

Automotive Solutions

ADAS, Connected Car, Infotainment, E-mobility

Products and Applications lineup



We provide solutions
for the next generation mobility
such as ADAS,
Connected Car and E-mobility

Infotainment

High quality connectors and subharnesses to assure seamless connection of Infotainment, Car, and Smartphone

Connected Car

High quality automotive connectors for infotainment and communication compatible with each car maker's specific requirements

ADAS Safety/Powertrain

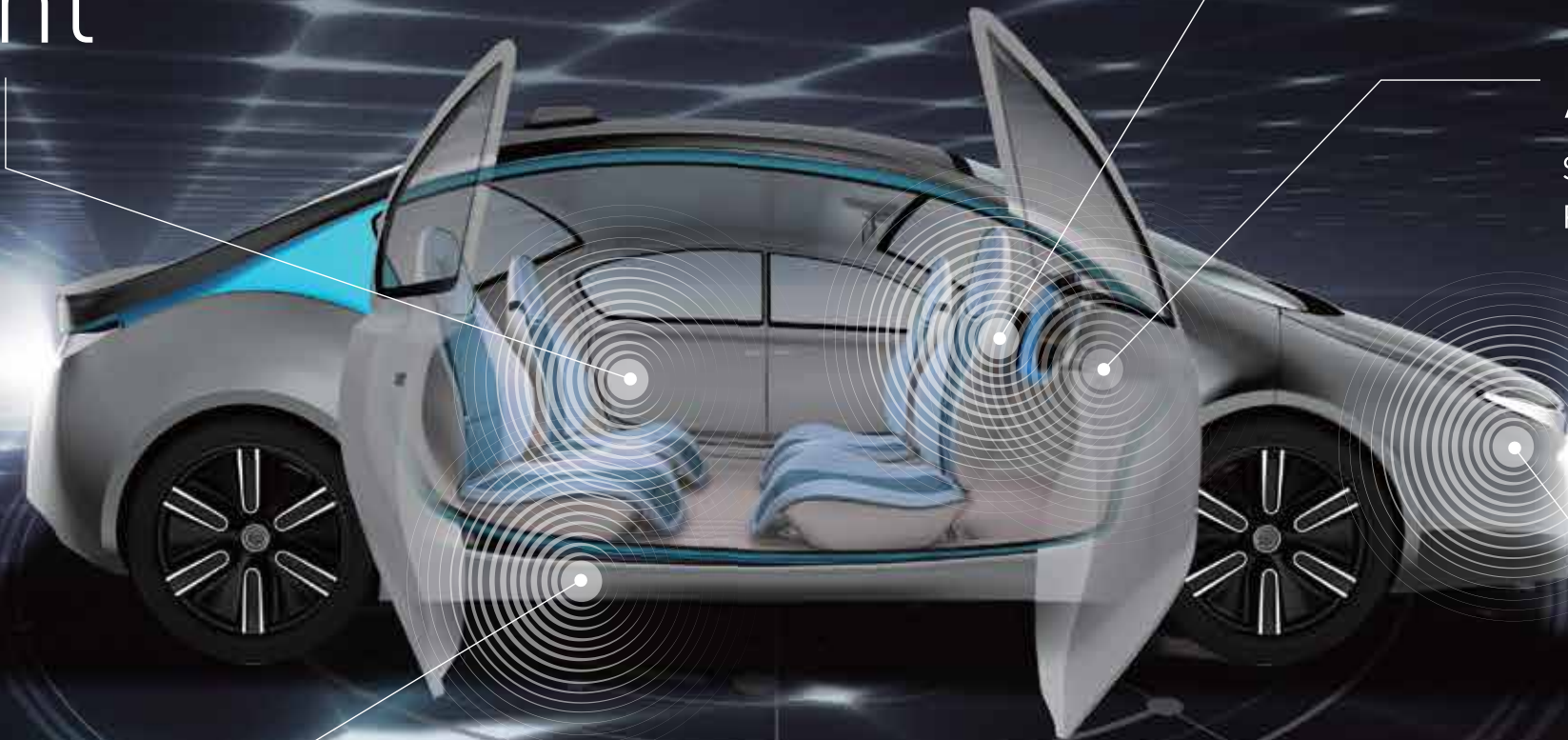
Safety System (SRS Airbag / Squib)
Powertrain System (Engine ECU)

E-mobility

Heat resistant connectors to assure reliable connection with charger and between batteries

ADAS Camera/Activity Sensor

Wide range of connectors for automotive sensors for example camera, milli-wave radar, laser radar, LIDAR etc.



E-mobility



Connected Car



Charging



KW1/KW02/KW03

- CHAdeMO compatible connector for DC charger and V2G system
- Easy operation and high reliability
- Both types conform to UL certification and CE marking

of Contacts: Power: 2 pos, Signal: 7 pos. (KW1) / 8 pos (KW03)
 Rated Current : Power : 125A (KW1) / 25A (KW02) / 80A (KW03)
 Rated Voltage : Power : DC500V (KW1, KW03) / DC450V (KW02)
 Mating Cycles: 10,000 cycles



MX84B

PHEV, EV Connector using low flammability material

- Insulator materials compliant with the flammability standard UL94 V-0
- The same form and dimensions as the MX34 Series

of Contacts : 20, 28 pos
 Rated Current: 3A
 Operating Temperature : -40 Deg. C + 85 Deg. C



MX60A

Multi polar waterproof connectors for powertrain with lever

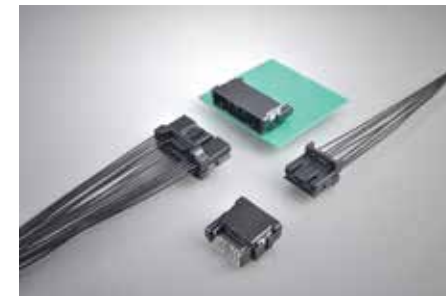
of Contacts : 1 77pos
 2 blocks
 Operating Temperature : -40 Deg. C + 105 Deg. C



KW04

- CCS type 2 compatible connector for DC charger
- Easy operation and high reliability
- CE compliant
- Replaceable mating face

of Contacts: Power: 2 pos, Signal: 3 pos.
 Rated Current : Power : 150A / 200A
 Rated Voltage : Power : DC1000V
 Mating Cycles: 10,000 cycles



MX77A

Ultra low profile connector

- Board to cable
- Angle type

of Contacts: 4, 8, 12, 16, 20, 24, 32, 40pos
 Operating Temperature : -40 Deg. C + 85 Deg. C



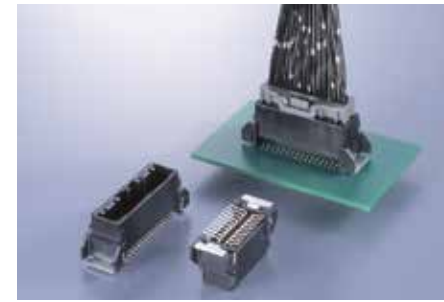
MX44

Compact waterproof connector

- Board to cable

of Contacts : 2, 4, 6 pos.
 Rated Current: 3A
 Operating Temperature : -40 Deg. C + 125 Deg. C

BMS

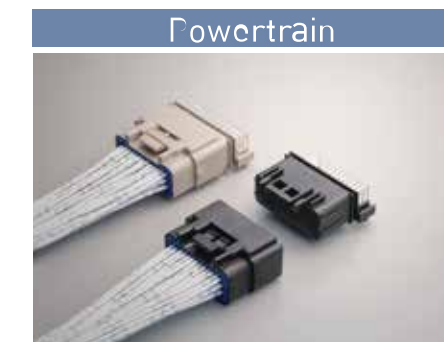


MX34/34R

Compact /High-density connector

- Board-to-cable, In-line

of Contacts
 1 row : 3, 5, 7 pos
 2 row : 8, 12, 16, 20, 24, 28, 32, 36, 40 pos



Powertrain



MX47

Compact waterproof connector

- Board to cable
- Available in different keying

of Contacts : 39 pos
 Rated Current : 3A
 Operating Temperature: -40 Deg. C + 125 Deg. C



MX23A

Compact waterproof connector

- Board to cable

#of Contacts: 12, 18, 26, 34, 36, 40pos
 Rated Current : 3A
 Dielectric withstanding voltage : 1000VAC

Antenna



CE2

Compact Coaxial Connector for Antenna

- For frequency band up to 1.5GHz.
- Connector available in board type, cable type, and in-line type

of Contacts : coaxial 1 pos., coaxial 1 pos. + power terminal 1 pos., and coaxial 2 pos
 Dielectric Withstanding Voltage : 1000 VAC
 Operating Temperature: -30 Deg. C + 105 Deg. C



MX62

Automotive USB 3.0 /Automotive High-speed Transmission Connector

- Differential line compatible with 5Gbps equivalent : 2 pair, differential line compatible with 480Mbps equivalent : 1 pair

of Contacts : 10 pos.
 Rated Current : 2.2A (power / GND line)
 Dielectric Withstanding Voltage : 1000 VAC (when mated)
 Operating Temperature: -40 Deg. C + 85 Deg. C



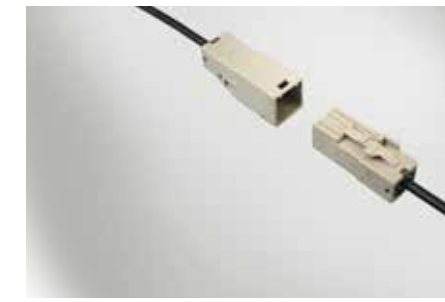
MX50/53/53B

HDMI Connector

- 2-row, 19 pos. (Type E)
- Supplied as a harness product to ensure transmission performance reliability.

of Contacts : 19 pos.
 Rated Current : 0.5A /terminal
 Dielectric Withstanding Voltage : 500 VAC (un-mated)
 Operating Temperature: -40 Deg. C + 85 Deg. C

In-Vehicle Infotainment



MX49/49B/49CB

USB 2.0 Standard Compatible Connector

- Transmission performance meets PC level USB 2.0 Standard.
- 2.0mm pitch, 2 rows, 4 position (2 signal lines, power, ground)
- Board connector is available in DIP type and reflow type

of Contacts : 4 pos
 Dielectric Withstanding Voltage : 1000 VAC (when mated)
 Operating Temperature: -40 Deg. C + 85 Deg. C



MX68

High-speed Connectors for Infotainment System

- Vehicle-mounted LVDS /GVIF (GVIF is a trademark of Sony Corporation) and can be used for differential signals (MX68A)
- Supports signals of USB2.0 (MX68B)

of Contacts : 2, 4, 8 pos.
 Rated Current : 2.2A (power / GND line)
 Operating Temperature: -40 Deg. C + 85 Deg. C



MX45D/45M

USB 2.0 Standard Compatible Connector

- USB 2.0 Type-A Harness type
- Transmission performance meets USB 2.0 specifications.

of Contacts : 4 pos
 Dielectric Withstanding Voltage : 500 VAC
 Operating Temperature: -40 Deg. C + 85 Deg. C

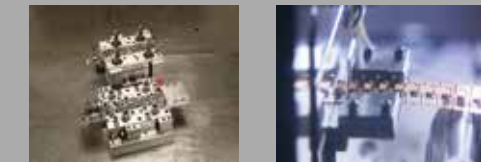
Manufacturing Technology Innovation

Innovation of production capacity by in-house production, automation and labor saving efforts

JAE has established a robust production system that focuses on local in-house production manufacturing 24 hours a day, 7 days a week. With automated operations and JAE designed labor-saving equipment mainly located in JAE Hirosaki, JAE Yamagata and other domestic plants, our production is unaffected by rapid foreign exchange fluctuations.



Turning



Molding



Assembly



DX07

USB Type-C Connector

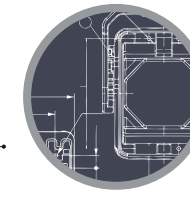
- 10Gbps SuperSpeed communication
- Reversible plug makes it possible to insert both ways.

of Contacts : 24 pos
 Rated Current : 0.5A /terminal
 Dielectric Withstanding Voltage : 500 VAC
 Operating Temperature: -40 Deg. C + 85 Deg. C

ADAS



Safety



Camera line



MX55/49C

Digital camera compatible connector

- Realizes transmission characteristic ideal for LVDS high-speed differential signal.
- Superior waterproof performance. (IP69K when mated and rear case 100kPa as an individual product)

of Contacts : 4 pos. (cable side), 6 pos. (PCB side)
Dielectric Withstanding Voltage : 500 VAC (when mated)
Operating Temperature : -40 Deg. C + 85 Deg. C



MX55J/49C

Digital camera compatible connector
(Compact type of existing MX55 series)

- Realizes transmission characteristic ideal for LVDS high-speed differential signal.
- Superior waterproof performance. (IP69K when mated and rear case 100kPa as an individual product)

of Contacts : 4 pos. (cable side), 4 pos. (PCB side)
Dielectric Withstanding Voltage : 500 VAC (when mated)
Operating Temperature : -40 Deg. C + 105 Deg. C



MX66

Water-proof FAKRA Coaxial Connector

- For frequency band up to 3GHz.(USCAR17)

of Contacts : 1 pos.
Superior waterproof performance. (USCAR2)
Dielectric Withstanding Voltage : 350 VAC
Operating Temperature : -40 Deg. C + 105 Deg. C

Safety



MX72A/72B

Squib Connector having Self Reject

- Compliance with the AK2 standard specification
- 3 kinds of key codes
- The contact part has 3 contact points with high reliability
- Angle and straight type



Driving Tomorrow's Automotive Technology



MX79A

LVDS /GVIF Transmission Compatible Connector

- 2 rows, 4 positions (2 signal lines, power, ground)
- 4 kinds of key codes

of Contacts : 4 pos. right angle type
Dielectric Withstanding Voltage : 1000VAC (When mated)
Operating Temperature : -40 Deg. C + 85 Deg. C



MX49A

LVDS /GVIF Transmission Compatible Connector

- 5 kinds of key codes
- Available for in-line type

of Contacts : 4 pos. right angle type
Dielectric Withstanding Voltage : 1000VAC (When mated)
Operating Temperature : -40 Deg. C + 85 Deg. C



MX49A

Water proof In-line connector LVDS /GVIF High-speed Transmission Compatible

- # of Contacts : 4 pos
- Dielectric Withstanding Voltage : 1000VAC (When mated)
- Operating Temperature: -40 Deg. C + 100 Deg. C



MX57A/57B/57C

0.64 (025) SRS Connector

- # of Contacts: MX57A Series: 30 pos., MX57B Series: 48 pos., MX57C Series : 79pos
- Operating Temperature : -40 Deg. C + 80 Deg. C



MX67A

Multipolar Smaller Connector for SRS-ECU

- Socket side is used 2 connectors
- Low insertion force by small lever
- Press-fit type of solder-less board mounting

of Contacts : 80, 104 pos, 4 rows



MX65

HSD Compatible Connectors

- Compatible with various types of differential signals such as vehicle LVDS, and USB2.0.
- MX65 is compatible with European de-fact standard /Shielded Twisted Quad(STQ) cables

of Contacts : 4 (STQ1), 8 (STQ2), and 6 (STQ1 + Max two discrete)
Operating Temperature : -40 Deg. C + 105 Deg. C



MX19

Compact waterproof in-line connector

- Mechanical lock system enabling complete mating with a click

of Contacts : 2, 4 pos
Rated Current : 5A
Dielectric Withstanding Voltage : 1000VAC



MX80

Compact waterproof in-line connector

- Compact Low-Profile Design
- IPX7 Water Resistant Sealing
- Current Rating of 7 Amps
- Terminal Position Assurance

of Contacts : 2, 3, 4 pos
Operating Temperature: -40 Deg. C + 125 Deg. C



MX36

Waterproof in-line connector for air bags
(Mechanical complete mating)

- Type with short-circuit contacts, which prevents erroneous function due to static electricity

of Contacts : 2, 4 pos
Dielectric Withstanding Voltage : 1000 VAC
Operating Temperature: -40 Deg. C + 105 Deg. C



MX37

In-line connector for air bags
(Mechanical complete mating)

- # of Contacts : 4 pos
- Dielectric Withstanding Voltage: 1000 VAC
- Operating Temperature: -40 Deg. C + 105 Deg. C

Corporate Data



Outline of Company

Company Name :

Japan Aviation Electronics Industry, Limited

Establishment of Business :

August 20, 1953

Head Office :

10-8, Dogenzaka 1-chome, Shibuya-ku, Tokyo 150-0043, Japan

Capital :

¥10.69 billion

Stock Exchange Listing :

Tokyo Stock Exchange, 1st Section

Activities :

Manufacturing and sales of connectors, user interface solutions, and aerospace and related electronics

List of ISO Quality Certifications

Connector :

ISO 9001 : 2015 JQA-QMA11894

User Interface Solutions :

ISO 9001 : 2015 JQA-0413

Aerospace :

ISO 9001 : 2015 JQA-0335

JIS Q 9100 : 2016 JQA-AS0005

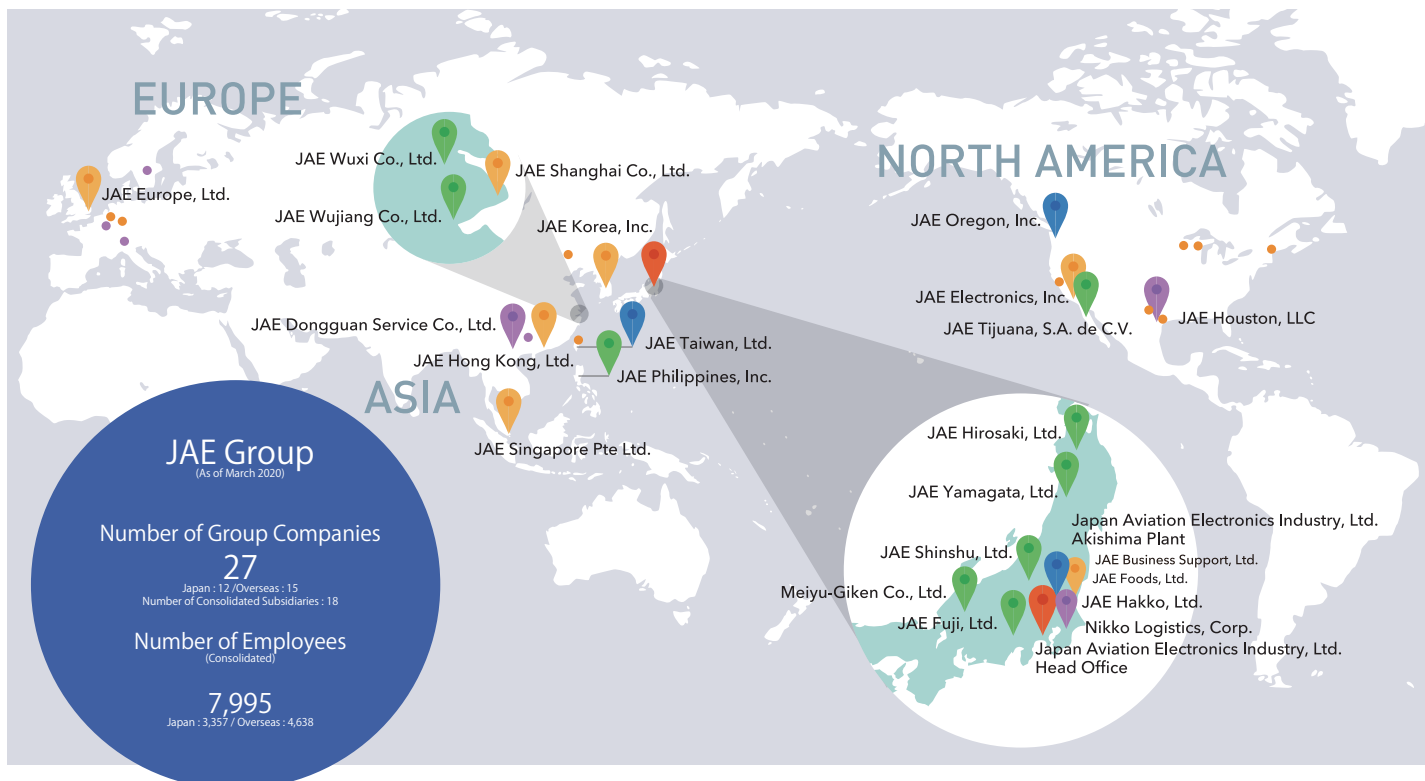
IATF 16949 : 2016 JQA-AU0261

Corporate Website : Corporate Profile [PDF] :



Global Network

We operate a network of development, manufacturing and sales to be able to respond to customer demand worldwide.



Europe

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Sales

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