

# MX72A/B Series

## Self Rejecting AK2 Squib Connectors

CONNECTOR

MB-0347-2

Nov. 2021

**RoHS Compliant**

The MX72A/B Series squib connectors are AK2 standard compatible interfaces that are quickly becoming the global standard for automotive airbags. Offered in straight and right angle models, their unique design offers added convenience when working within tight spaces. An exclusive, self-rejecting mechanism maximizes reliability by using a spring driven structure to detect and reject incomplete mating. Three key options are available for installations where multiple MX72A/B interfaces are employed. MX72A/B Series connectors are compatible with USCAR and ISO standards.

\* Interface standards : USCAR : 999-U-002-Z02, ISO : ISO-19072-1,4

The MX72A/B Series connectors are only sold as a harness assembly.  
The connector components are not sold separately.

### Applications

Airbag inflator, Automotive Safety Restraint Systems (SRS)

### Features

- Spring-loaded, self-rejecting structure ensures complete mating
- Convenient quick connect/disconnect features enhance serviceability
- Test probe openings allow quick quality assurance testing
- Mating key combinations available in three types
- Gold plated female terminals provide 3-points of contact for improved reliability
- Applicable wire types include FLRY-A,B and wire sizes 0.35 mm<sup>2</sup> to 0.5 mm<sup>2</sup>

General Specifications

Number of contacts	2 positions
Applicable test standards	USCAR-2, USCAR-21
Operating Temperature Range	-40°C ~ +100°C
Connector Insertion Force	45N max
Contact Resistance	10 mΩ max
Applicable Wire size (mm <sup>2</sup> )	FLRY-A,B 0.35, 0.5

Note1 : Please contact JAE regarding compliance with other specifications.

Materials and Finishes

■ MX72A Right Angle Socket Connector

Component	Material / Finish
Socket Housing	PBT - GF15%
Cover	PBT - GF15%
Slider	POM
Spring	Music wire
Ferrite	NiZn
Socket terminal	Copper alloy / partial Au plating

■ MX72B Straight Socket connector

Component	Material / Finish
Socket Housing	PBT - GF15%
Cover 1	PBT - GF15%
Cover 2	PBT- GF15%
Slider	POM
Collar	POM
Spring	Music wire
Ferrite	NiZn
Socket terminal	Copper alloy / partial Au plating

Harness product name composition

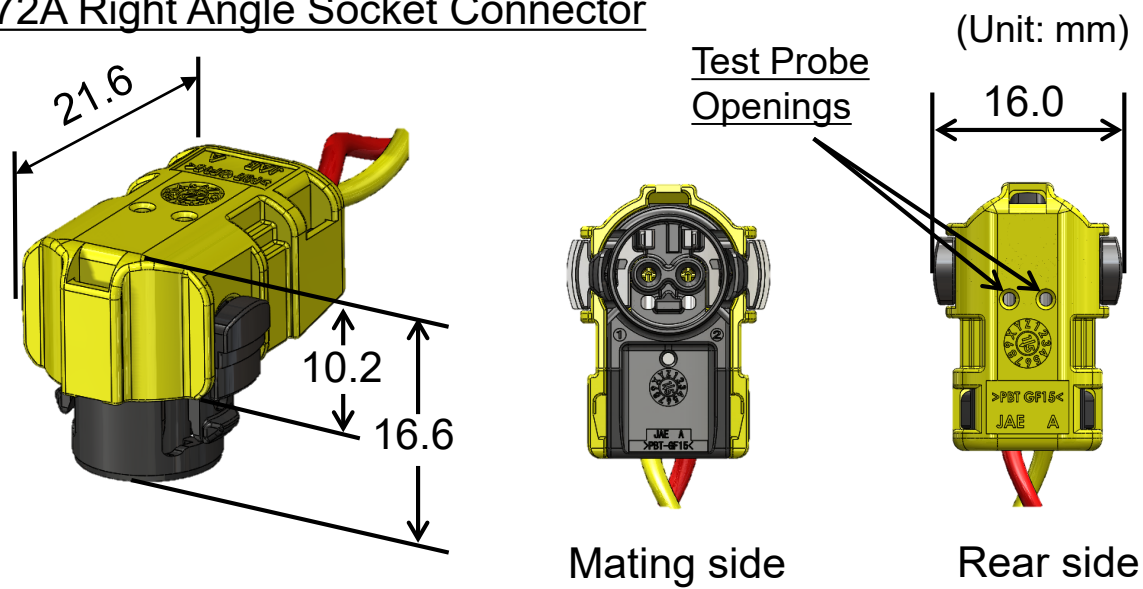
MX72A 1 FA35 BU YA 03 L4580 A  
①      ②      ③      ④      ⑤ ⑥      ⑦      ⑧

No.	Item	No.	Item	No.	Item
①	Connectors(A/B)	④	Wire colour 1	⑦	Wire length
②	Coding number(1,2,3)	⑤	Wire colour 2	⑧	Modify code
③	Wire type	⑥	Twist pitch		

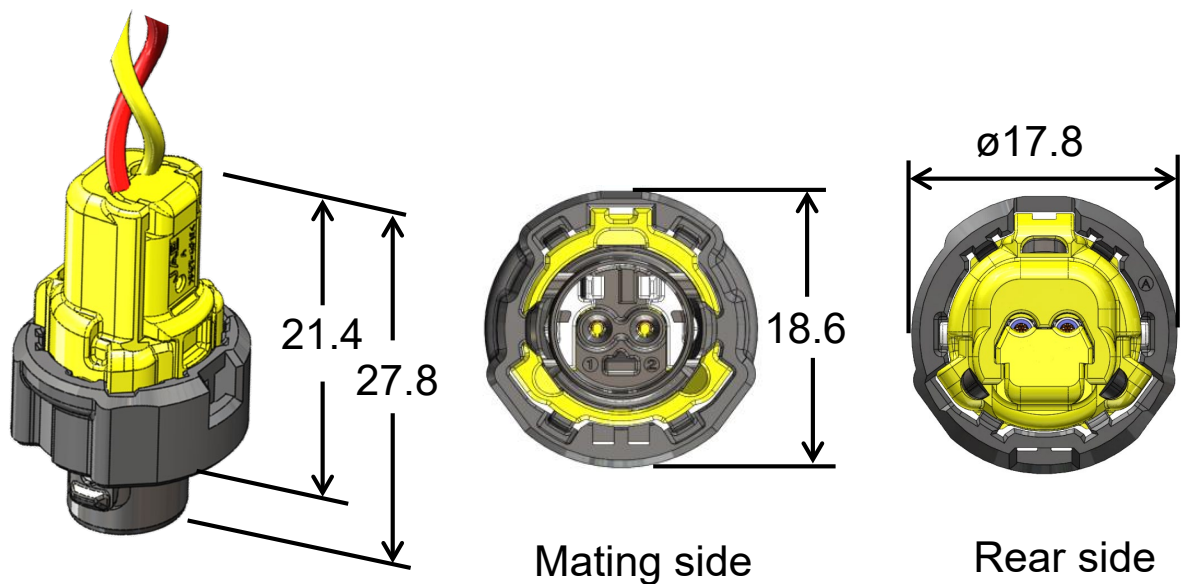
Note2 : Please contact JAE for detailed specifications of the harness products.

Outer Dimensions

MX72A Right Angle Socket Connector



MX72B Straight Socket Connector



Key Code Combinations (retainer side)



Note3: Retainers are not provided by JAE.

Connector technical documents

Specifications: JACS-11243  
Handling Instructions: JAHL-11243

Connector Part Numbers and Drawing Numbers

Connector Type	Part Number	Drawing Number
MX72A Right Angle Socket Connector (Code 1)	MX72A002SR1	SJ117044
MX72A Right Angle Socket Connector (Code 2)	MX72A002SR2	SJ117045
MX72A Right Angle Socket Connector (Code 3)	MX72A002SR3	SJ117046
MX72B Straight Socket Connector (Code 1)	MX72B002SR1	SJ117930
MX72B Straight Socket Connector (Code 2)	MX72B002SR2	SJ117931
MX72B Straight Socket Connector (Code 3)	MX72B002SR3	SJ117932

Note4: The MX72A/B Series connectors are only sold as a harness assembly. The connector components are not sold separately.

**Notice:**

1. The values specified in this brochure are only for reference. The products and their specifications are subject to change without notice. Contact our sales staff for further information before considering or ordering any of our products.  
For purchase, a product specification must be agreed upon.

2. Users are requested to provide protection circuits and redundancy circuits to ensure safety of the equipment, and sufficiently review the suitability of JAE's products to the equipment.

3. The products presented in this brochure are designed for the uses recommended below.  
We strongly suggest you contact our sales staff when considering use of any of the products in any other way than the recommended applications or for a specific use that requires an extremely high reliability.

(1) Applications that require consultation:  
(i) Please contact us if you are considering use involving a quality assurance program that you specify or that is peculiar to the industry, such as:  
Automotive electrical components, train control, telecommunications devices (mainline), traffic light control, electric power, combustion control, fire prevention or security systems, disaster prevention equipment, etc.  
(ii) We may separately give you our support with a quality assurance program that you specify, when you think of a use such as :  
Aviation or space equipment, submarine repeaters, nuclear power control systems, medical equipment for life support, etc.

(2) Recommended applications include:  
Computers, office appliances, telecommunications devices (terminals, mobile units), measuring equipment, audiovisual equipment, home electric appliances, factory automation equipment, etc.

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