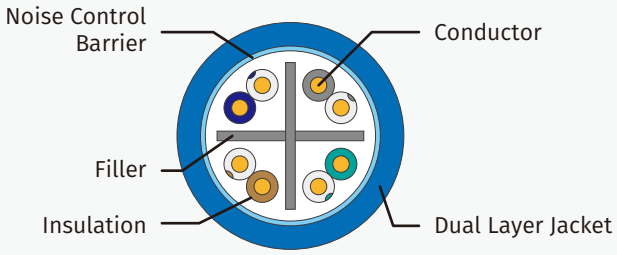
LAN Cable Certificate

◆ 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					◆
	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

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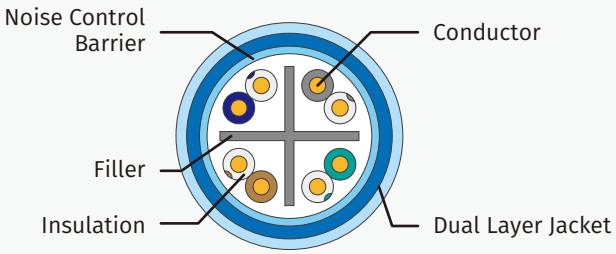
Headquarters - No. 72, Wugong 6th Road, New Taipei Industrial Park, Wugu District, New Taipei City, **Taiwan**

CMX outdoor - CMP Cable

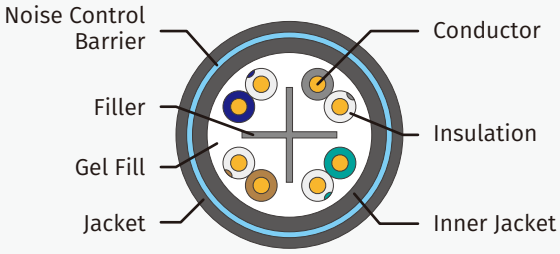
- Dual layer overall jacket.
- Designed for all-in-one indoor plenum and outdoor CMX cable.
- Can be pulled from the outdoors into the indoor directly.
- UTP(VTP) with Noise Control Barrier providing good protection from EMI noise.
- Cat.6 and Cat.6A performance.



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

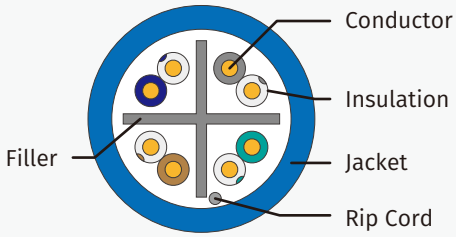
- Outdoor and direct burial purposes with gel-filled.
- Heavy pressure resistance and waterproof.
- Direct buried in smart green house, building to building applications.
- Dual-layer jacket with overall noise control barrier design to reduce alien crosstalk.



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

-40°C Weather Resistant Cable

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

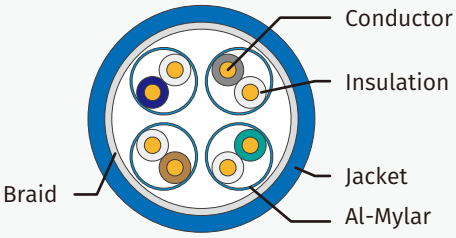


Certification: UL CITS -40°C @ 4hr Cold impact (GR-3164)

HDBaseT3.0 Cable

More suitable for high-frequency video and audio data transmission.

- Transmit HDMI 2.0 uncompressed 4K/60Hz/4:4:4 audio and video.
- Support 4K HDR10+ Video and DOLBY VISION audio formats.
- Upgrade to 10G BaseT (Cat6A) Ethernet.



Certification: UL13 Sec.35 (Crushing Test, 1000 lb), UV resistance for 720 hours.

HDBT™ 3.0 **Standard** (70M) 3.0 **Premium** (100M) HDR10+ Dolby VISION

and more ...

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For more info
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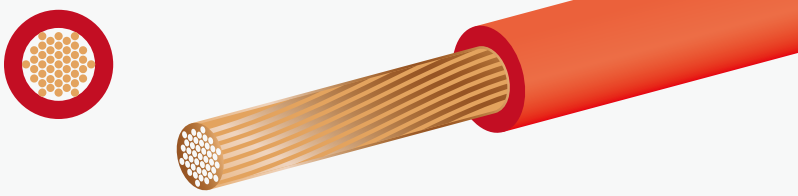
Green Energy

Energy Storage Cable

Large current
8~120mm²

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	XLPVC	105°C	1000V
10070	PVC	105°C	600V
10269	PVC	105°C	1000V
3135	SR	200°C	600V

EV Charge Cable

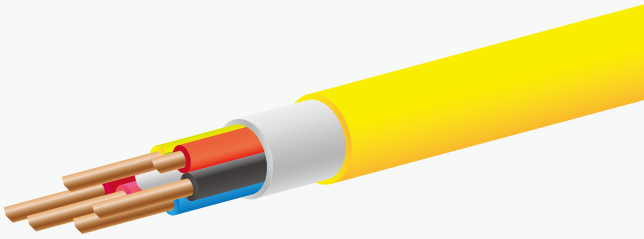
Insulation & Jacket by TPE
flexibility & durability

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

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Solar Cable

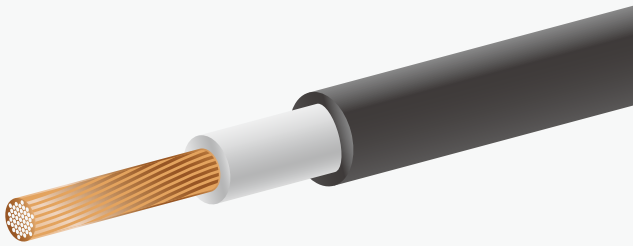
-40°C ~ 90°C
Ambient temperature range

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 MM²·····1X16 MM²

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 ≤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°C~200°C

Feature

- Flexibility & Bending / Torsion Resistant
- Electromagnetic Interference Resistant
- Oil Resistant
- Heat Resistant
- Chemical Resistant
- Weather Resistant
- Non Flammable

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CMX OUTDOOR-CMP Cable

Dual layer overall jacket.

All-in-one indoor plenum and outdoor CMX cable

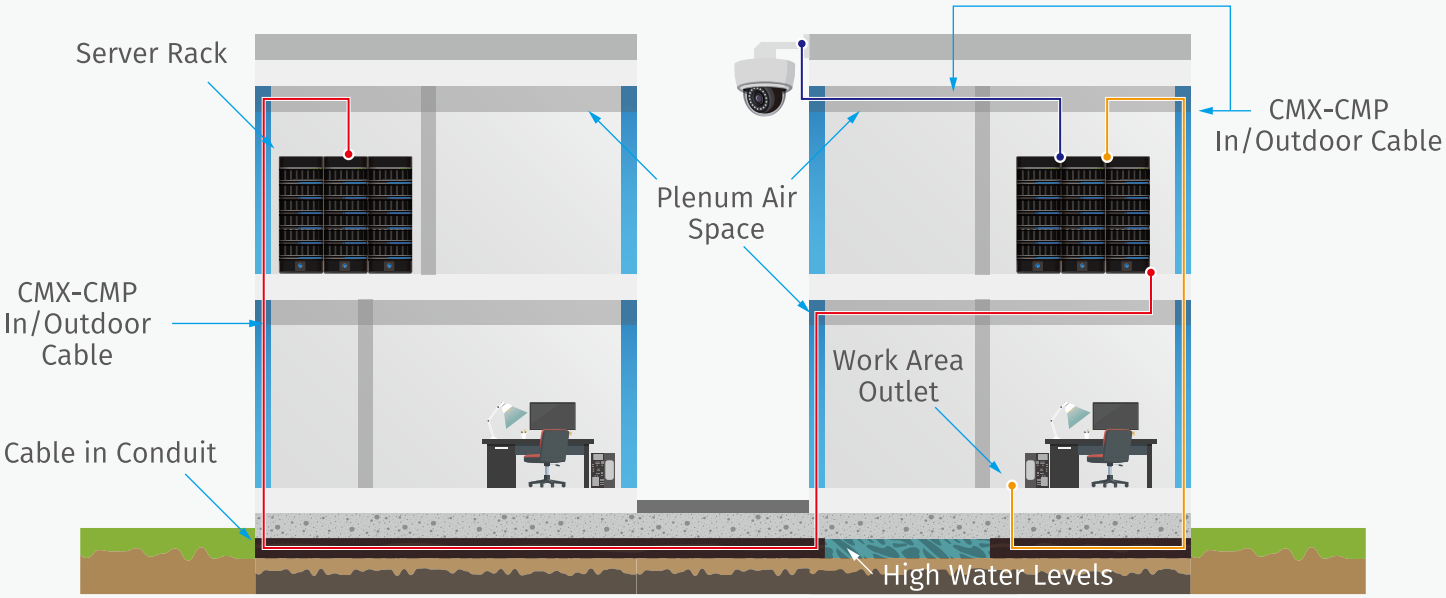
UTP(VTP) with Noise Control Barrier providing good protection from EMI noise.

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

Certification:

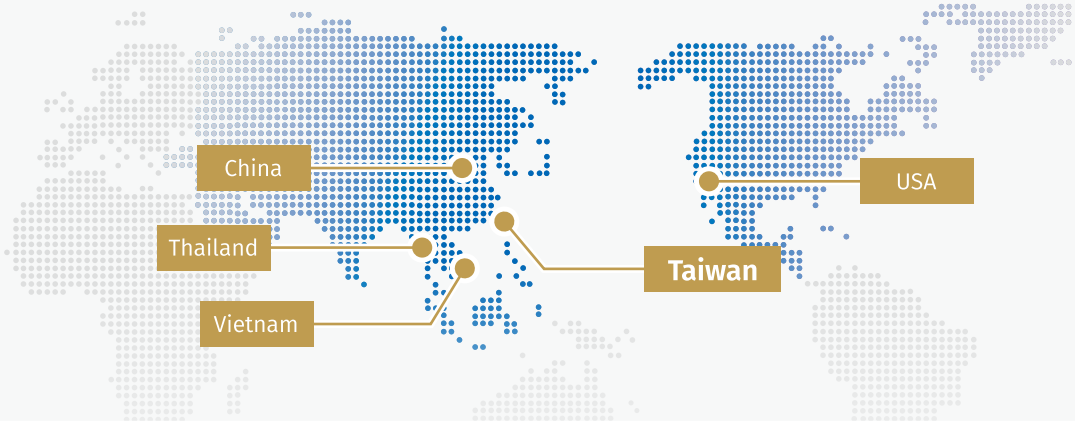
UL 444 (E142890): CMX, CM, CMP, CMX outdoor, CMX outdoor-CM, CMX outdoor-CMP

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



Global Locations

Established: Taiwan @1978 | Taipei & Chungli



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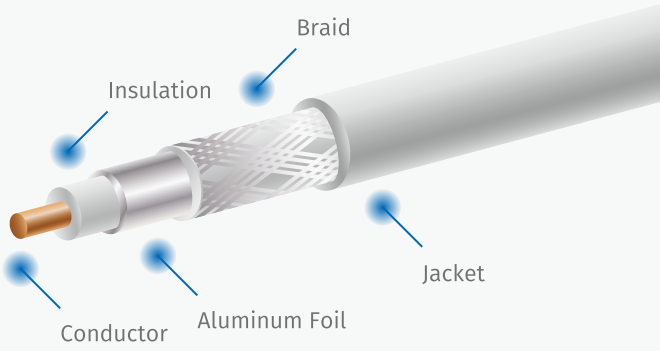
Electrical

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.

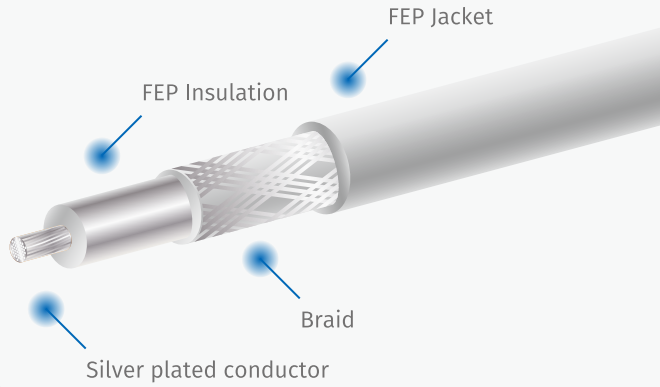


Applications

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

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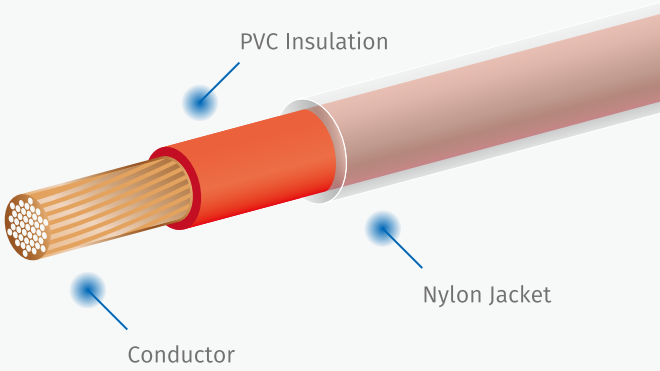
Nylon wire (THHN/THWN)

- 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

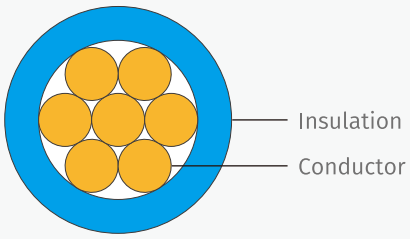
Internal wiring in electrical and electronic equipment

Building

Lighting

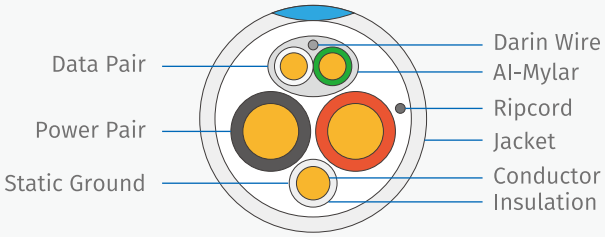
High Temperature Wire

- 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



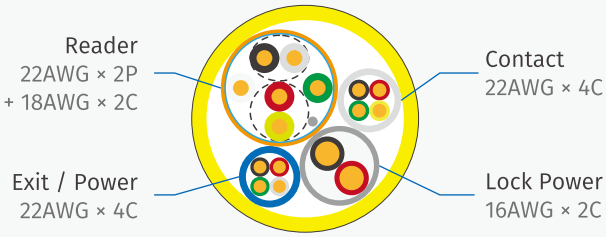
Lighting Control Cable

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



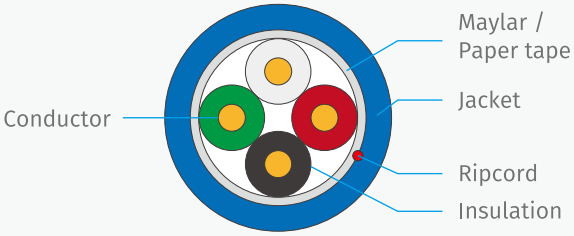
Access Control Cable

- 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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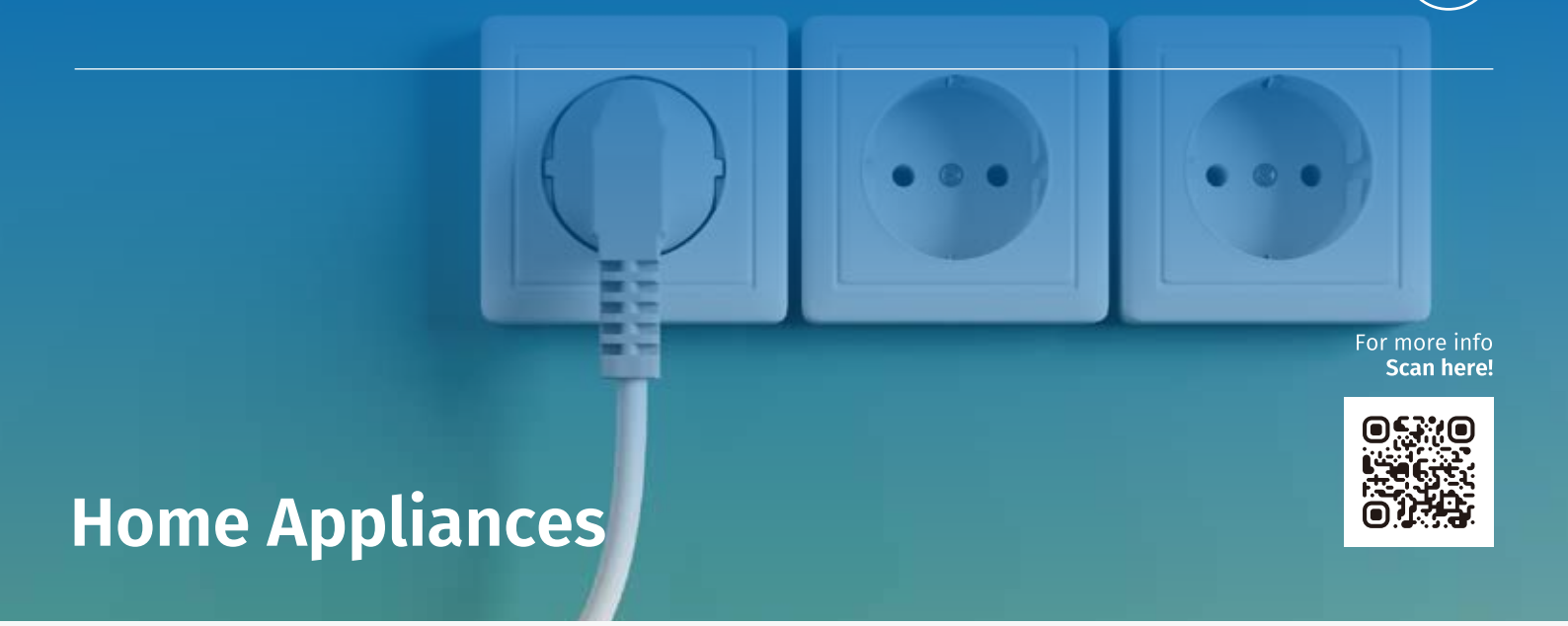

For more info
Scan here!

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

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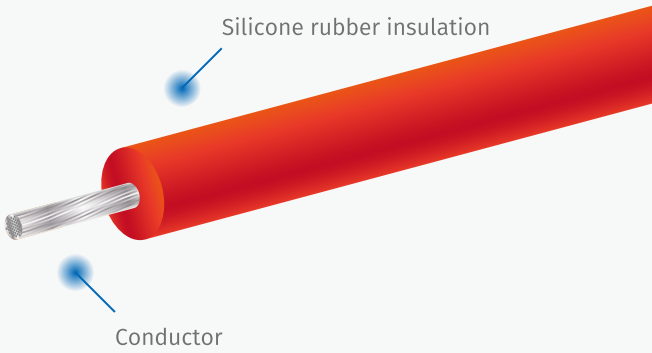
Silicone Rubber Wire

- 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

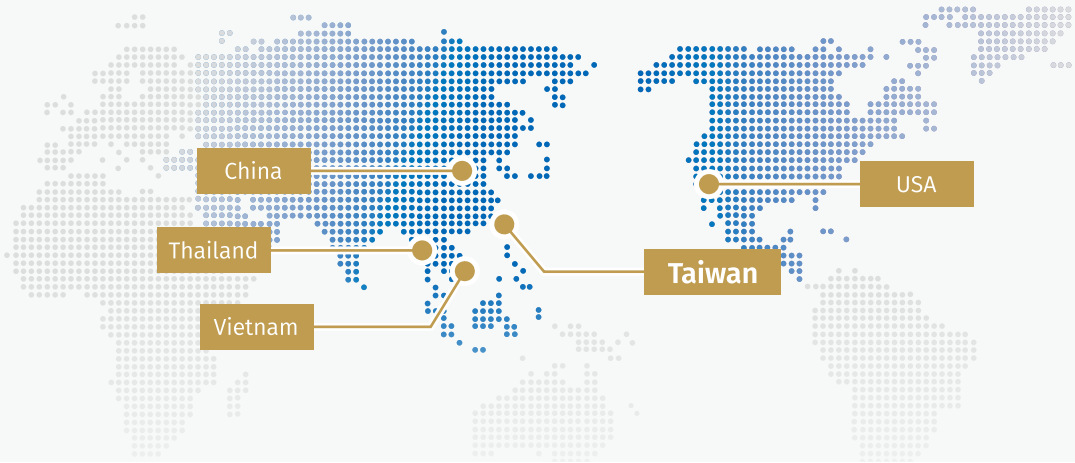
Why Choose Us?

Wonderful Hi-Tech Advantages

- **Multi-Site Manufacturing** (Taiwan/China/Thailand/Vietnam)
- **Technical Support**
- **CCCA, TIA, BICSI Member**
- **Experienced OEM MFR**
- **Products are certified by International Lab**
- **Product Diversity**

Global Locations

Established: Taiwan @1978 | Taipei & Chungli



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Wonderful Hi-Tech Co., Ltd.

Automobile Wire

For more info
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EV traction motor temperature sensing

Ni cladded or tinned copper with PFA insulation

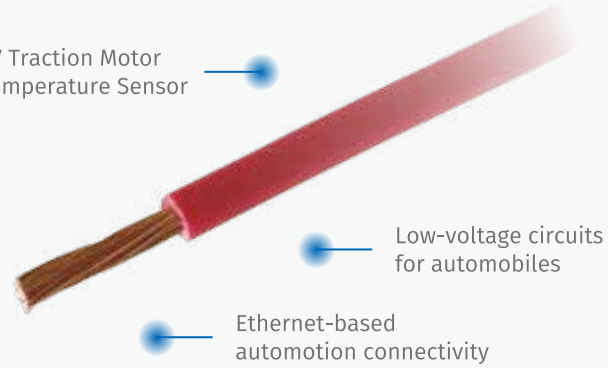
Temperature range: -40 to 260°C

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



Features

- Temperature Range (-40°C / 260°C)
- 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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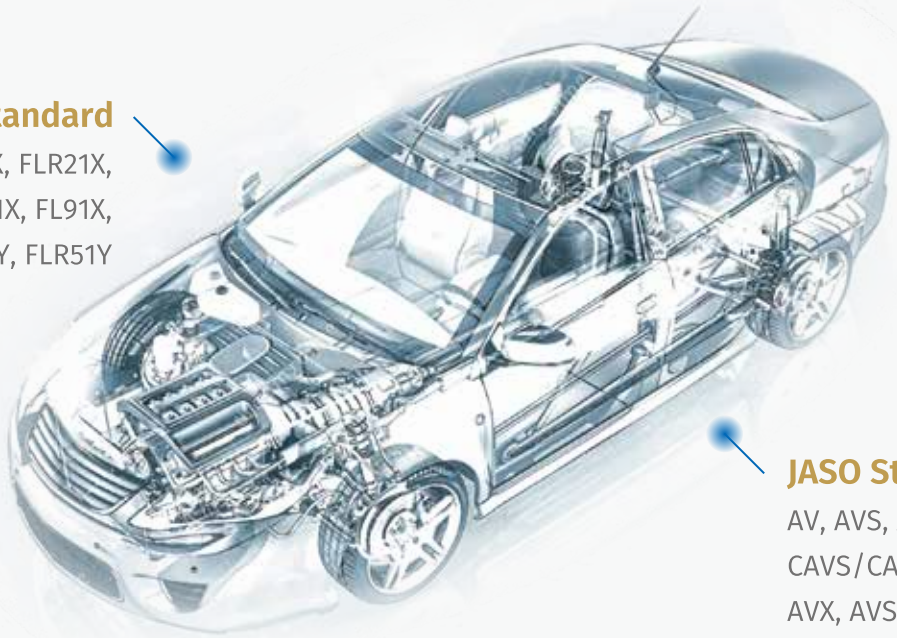

ISO 6722 Standard

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

Why Choose Us?

Wonderful Hi-Tech Advantages

- **Multi-Site Manufacturing** (Taiwan/China/Thailand/Vietnam)
- **Technical Support**
- **CCCA, TIA, BICSI Member**
- **Experienced OEM MFR**
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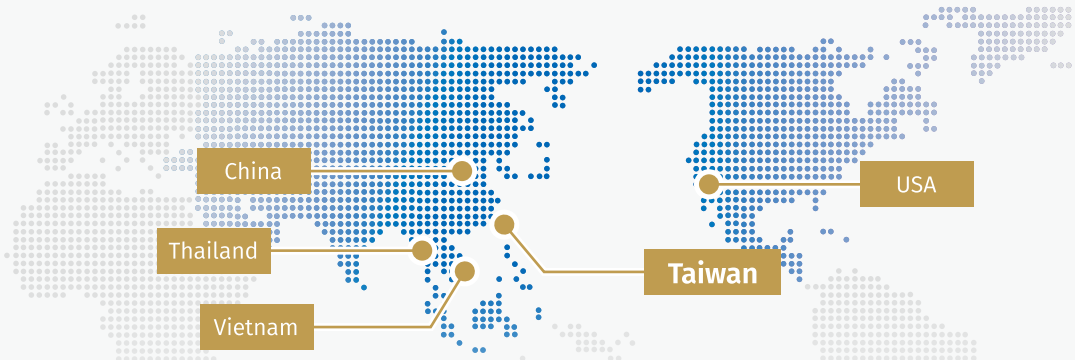

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- Taiwan Factories - Chungli
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- USA Offices - Los Angeles
  ABA INDUSTRY INC.
- China Factories - Dongguan
  WONDERFUL PHOTOELECTRICITY (DONG GUAN) CO., LTD.
- Thailand Factories - Bangkok
  THAI WONDERFUL WIRE CABLE CO., LTD.
- Vietnam Factories - Hai Duong
  WONDERFUL (VIETNAM) WIRE & CABLE CO., LTD.

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