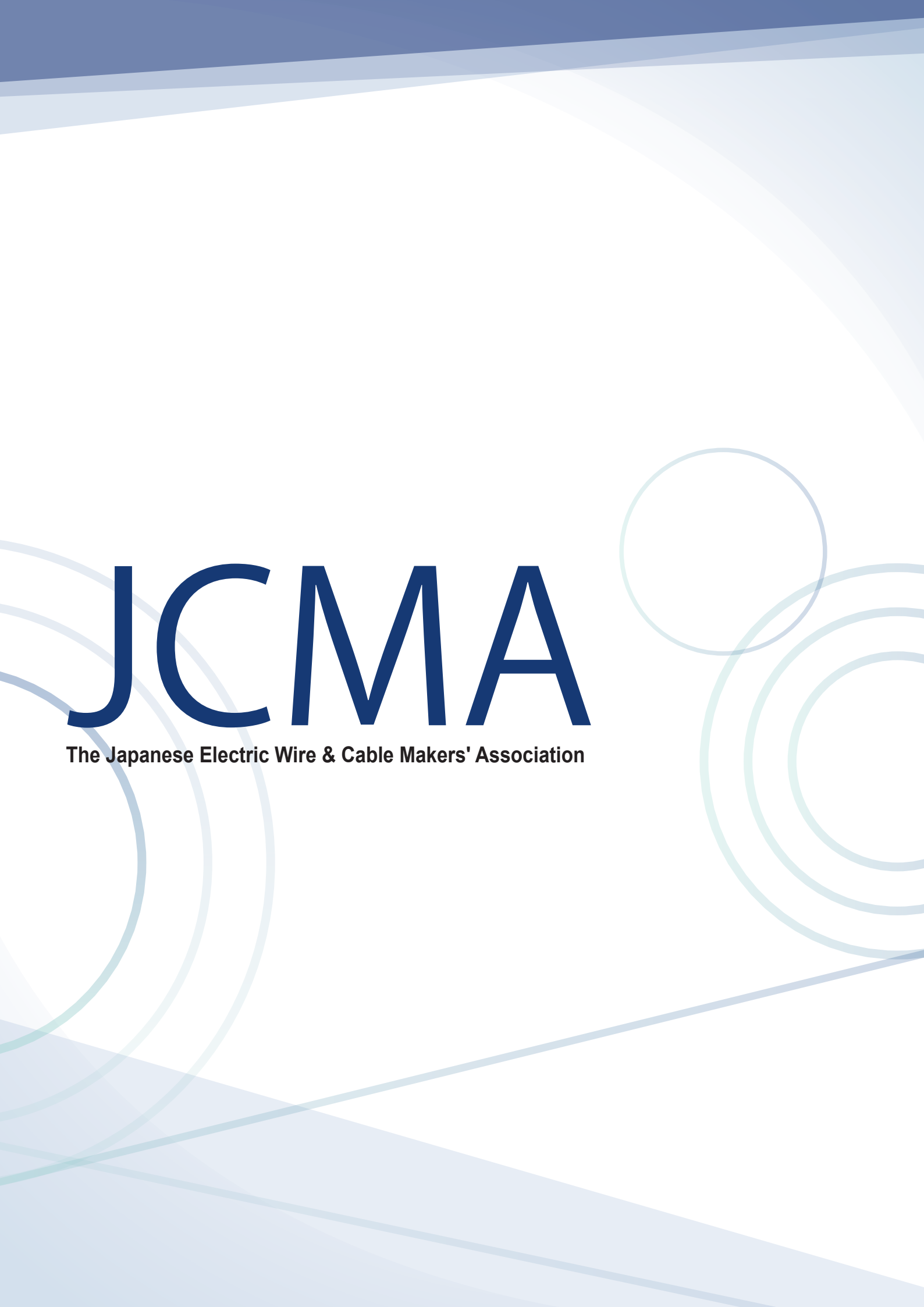




JCMA

The Japanese Electric Wire & Cable Makers' Association

No internet, no email, no cell phone ...

No TV, no refrigerator, no air conditioner ...

Cars, trains, planes ...

You can't use it without wires and cables.

They are the lifeline of modern life.



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.

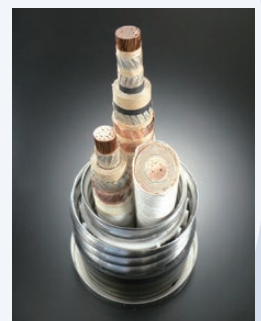
It's a job we do, because many manufacturers cannot do it on their own.

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

Through appropriate designing, electric wires and cables can reduce greenhouse gas emission as well as power losses.

Greenhouse gas emissions can also be reduced by improving manufacturing processes and transportation efficiency, which use a lot of electricity and heat.

JCMA promotes improvements in various industrial activities related to electric wires and cables that contribute to the conservation of the global environment and the realization of a low-carbon, circular economy.



Superconducting Cable

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

Electric wire and cables manufactured in Japan are exported to various countries around the world.

JCMA researches overseas market trends and promotes the harmonization of various technical standards with international standards so that electric wire and cables manufactured in Japan can be used worldwide as products with world-class quality, reliability, and safety.



Electric Wire and Cable Types and Applications

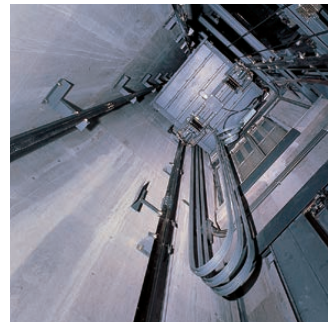
There are a huge number of types of wire and cable such as the cables which carry electric power from generating plants to consumers, telecommunications wires for telephone, Internet and other data, power supply wiring within homes and other buildings, and power cords for domestic appliances.

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



Overhead transmission line

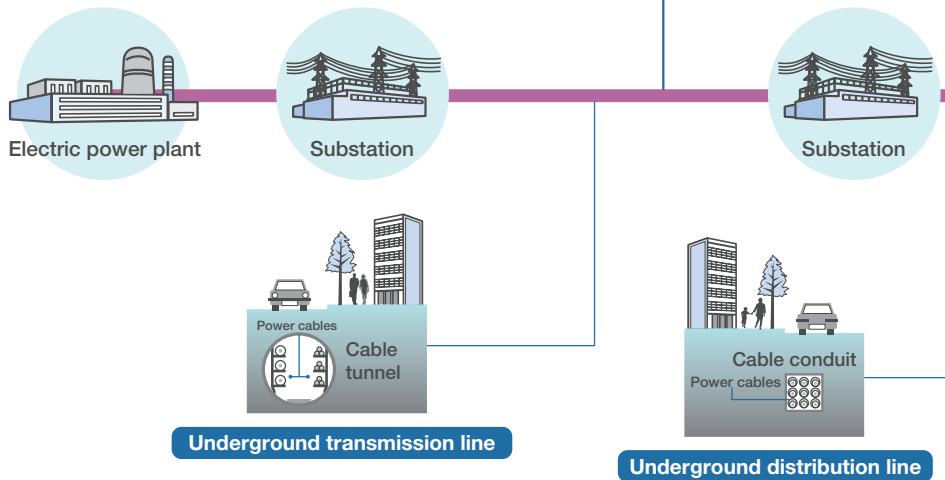
Electricity line
Telecommunications line



Elevator Cable

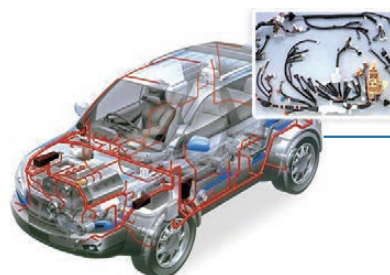
[For electric power]

Electric power cables, called “transmission lines” and “distribution lines”, carry the electricity from power plants to consumption sites. Most transmission lines are supported on high steel pylons, but underground cables are used in urban 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.

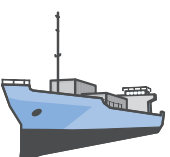


Automotive wire harness
(Installation drawing)

Picture provided by YAZAKI Corp.



Automotive cable

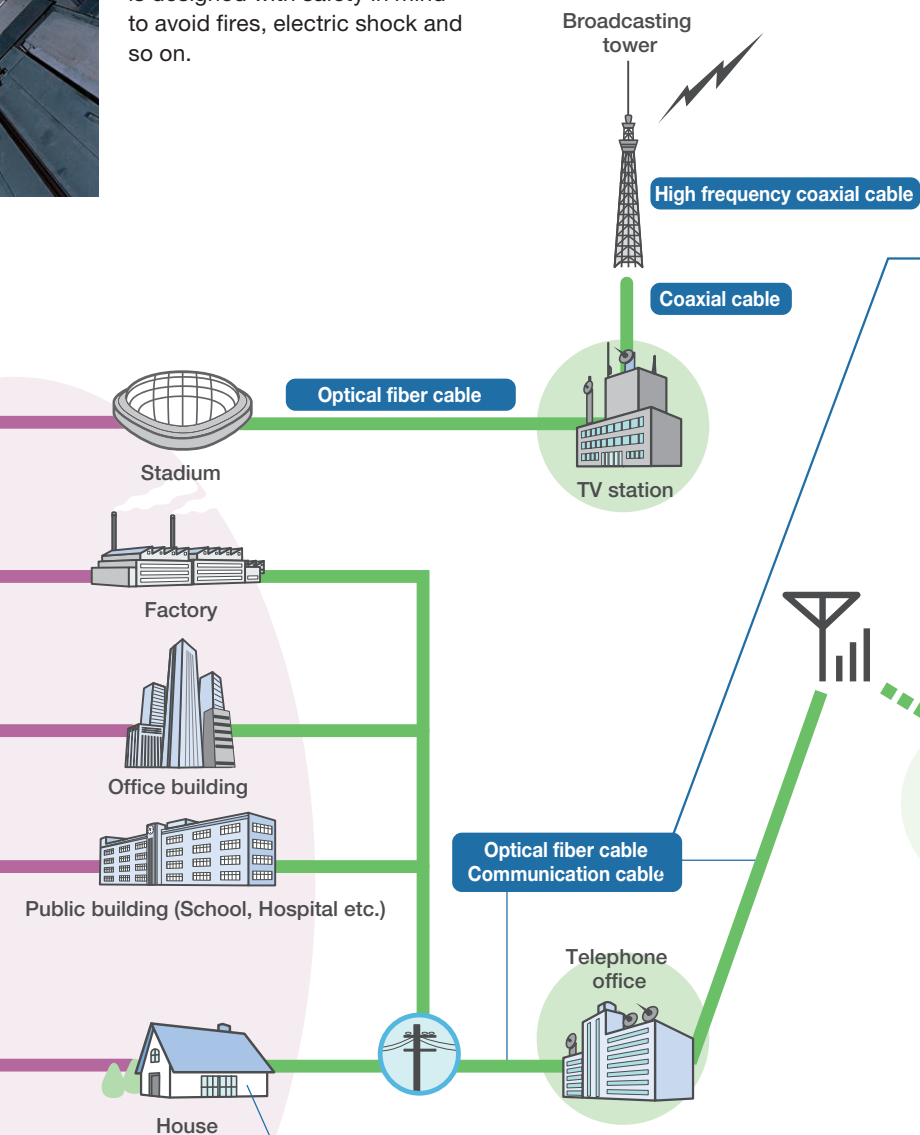


Marine cable



[For homes and other buildings]

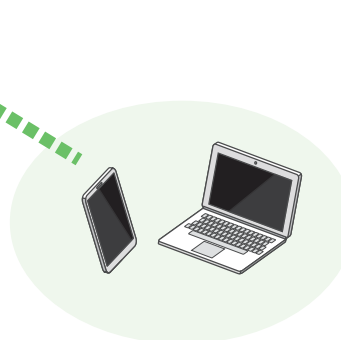
Power and telecommunications wiring, installed in ceilings, floors and walls of homes and other buildings, is designed with safety in mind to avoid fires, electric shock and so on.



Optical fiber cable

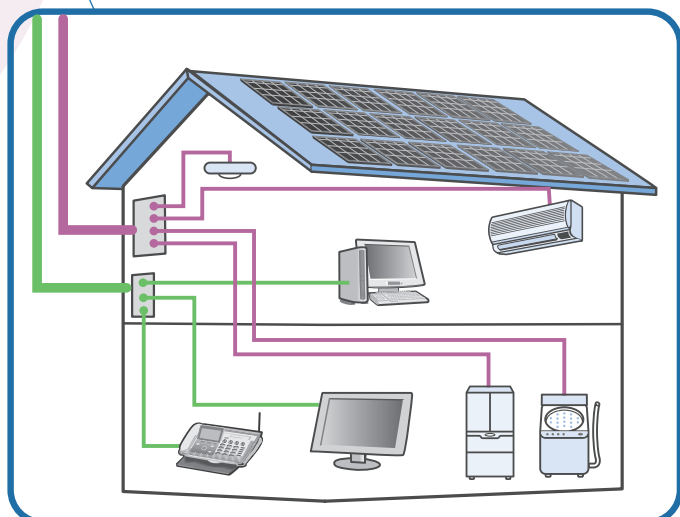
[For telecommunications]

These are wire and cables that transmit and receive signals such as video, audio, and data, used in television, telephone, and internet communications. Examples include high-frequency coaxial cables, fiber optic cables, and LAN cables.



[For electronics]

Electric wires and cables used inside electrical appliances such as home appliances, personal computers, and mobile phones. There are many types of electric wires and cables depending on the product they are built into.



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 Standards) as standards that complement JIS (Japanese Industrial Standards). (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 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).
- We organize training sessions and other activities, including human resource development, environmental protection, safety, and improvement of business practices, to inform and raise awareness among 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.

Public relations and information

Through our website and social media postings, we disseminate industry information and information that enhance the brand image of the electric wire and cable industry.

Officers

- **Chairman** Osamu Inoue
Sumitomo Electric Industries, Ltd.
- **Vice Chairman** Naoki Okada
Fujikura Ltd.
Naganobu Okada
Kyowa Electric Wire Industry Co., Ltd.
Eiko Ishibashi
Tsushin Kogyo Electric Wire & Cable Co., Ltd.
- **Senior Managing Director** Kiyonori Yokoi, JCMA
- **Managing Director** Hidefumi Nakashima, JCMA



Chairman Osamu Inoue

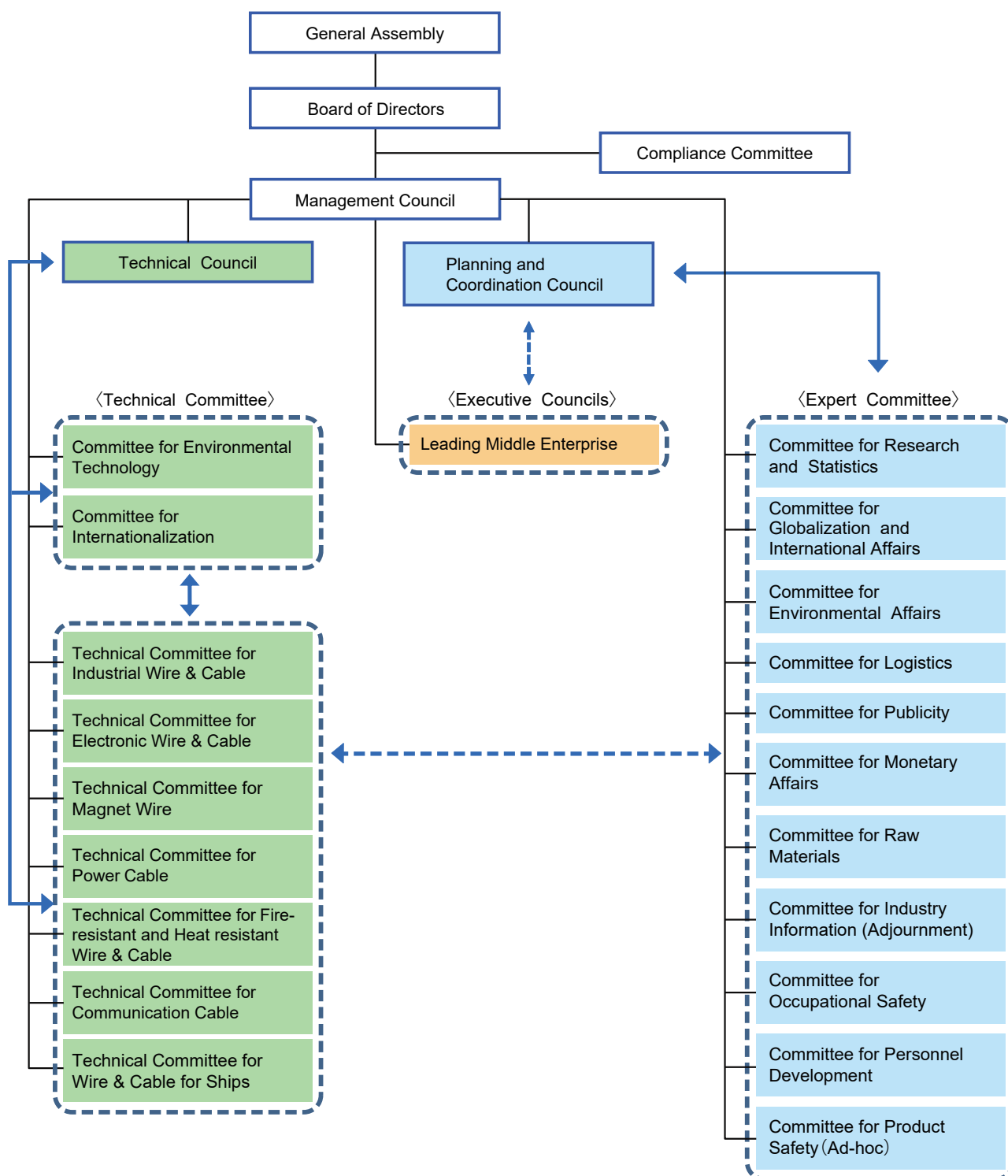
Directors

Koichi Miyasaka	Bando Densen Co., Ltd.
Takahiko Nagano	Fuji Electric Wire Industries Co., Ltd.
Naoki Okada	Fujikura Ltd.
Kazuo Sumita	Hirakawa Hewtech Corporation
Hitoshi Koike	Kawai Cable, Ltd.
Yoshio Sakaguchi	KHD Electronics Co., Ltd.
Eiichi Kijima	Kijima Communications Wire Co., Ltd.
Toshinori Tanaka	Kuramo Electric Co., Ltd.
Hideo Yamaguchi	Oki Electric Cable Co., Ltd.
Tadatoshi Kijima	Onamba Co., Ltd.
Kazuya Murakami	Proterial, Ltd.
Kenichiro Fujimori	Shinagawa Electric Wire Co., Ltd.
Tetsuo Komata	SWCC Corporation
Kazuhiko Iida	Tatsuta Electric Wire & Cable Co., Ltd.
Akihiro Taniguchi	Taiyo Cabletec Corporation
Shinichi Takayasu	Tokyo Electric Wire Industrial Co., Ltd.
Naohiro Tsuda	Tsuda Electric Wire & Cable Co., Ltd.
Akira Oka	Yasaka Electric Wire Co., Ltd.
Ko Yazaki	Yazaki Energy System Corporation
Shirou Yukita	Yukita Electric Wire Co., Ltd.

Auditors

Takahiro Yamadori	Hien Electric Industries, Ltd.
Norikazu Nojiri	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 Industrial 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 Technology 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.
Tsuchin 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 Vision 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





心と心をつなぐインフラへ。
“つなぐ”11月18日は電線の日

The Japanese Electric Wire & Cable Makers' Association

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



ACCESS

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