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.
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.

[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.
[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.

[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.
JMCA Activities

Standardization and harmonization

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

- **Harmonization of standards for electric wire and cable with international (IEC) standards**
  In cooperation with relevant organizations, we are proceeding with the tasks of formulating JIS standards harmonized with international ones and revising technical standards for electrical appliances and equipment.

- **International standardization for superconducting cable**
  To drive international standardization for superconducting cable, we are supporting the activities of CIGRE (International Council on Large Electric Systems) as a preliminary step towards harmonization of standards.

- **Standardization of conductor size in low-voltage power cable for optimal environmental performance**
  We are driving domestic and international standardization for “environmentally friendly” cables in which optimal conductor size reduces current loss and CO₂ emissions.

- **International standardization for photovoltaic system cable (PV cable)**
  As solar power becomes increasingly popular around the world as a form of clean energy, we are driving international standardization for cable used in photovoltaic systems to improve the safety and reliability of this type of cable.

Technical studies

Our studies deal with technical issues faced by many electric wire and cable manufacturers such as improving product quality, reliability and safety, the transition to environmentally friendly materials, compliance with the most recent chemical substances regulations and increasing the recycling rate for scrap electric wire and cable.

- **Creating markets by developing new technology**
  We are conducting studies on possible applications of plant-derived plastics in electric wire and cable, and on the use of non-fossil materials.

- **Compliance with chemical substances regulations**
  We provide prompt and accurate information to our members, enabling them to achieve full compliance with REACH regulations and the revised Chemical Substances Control Law (Kashinhou).

- **Environmentally friendly design**
  To facilitate recycling of wire coverings, we are driving uniformity in lead-free marking and the use of raised marks on EM wire and cable.
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, security trade control etc., and we run education and information campaigns for our members.
- We have upgraded Metal Wonder Avenue (recruiting website) in cooperation with Net 7 (Nonferrous Metals Network Council).
- We host instructors from relevant government ministries for seminars on security trade control to provide our members with all the information they need for compliance with relevant laws and regulations.

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, statistical data on electric wire and cable products and so on.

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 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**  
Keiichi Kobayashi  
Furukawa Electric Co., Ltd.

**Vice Chairman**  
Osamu Inoue  
Sumitomo Electric Industries, Ltd.  
Naozumi Taniguchi  
Taiyo Cabletec Corporation  
Shinichi Takayasu  
Tokyo Electric Wire Industrial Co., Ltd.

**Senior Managing Director**  
Yusei Shirasaka JCMA

**Managing Director**  
Hidehumi Nakashima JCMA

**Directors**

Seiji Endo  
Onamba Co., Ltd.

Kenichiro Fujimori  
Shinagawa Electric Wire Co., Ltd.

Takayo Hasegawa  
SWCC Showa Holdings Co., Ltd.

Eiko Ishibashi  
Tsushin Kagyo Electric Wire & Cable Co., Ltd.

Masahiko Ito  
Fujikura Ltd.

Kazunari Kobayashi  
Oki Electric Cable Co., Ltd.

Hitoshi Koike  
Kawai Cable, Ltd.

Koichi Miyasaka  
Bando Densen Co., Ltd.

Kazuya Murakami  
Hitachi Metals, Ltd.

Takahiko Nagano  
Fuji Electric Wire Industries Co., Ltd.

Noriyuki Nojiri  
Nikko Electric Wire Co., Ltd.

Akihiro Oka  
Yasaka Electric Wire Co., Ltd.

Yoshio Sakaguchi  
KHD Electronics Co., Ltd.

Kazuo Sumita  
Hirakawa Hewtech Corp.

Hirohito Miyashita  
Tatsuta Electric Wire & Cable Co., Ltd.

Kohei Tsuda  
Tsuda Electric Wire & Cable Co., Ltd.

Takahiro Yamadori  
Hien Electric Industries, Ltd.

Ko Yazaki  
Yazaki Energy System Corporation

Sadao Yukita  
Yukita Electric Wire Co., Ltd.

**Auditors**

Eiichi Kijima  
Kijima Communications Wire Co., Ltd.

Toshinori Tanaka  
Kuramo Electric Co., Ltd.
## Members

### REGULAR MEMBERS

117 private companies & 1 public organization

| A | Aichi Electric Wire Co., Ltd.  
  | Akashi Electric Wire Co., Ltd.  
  | 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.  
  | Daijoku Electric Wire Co., Ltd.  
  | Daiyo Electronics Wire Co., Ltd.  
  | Dyden Corporation |
| E | Ebara Electric Wire Co., Ltd. |
| F | Fuji Electric Cable Co., Ltd.  
  | Fuji Electric Wire Co., Ltd.  
  | Fuji Electric Wire Industries Co., Ltd.  
  | Fuji Fine Co., Ltd.  
  | Fujikura Dia Cable Ltd.  
  | Fujikura Ltd.  
  | Fukudai 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.  
  | Hitachi Metals, Ltd.  
  | Hokkaido Electric Industries, Ltd.  
  | Hokuezetsu 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 Shindo Ltd.  
  | Kaneko Cord Co., Ltd.  
  | Kansai Tsushin Densen Co., Ltd.  
  | KANZACC Co., Ltd.  
  | Kawai Cable, Ltd.  
  | Kawasaki Electric Wire Co., Ltd.  
  | KDD Electronics Co., Ltd.  
  | Kijima Communications Wire Co., Ltd.  
  | Kitanishin 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.  
  | Kyoei Electric Wire Industry Co., Ltd.  
  | Kyowa Electric Co., Ltd. |
| M | Maruiwa Electric Wire Co., Ltd.  
  | Meiko Futaba Co., Ltd.  
  | Miki Electric Wire Co., Ltd.  
  | Misawa Densen Co., Ltd.  
  | Misuzu Co., Ltd.  
  | Mitsubishi Co., Ltd.  
  | Musashi Wire 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 |
| R | Riken Cable Technorogy Co., Ltd.  
  | Riken Electric Wire Co., Ltd.  
  | Ryosei Amagasaki Electric Wire Co., Ltd. |
| S | San-ei Electronic Industries Co., Ltd.  
  | Sanyo Co., Ltd.  
  | Sanyo Denko Co., Ltd.  
  | Sanyo Electric Wire Co., Ltd.  
  | Sawada Kogyo 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.  
  | Shinoko Electric Wire Co., Ltd.  
  | Shiragami Seisen Co., Ltd.  
  | Showa Seisen Co., Ltd.  
  | Suganami Electric Wire Co., Ltd.  
  | Sumiden Fine Conductors Co., Ltd.  
  | Sumiden Hitachi Cable Ltd.  
  | Sumitomo Electric Industrial Wire & Cable Inc.  
  | Sumitomo Electric Industries, Ltd.  
  | Sumitomo Electric Wintec, Inc.  
  | Sumitomo Wiring Systems, Ltd.  
  | SWCC Showa Cable Systems Co., Ltd.  
  | SWCC Showa Holdings Co., Ltd. |
| T | Taisha Electric Wire Co., Ltd.  
  | Taiyo Cabletec Corporation  
  | Takahashi Electric Wire Co., Ltd.  
  | Takeuchi Electric Wires Works Co., Ltd.  
  | Tanaka Densen Co., Ltd.  
  | Tatsuta Electric Wire & Cable Co., Ltd.  
  | Tatsuta Tachii Eletric Cable Co., Ltd.  
  | Tokyo Electric Wire Industrial Co., Ltd.  
  | Tokyo Wire Works, Ltd. |
SUPPORTING MEMBERS
26 private companies & 3 public organizations

A
Asahi Kasei Corporation
C
CommScope Japan K.K.
D
Dainichiseika Color & Chemicals MFG. Co., Ltd.
DOW Chemical Japan Ltd.
F
FITEC Corporation
Furukawa Elecom Co., Ltd.
Furukawa Electric Ecotec Co., Ltd.
Furukawa Logistics Corp.
I
Inabata & Co., Ltd.
J
Japan Aluminium Association
Japan Polyethylene Corporation
Japan Power Cable Accessories Association
L
LS Cable & System Japan Ltd.
M
Mitsubishi Chemical Corporation
Miyazaki Machinery Systems Co., Ltd.
N
Nippon Cable Drum Supply Co., Ltd.
Nippon Light Metal Co., Ltd.
Nippon Paper Papyla Co., Ltd.
NUC Corporation
P
Plas-tech Corporation
R
Riken Technos Corporation
S
Shin-Etsu Chemical Co., Ltd.
Showa Kasei Kogyo Co., Ltd.
T
Takikawa Engineering Co., Ltd.
T. Fukase and Company Ltd.
Toho International Inc.
U
Ube Exsymo Co., Ltd.
Ube-Maruzen Polyethylene Co., Ltd.
Usui Metals Corporation
V
Vinyl Environmental Council
The Japanese Electric Wire & Cable Makers' Association
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