



# JCMA

**The Japanese Electric Wire & Cable Makers' Association**

**Who said we're a wireless world?**

**Without cables, where would you get data for your smartphone or tablet? It isn't just magic.**

**What about your refrigerator, your air conditioner, or your TV?**

**Cars. Trains. Airplanes.**

**Electric wires and cables are the only true link between us and the modern world.**

**No, we're still a very much wired world.  
(thank goodness)**



## About JCMA

The Japanese Electric Wire and Cable Makers' Association (JCMA), founded in 1948, brings together Japan's electric wire and cable manufacturers.

### Objectives of JCMA

#### Role of JCMA

Infrastructure in the form of electric power supply grids and telecommunications networks is essential to modern life.

The electric wires and cables that underpin this infrastructure are as important to today's society as nerves and blood vessels are to the body.

JCMA's social contribution comes through fostering the development of the electric wire and cable industry on which our society depends.

#### JCMA formulates all types of standards for safe use of electric wire and cable.

Misuse of electric wires cause accidents and injuries every day.

We help ensure public safety by promoting standards in wire and cable design and use.

JCMA researches wire and cable performance to discern the needs of society and set standards.

It's a job we do, because many manufacturers cannot do it on their own.

#### Working in the electric wire and cable industry, JCMA helps protect the global environment.

Through appropriate design, electric wire and cable can curb electricity wastage and reduce greenhouse gas emissions.

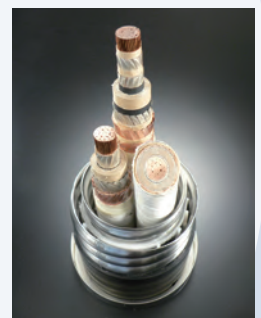
Improving manufacturing processes with high electric power and heat consumption and increasing the efficiency of transport are other ways in which electric wire and cable can reduce greenhouse gas emissions.

To protect the global environment and make a low-carbon, recycling-oriented society possible, JCMA is driving improvements in all forms of industrial activities using electric wire and cable.

#### JCMA is driving globalization of Japan's electric wire and cable industry.

Electric wire and cable manufactured in Japan is directly and indirectly exported to countries around the world.

To enable worldwide use of Japanese wire and cable products meeting international standards of quality, reliability and safety, JCMA researches overseas market trends and is driving comprehensive harmonization of Japanese and international technical standards.



**Superconducting Cable**





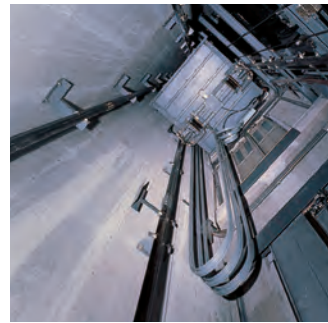
# Electric Wire and Cable Types and Applications

There are a huge number of types of wire and cable such as the cables which carry electric power from generating plants to consumers, telecommunications wires for telephone, Internet and other data, power supply wiring within homes and other buildings, and power cords for domestic appliances.

Their size, depending on their application, can range from as thick as a log to finer than a hair.



- Electricity line
- Communication (Voice, data) line

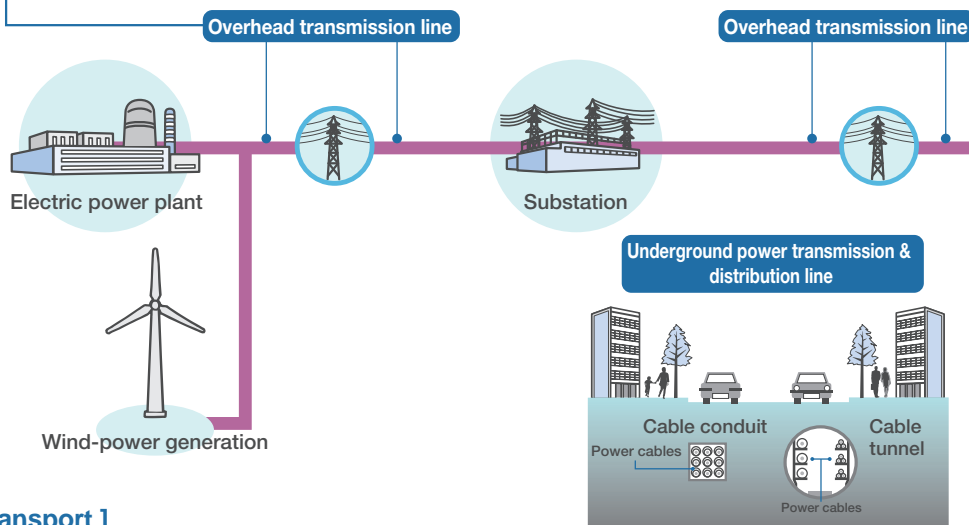


Elevator Cable

## [ For electric power ]

Electric power cables, called “transmission lines”, carry electricity from generating plants to consumers.

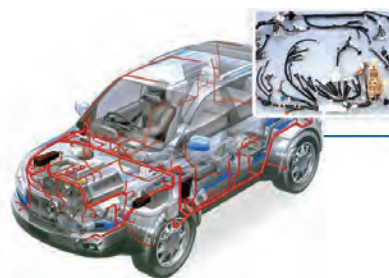
Most transmission lines are supported on high steel pylons, but underground or underwater cables are used in urban areas and places where pylons are difficult to construct.



## [ For transport ]

Electric wire and cable using designs and materials with high resistance to temperature changes, shock and vibration, water, oil etc. is utilized in cars, airplanes, ships and other vehicles.

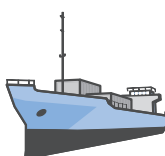
The “wire harness” commonly used in vehicles consists of different types of electric wires and cables which have gone through cutting, binding and connector crimping processes as required by the finished product’s specifications.



**Automotive wire harness  
(Installation drawing)**

Picture provided by YAZAKI Corp.

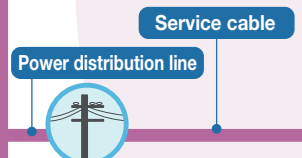
Automotive cable



Marine cable



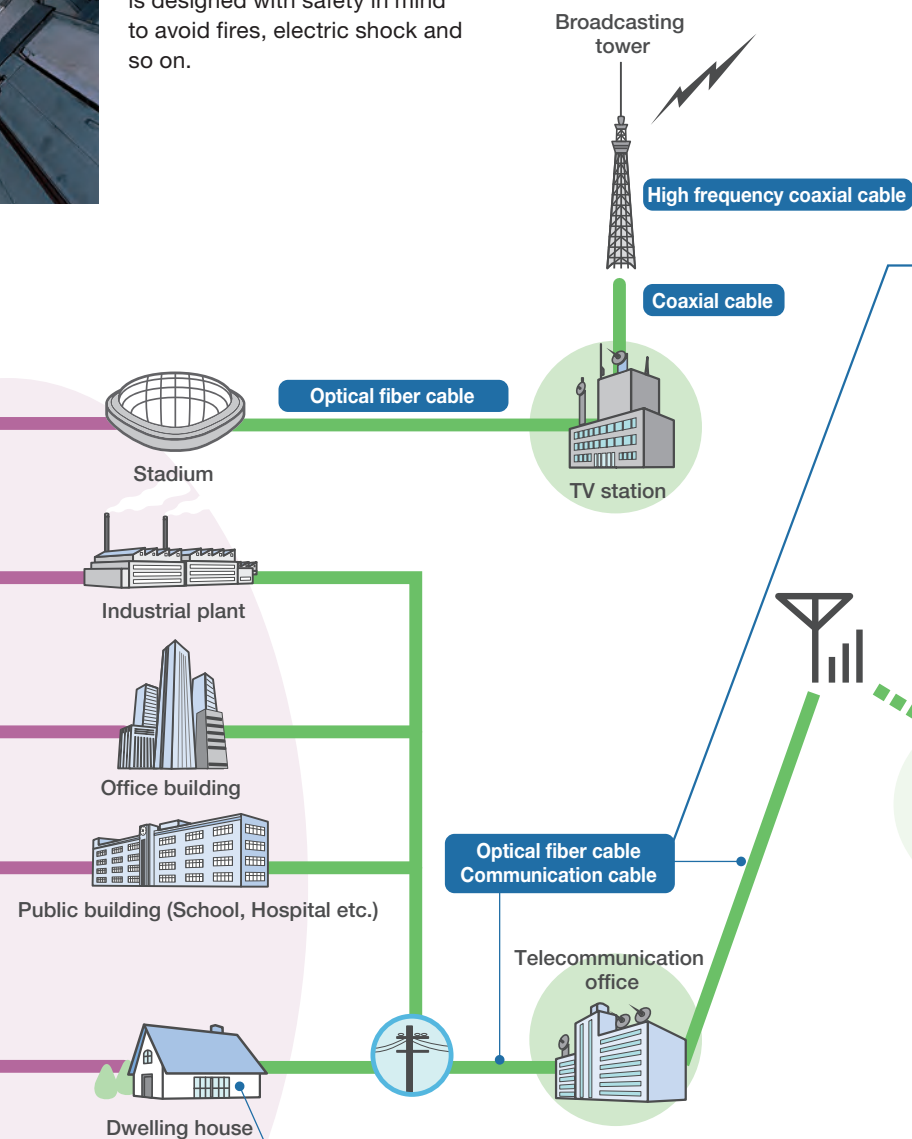
Railroad  
Railcar cable





### [ For homes and other buildings ]

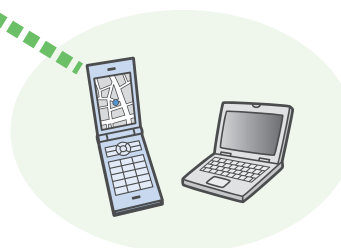
Power and telecommunications wiring, installed in ceilings, floors and walls of homes and other buildings, is designed with safety in mind to avoid fires, electric shock and so on.



Optical fiber cable

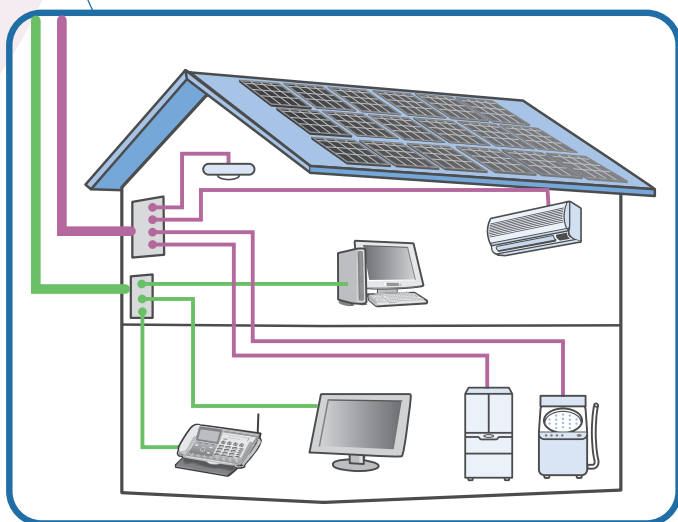
### [ For telecommunications ]

High-frequency coaxial cable, fiber optic cable, LAN cable etc. are used to carry images, sound and data via TV, telephone, Internet and so on.



### [ For electronics ]

A huge number of types of wiring using a variety of designs and materials are utilized in domestic appliances, personal computers, cell phones and other electronic devices.



# JCMA Activities

## Standardization activities

To enable wire and cable users to choose the appropriate products for their application, we are standardizing product specifications, performance, evaluation methods and handling procedures.

- Establishment and regular revision of JIS (Japanese Industrial Standards) related to wires and cables
- Establishment and revision of harmonized JIS with international standards (including consideration of technical standards for electrical appliances and equipment)
- Deliberations regarding the establishment and revision of IEC (international Electrotechnical Commission) standards related to wires and cables
- Establishment and periodic revision of JCS (Japanese Cable Makers' Association Standard) as a standard that complements JIS (In addition to product standards, material standards, testing and inspection standards, and technical calculation standards for wires and cables, JCS also includes electric wire-related products such as drums for wrapping wires and cables)

## Technical studies

Our studies deal with common technical issues faced by many wire and cable manufacturers and consumer groups, such as improving the quality, reliability, and safety of wires and cables, and responding to the latest chemical regulations. We are disseminating this information.

- Maintaining a high level of basic technology through publication and revision of technical documents
- Maintaining a high level of know-how through publication and revision of internal documents
- Sharing regulatory information on chemical substances through RoHS Directive and ECHA (European Chemicals Agency) information
- Understanding political and environmental circumstances and technology trends overseas (including technical meetings with Europacable)

## Industry research

To provide the information that will contribute to the development of Japan's electric wire and cable industry, we conduct statistical analyses of industry trends and research various factors which may affect the industry.

- Demand forecasting for electric wire, cable and optical fiber cable
- Study and research on forecasting methods
- Intelligence on manufacturers' activities in overseas markets, collection and publication of export and import customs data
- Provision of statistical data to relevant government ministries, analysis of statistics produced by these ministries, reports
- Preparation and publication of statistical data for the electric wire and cable manufacturing industry based on members' aggregate business results

## **Training and human resources development**

To nurture the human resources on whom the development of Japan's electric wire and cable industry depends, we offer training courses in both basic and specialized knowledge for the electric wire and cable field.

- Our newly established expert committee on human resources development plays a major role in human resources procurement and development by cooperating with training courses and other activities by the Japan Electric Cable Technology Center (JECTEC).
- In addition to human resources development, we organize seminars on the environment, safety, gender equality etc., and we run education and information campaigns for our members.

- As representatives of the electric wire and cable industry, we engage in the following public relations activities to enhance the industry's image.

## **Publications**

We produce and market publications providing basic knowledge for safe and appropriate use of electric wire and cable, specialized technical information.

## **Bulletin**

Through our bulletin *Densen Jiho (Electric Wire and Cable News)*, we publicize JCMA activities and provide valuable information to members.

## **Public relations and information**

Through website and social media postings, and announcements in the press, we provide information about JCMA and the electric wire and cable industry as a whole.

We also inform members about government policies, compliance with relevant laws and regulations and other topics.

## Officers

### Chairman

Moridaira Hideya  
Furukawa Electric Co., Ltd.

### Vice Chairman

Inoue Osamu  
Sumitomo Electric Industries, Ltd.  
Okada Naganobu  
Kyowa Electric Wire Industry Co., Ltd.  
Ishibashi Eiko  
Tsushin Kogyo Electric Wire & Cable Co., Ltd.



Chairman Masahiko Ito

**Senior Managing Director** Abe Shigenobu, JCMA

**Managing Director** Nakashima Hidefumi, JCMA

## Directors

Miyasaka Koichi  
Nagano Takahiko  
Okada Naoki  
Yamadori Takahiro  
Sumita Kazuo  
Sakaguchi Yoshio  
Kijima Eiichi  
Tanaka Toshinori  
Yamaguchi Hideo  
Kijima Tadatoshi  
Murakami Kazuya  
Fujimori Kenichiro  
Komata Tetsuo  
Morimoto Shohei  
Taniguchi Akihiro  
Takayasu Shinichi  
Tsuda Kohei  
Oka Akira  
Yazaki Ko  
Yukita Shirou

Bando Densen Co., Ltd.  
Fuji Electric Wire Industries Co., Ltd.  
Fujikura Ltd.  
Hien Electric Industries, Ltd.  
Hirakawa Hewtech Corporation  
KHD Electronics Co., Ltd.  
Kijima Communications Wire Co., Ltd.  
Kuramo Electric Co., Ltd.  
Oki Electric Cable Co., Ltd.  
Onamba Co., Ltd.  
Proterial, Ltd.  
Shinagawa Electric Wire Co., Ltd.  
SWCC Corporation  
Tatsuta Electric Wire & Cable Co., Ltd.  
Taiyo Cabletec Corporation  
Tokyo Electric Wire Industrial Co., Ltd.  
Tsuda Electric Wire & Cable Co., Ltd.  
Yasaka Electric Wire Co., Ltd.  
Yazaki Energy System Corporation  
Yukita Electric Wire Co., Ltd.

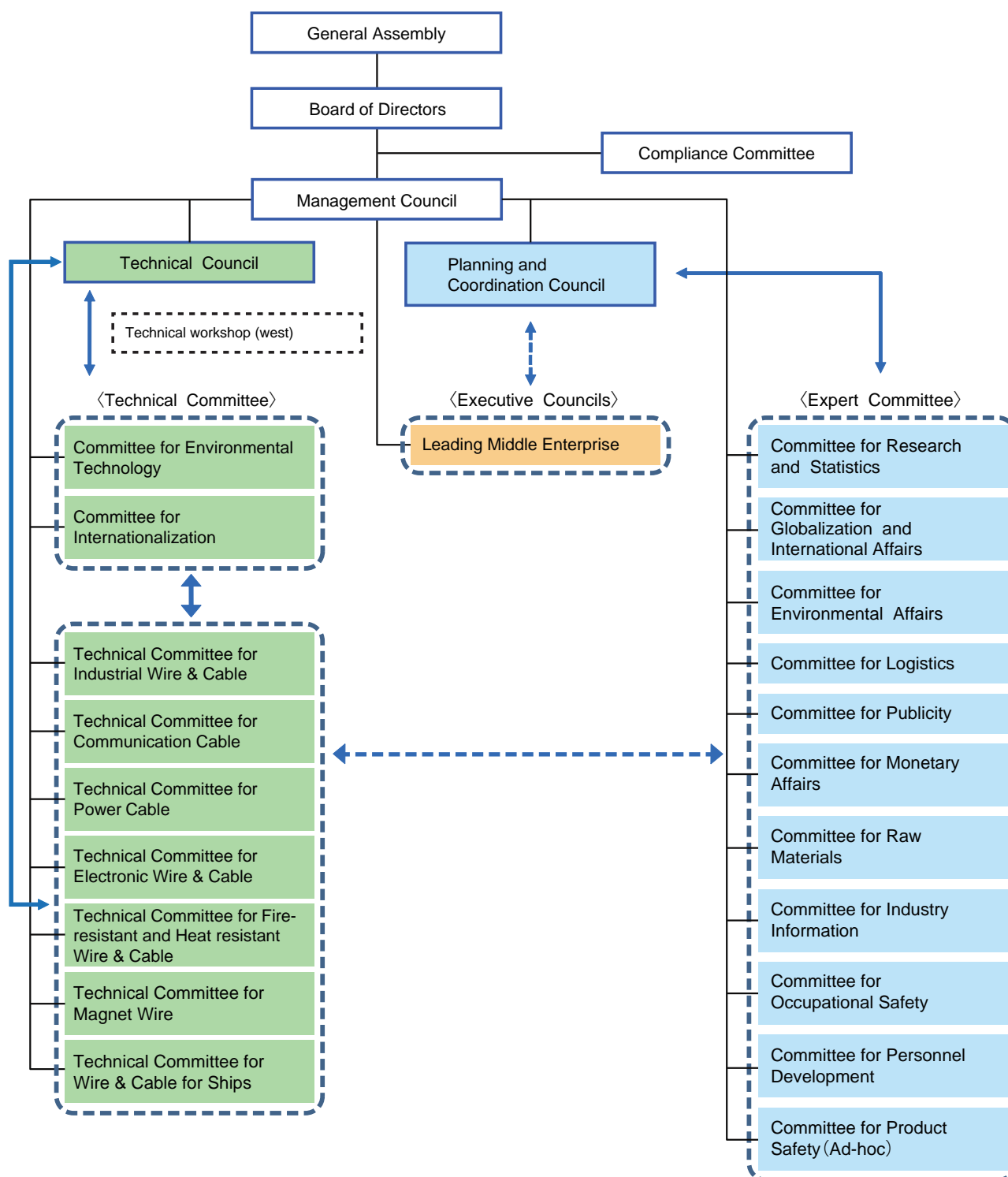
## Auditors

Koike Hitoshi  
Nojiri Norikazu

Kawai Cable, Ltd.  
Nikko Electric Wire Co., Ltd.



# Organization



# Members

## REGULAR MEMBERS

116 private companies & 1 public organization

### A

Aichi Electric Wire Co., Ltd.  
Akashi Electric Wire Co., Ltd.  
A • K • K Corp.  
Arai Co., Ltd.

### B

Bando Densen Co., Ltd.  
Bessho Cable & Wire Assembly Co., Ltd.

### C

Chugoku Electric Wire & Cable Co., Ltd.

### D

Daiei Electric Wire Ind. Co., Ltd.  
Daiko Denkosha Corp.  
Daikoku Electric Wire Co., Ltd.  
Daikyo Electronics Wire Co., Ltd.  
Dyden Corporation

### E

Ebara Electric Wire Co., Ltd.  
Essex Solutions Inc.

### F

Fuji Electric Cable Co., Ltd.  
Fuji Electric Wire Co., Ltd.  
Fuji Electric Wire Industries Co., Ltd.  
Fuji Fine Co., Ltd.  
Fujikura Ltd.  
Fujikura Dia Cable Ltd.  
Fujikura Energy Systems Ltd.  
Fukuden Co., Ltd.  
Furukawa Automotive Systems Inc.  
Furukawa Electric Co., Ltd.  
Furukawa Electric Metal Cable Co., Ltd.  
Furukawa Magnet Wire Co., Ltd.

### H

Hanshin Electric Wire & Cable Co., Ltd.  
Hien Electric Industries, Ltd.  
Hirakawa Hewtech Corp.  
Hokkaido Electric Industries, Ltd.  
Hokuetsu Electric Wire Mfg. Co., Ltd.

### I

Interwired Co., Ltd.  
Ishizue Magnet Wire Works Ltd.

### J

Japan Electric Cable Technology Center  
JMACS Japan Co., Ltd.  
Junkosha Inc.

### K

Kanan Shindosho Ltd.  
Kaneko Cord Co., Ltd.  
Kansai Tsushin Densen Co., Ltd.  
Kawai Cable, Ltd.  
Kawasaki Electric Wire Co., Ltd.  
Kayo Electric Wire Co., Ltd.  
KHD Electronics Co., Ltd.  
Kijima Communications Wire Co., Ltd.  
Kitanihon Electric Cable Co., Ltd.  
Koei Electric Wire Co., Ltd.  
Kowa Co., Ltd.  
Koyo Electric Wire Co., Ltd.  
Kuramo Electric Co., Ltd.  
Kyoto Electric Wire Co., Ltd.  
Kyokuto Electric Wire Co., Ltd.  
Kyowa Electric Wire Industry Co., Ltd.  
Kyowa Limited

### M

Maruiwa Electric Wire Co., Ltd.  
Meiko Futaba Co., Ltd.  
Miki Electric Wire Co., Ltd.  
Misawa Densen Co., Ltd.  
Misuzu Co., Ltd.  
Mitsuboshi Co., Ltd.

### N

Nagaoka Electric Wire Co., Ltd.  
Nanboku Copper Wire Drawing Co., Ltd.  
Nihon Vinyl Cord Corp.  
Nikkatsu Electric Wire Works, Ltd.  
Nikko Densen Kogyo Co., Ltd.  
Nikko Electric Wire Co., Ltd.  
Nippon Curl Cord Co., Ltd.  
Nippon Seisen Cable, Ltd.  
Nishi Nippon Electric Wire & Cable Co., Ltd.  
Nishiosaka Seisen Co., Ltd.

### O

OCC Corporation  
Okano Cable Co., Ltd.  
Oki Electric Cable Co., Ltd.  
Onamba Co., Ltd.  
Osaka Cambric Cable Insulated Mfg. Works

### P

Proterial, Ltd.

### R

Riken Cable Technorogy Co., Ltd.  
Riken Electric Wire Co., Ltd.

### S

Sakai Dengyo Co., Ltd.  
San-ei Electronic Industries Co., Ltd.  
Sanshu Electric Wire Co., Ltd.  
Sanyo Co., Ltd.  
Sanyo Denko Co., Ltd.  
Sanyo Electric Wire Co., Ltd.  
Sawada Kogyosho Co., Ltd.  
SEI Optifrontier Co., Ltd.  
Seiwa Denko Co., Ltd.  
Shikoku Cable Co., Ltd.  
Shinagawa Electric Wire Co., Ltd.  
Shin-Etsu Electric Wire Co., Ltd.  
Shinko Electric Industrial Co., Ltd.  
Shinko Electric Wire Co., Ltd.  
Shiragami Seisen Co., Ltd.  
Showa Furukawa Cable Co., Ltd.  
Showa Seisen Co., Ltd.  
Suganami Electric Wire Co., Ltd.  
Sumiden Fine Conductors Co., Ltd.  
Sumiden HST Cable Ltd.  
Sumitomo Electric Industrial Wire & Cable Inc.  
Sumitomo Electric Industries, Ltd.  
Sumitomo Electric Wintec, Inc.  
Sumitomo Wiring Systems, Ltd.  
SWCC Corporation

### T

Taisho Electric Wire Co., Ltd.  
Taiyo Cabletec Corporation  
Takahashi Electric Wire Co., Ltd.

Tanaka Densen Co., Ltd.  
Tatsuta Electric Wire & Cable Co., Ltd.  
Tatsuta Tachii Electric Cable Co., Ltd.  
Tokyo Electric Wire Industrial Co., Ltd.  
Tokyo Wire Works, Ltd.  
Tsuda Electric Wire & Cable Co., Ltd.  
Tsushin Kogyo Electric Wire & Cable Co., Ltd.

## Y

Yasaka Electric Wire Co., Ltd.  
Yazaki Energy System Corporation  
Yonezawa Electric Wire Co., Ltd.  
Yoshinogawa Electric Wire & Cable Co., Ltd.  
Yukita Electric Wire Co., Ltd.

## SUPPORTING MEMBERS

31 private companies & 3 public organizations

## A

Andrew Japan K.K

## D

Dainichiseika Color & Chemicals MFG. Co., Ltd.

## E

ENEOS NUC Corp.

## F

FITEC Corporation  
Furukawa Elecom Co., Ltd.  
Furukawa Electric Ecotec Co., Ltd.

## I

ITO MACHINE CO.,LTD.  
Inabata & Co., Ltd.

## J

Japan Aluminium Association  
Japan Polyethylene Corporation  
Japan Power Cable Accessories Association

## K

KISCO Ltd.

## L

LS Cable & System Japan Ltd.

## M

Mitsubishi Chemical Corporation  
Miyazaki Machinery Systems Co., Ltd.

## N

Nippon Cable Drum Supply Co., Ltd.  
Nippon Niehoff Co., Ltd.  
Nippon Light Metal Co., Ltd.  
Nippon Paper Papyrus Co., Ltd.

## P

Plas-tech Corporation

## R

Riken Technos Corporation

## S

SBS Furukawa Logistics Corp.  
Shibusawa Logistics Corporation  
Shin-Etsu Chemical Co., Ltd.  
Showa Kasei Kogyo.  
SIKORA Japan Co., Ltd

## T

Takikawa Engineering Co., Ltd.  
T. Fukase and Company Ltd.  
Toho International Inc.  
TOMISHO CORPORATION

## U

Ube Exsymo Co., Ltd.  
Ube-Maruzen Polyethylene Co., Ltd.  
Usui Metals Corporation

## V

Vinyl Environmental Council



## The Japanese Electric Wire & Cable Makers' Association

<https://www.jcma2.jp/>



### ACCESS

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