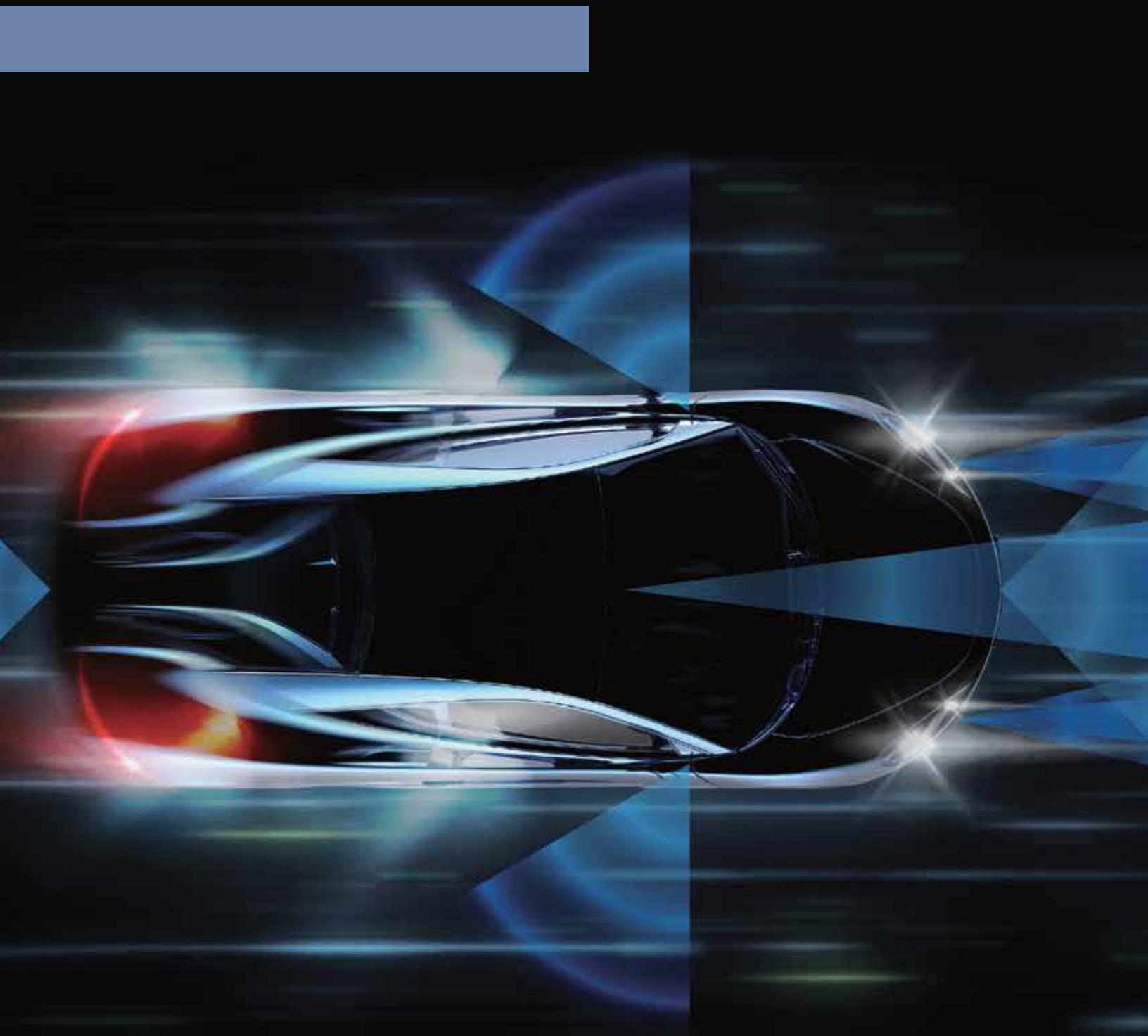


Automotive Solutions

ADAS, Connected Car, Infotainment, E-mobility

Products and Applications lineup



We provide solutions
for 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

E-mobility

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

Connected Car

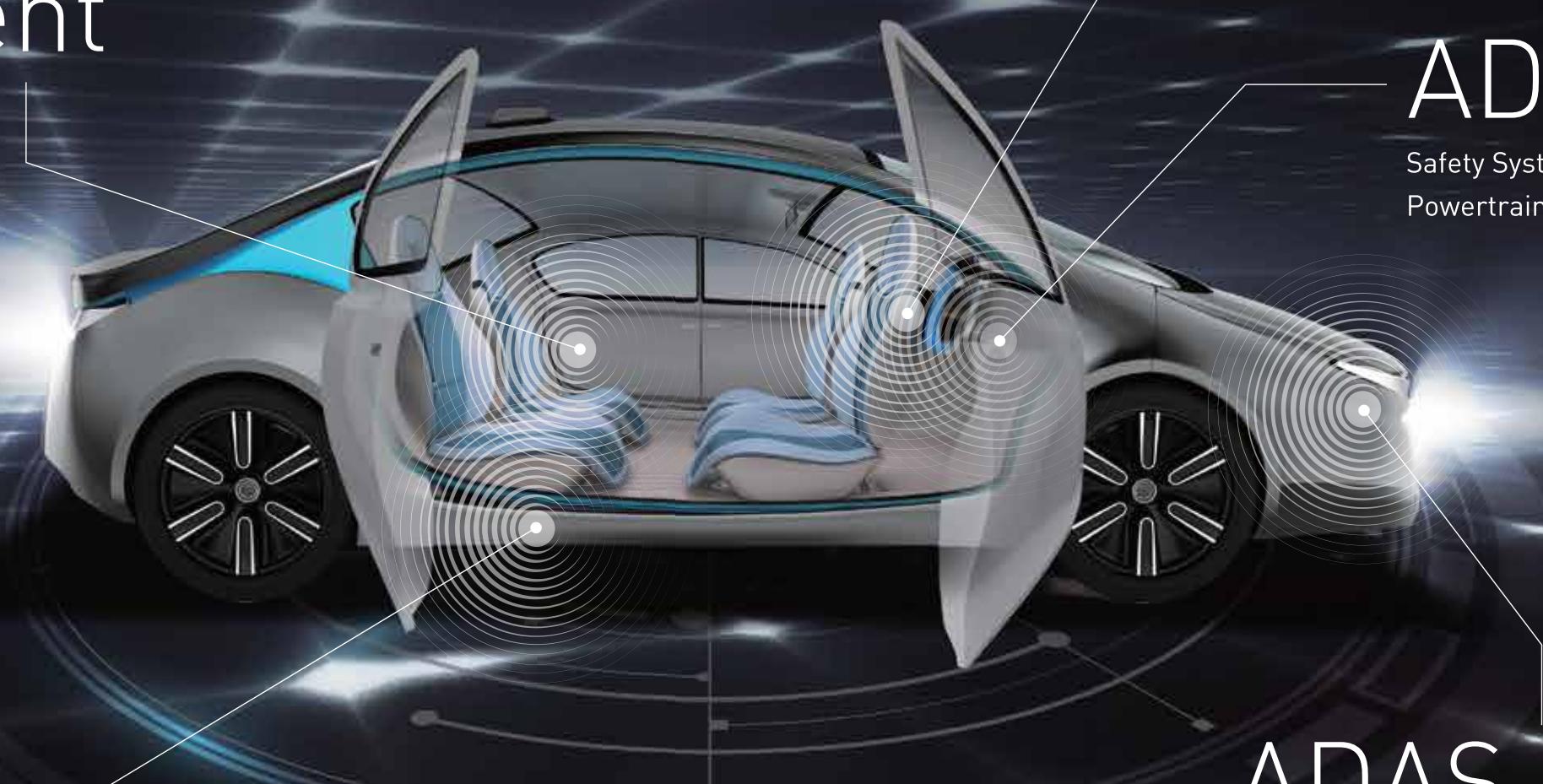
High quality automotive connectors for
infotainment and communication compatible with
each car maker's specific requirements

ADAS Safety/Powertrain

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

ADAS Camera/Activity Sensor

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



E-mobility



ADAS



MX57A/57B/57C

0.64 (025) SRS Connector

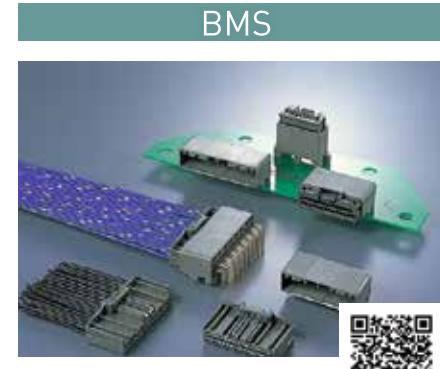
of Contacts : MX57A Series : 30 pos., MX57B Series : 48 pos., MX57C Series : 79pos.
Operating Temperature : -40 Deg. C + 80 Deg. C



MX47

Compact waterproof connector

- Board to cable
- Available in different keying
- # of Contacts : 39pos
- Rated Current : 3A
- Operating Temperature : -40 Deg. C + 125 Deg. C



MX34/34R

Compact / high-density connector

- Board-to-cable, in-line
- # of Contacts
 - 1 row : 3, 5, 7 pos.
 - 2 rows : 8, 12, 16, 20, 24, 28, 32, 36, 40 pos.



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



MX60A

Multipolar waterproof connectors for powertrain with lever

of Contacts : 177pos
2 blocks
Operating Temperature : -40 Deg. C + 105 Deg. C



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



MX37

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

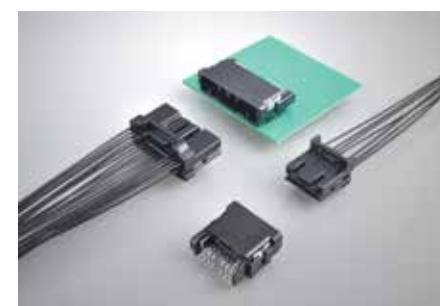
of Contacts : 4pos
Dielectric Withstanding Voltage: 1000 VAC
Operating Temperature : -40 Deg. C + 105 Deg. C



KW1/KW03

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

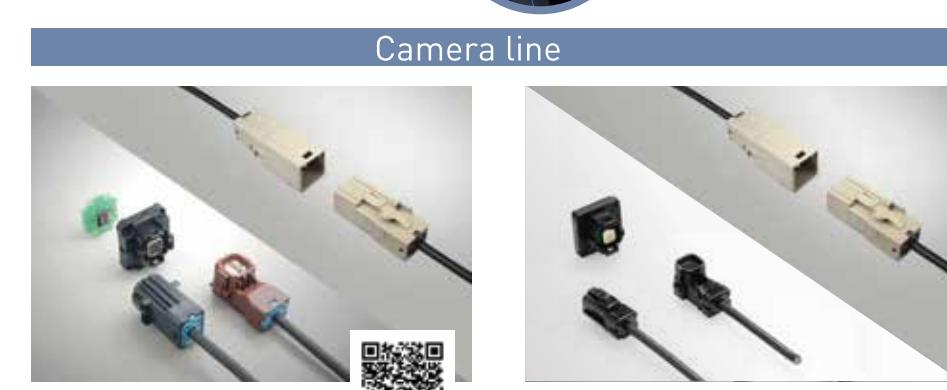
of Contacts : Power : 2 pos, Signal : 7 pos. (KW1) / 8 pos. (KW03)
Rated Current : Power : 125A (KW1) / 80A (KW03)
Rated Voltage : Power : DC500V
Mating Cycles : 10,000 cycles



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



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



MX49C

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

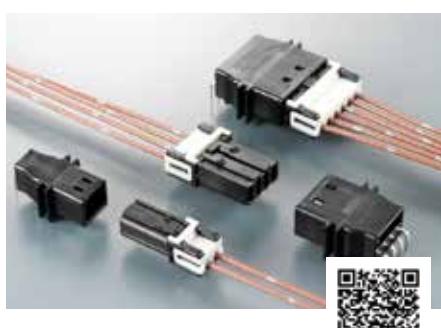
- Realizes transmission characteristic ideal for LVDS high-speed differential signal.
- Superior waterproof performance. (IP69K when mated and rear case 100kPa as an individual product)
- # of Contacts : 4 pos. (cable side), 4 pos. (PCB side)
- Dielectric Withstanding Voltage : 500 VAC (when mated)
- Operating Temperature : -40 Deg. C + 105 Deg. C



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



MX44

Compact waterproof connector

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



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



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



MX23A

Compact waterproof connector

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

Connected Car



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



Stamping



Molding



Assembly

Antenna



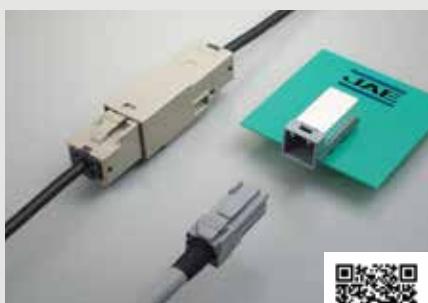
CE2

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

In-Vehicle Infotainment



MX49/49B/49CB

USB2.0 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

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

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

Infotainment User interface



MX50/53/53B

HDMI connector

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

of Contacts : 19 pos.
Rated Current : 0.5 A / terminal
Dielectric Withstanding Voltage : 500 VAC (un-mated)
Operating Temperature : -40 Deg. C + 105 Deg. C

MX45D/45M

USB2.0 transmission compatible connector

- USB2.0 Type-A harness type
- Transmission performance meets USB2.0 specifications.

of Contacts : 4 pos.
Dielectric Withstanding Voltage : 500 VAC
Operating Temperature : -40 Deg. C + 125 Deg. C

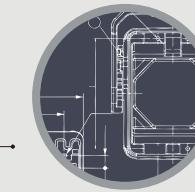
DX07

USB Type-C Connector

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

of Contacts : 24 pos
Rated Current : Terminal No. A1, A4, A9, A12, B1, B4, B5, B9, B12 are DC 1.25 A (maximum), Others are DC 0.25A
Rated Voltage : AC20 V.r.m.s.
Dielectric Withstanding Voltage : 100 VAC
Operating Temperature : -30 Deg. C + 80 Deg. C

Development



Camera line / Safety others



MX66

Water-proof FAKRA coaxial connector

- For frequency band up to 3GHz. (USCAR17)
- # of Contacts : coaxial 1 pos.
- Superior waterproof performance. (USCAR2)
- Dielectric Withstanding Voltage : 350VAC
- Operating Temperature : -40 Deg. C + 105 Deg. C



MX72A/72B

Squib connectors 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



MX80

Sealed Compact Automotive Connector

- Compact Low-Profile Design
- IP67 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



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



Driving Tomorrow's Automotive Technology

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 :

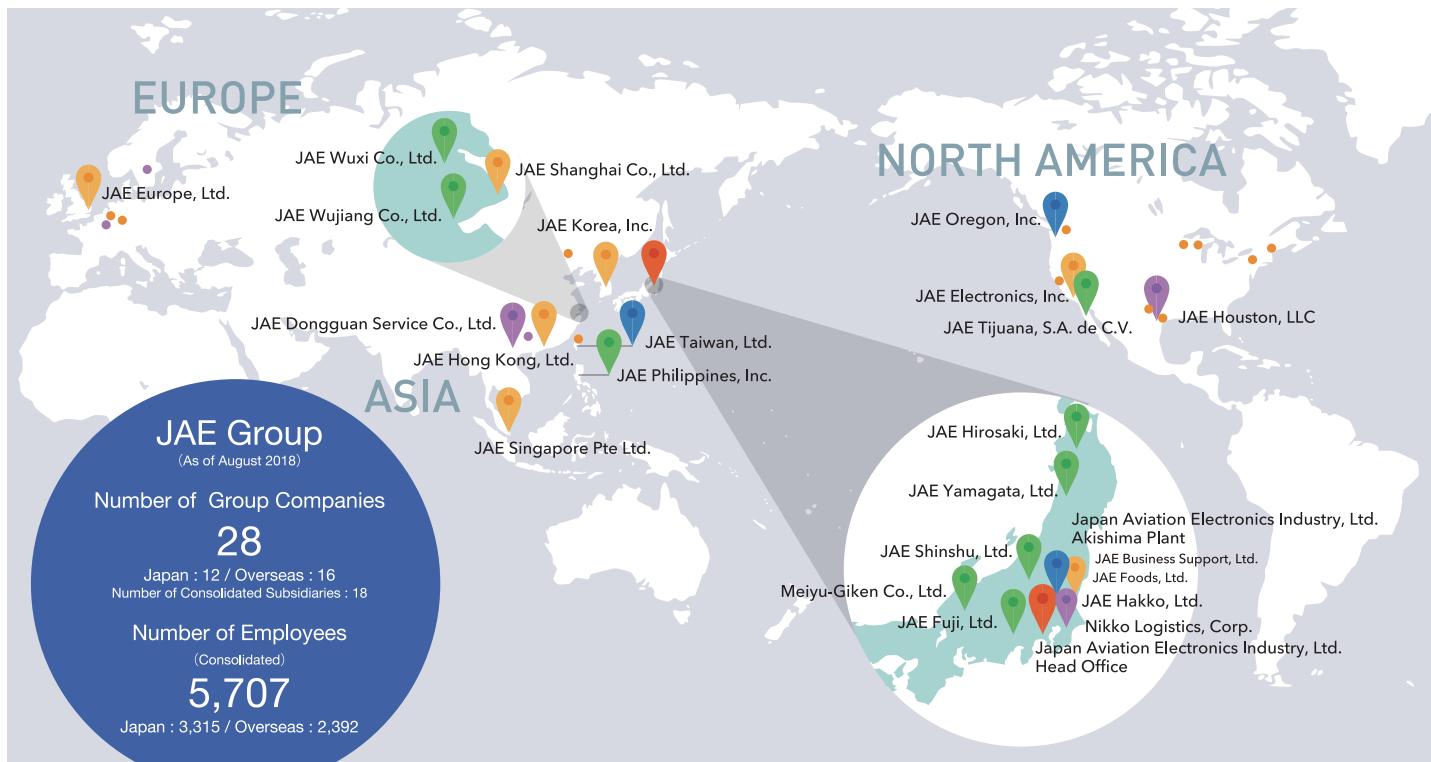
ISO 9001 : 2015 JQA-0335
JIS Q 9100 : 2016 JQA-AS0005
IATF 16949 : 2016 JQA-AU0261

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

JAE Europe, Ltd. Sales
Royal Pavilion, Tower 3, First Floor, Wellesley Road, Aldershot, Hampshire, GU11 1PZ, UK
Tel : +44 1252 55 11 00 Fax : +44 1252 55 11 10

North America

JAE Oregon, Inc. Development / Manufacturing
11555 S.W. Leveton Drive, Tualatin, OR 97062, U.S.A.
Tel : +1-503-692-1333 Fax : +1-503-692-4193

JAE Electronics, Inc. Sales
142 Technology Drive, Suite 100, Irvine, CA 92618-2430, U.S.A.
Tel : +1-949-753-2600 Fax : +1-949-753-4706

JAE Tijuana, S.A. de C.V. Manufacturing
Calle Cerro Colorado 16650 Int. 1 y 2.
Colonia Niños Heroes Este. Tijuana, Baja California, C.P. 22120, Mexico
Tel : +52-664-689-7484 Fax : +52-664-689-7486

JAE Houston, LLC Services / Other
1100 W. Park One Dr., Sugar Land, TX 77478-2578, U.S.A.
Tel : +1-281-325-5760

Asia

JAE Taiwan, Ltd. Development / Manufacturing
No.35, 20th, Rd., Industrial Park, Taichung, 40850, Taiwan
Tel : +886-4-2359-3411 Fax : +886-4-2359-3697

JAE Shanghai Co., Ltd. Sales
8F, Jin Hong Qiao Business Building, No.8, 555 Gubei Road, Chang Ning District, Shanghai, 200051 P.R.China
Tel : +86-21-6236-0322 Fax : +86-21-6236-1292

JAE Philippines, Inc. Manufacturing
JAE Philippines Building, Linares Extension, Gateway Business Park, Javalera, General Trias, 4107 Cavite, Philippines
Tel : +63-46-433-0285 Fax : +63-46-433-0287

JAE Wuxi Co., Ltd. Manufacturing
No.2, Xinhua Road, Wuxi National Hi-Tech Industrial Development Zone, Wuxi, Jiangsu, 214028 P.R.China
Tel : +86-510-8521-5888 Fax : +86-510-8521-5777

JAE Hong Kong, Ltd. Sales
Suites 1407-11, 14/F., Tower 2, The Gateway, 25 Canton Road, Tsimshatsui, Kowloon, Hong Kong
Tel : +852-2723-7782 Fax : +852-2723-9028

JAE Singapore Pte Ltd. Sales
33 Tannery Lane, #02-01 Hoesteel Industrial Building, Singapore 347789
Tel : +65-6748-1332 Fax : +65-6748-2920

JAE Wujiang Co., Ltd. Manufacturing
Pangjin Road, Wujiang Economic and Technological Development Zone Suzhou, Jiangsu, 215200 P.R.China
Tel : +86-512-6349-6123 Fax : +86-512-6349-6777

JAE Dongguan Service Co., Ltd. Services / Other
Rm801, 8/F, Changan Taishang Bldg., Dezhengzhong Road, Changan Town, Dongguan, Guangdong, 523850 P.R.China
Tel : +86-769-8535-6736 Fax : +86-769-8535-6737

JAE Korea, Inc. Sales
13F, NamGang B/D, 291, Gangnam-daero, Seocho-gu, Seoul, 06729, Korea
Tel : +82-2-6230-1100 Fax : +82-2-6230-1190

Japan Aviation Electronics Industry, Ltd.

10-8, Dogenzaka 1-chome, Shibuya-ku, Tokyo 150-0043, Japan
Tel : +81-3-3780-2711 Fax : +81-3-3780-2733 <http://www.jae.com>