

# MX72C/D Self Rejecting Squib Connector without shorting bar

CONNECTOR  
MB-0367-2  
Nov.2021

## RoHS Compliant

### Abstract

Following the success of our AK2 compatible self-rejecting connectors (MX72A/B), JAE has now developed self-rejecting connectors (MX72C/D) without shorting bar, suitable for numerous SRS and pyrotechnic applications.



With a focus on system cost reductions, MX72C/D interface is designed without a shorting bar (no shunt installed). This interface complies with USCAR and ISO standards(see below). It is also commonly referred to as AK3, ABX-5.

For this interface without shorting bar, JAE has successfully adapted the industry proven self-rejecting mechanism from MX72A/B to develop MX72C/D. This connector system ensures mating by implementing a reliable one-step mating process. Its internal spring-loaded slider mechanism engage only when the connector is correctly installed. If the connector is partially mated, it actively self-rejects by springing away plug from receptacle.

\* Interface standards : USCAR : 999-U-002-1-Z04, ISO : ISO-19072-1,5

The MX72C/D Series connectors are only sold as a harness assembly. The connector components are not sold separately.

### Applications

Airbag inflators, seat belt pre-tensioners and retractors, pyrotechnic devices

### Feature

- Spring-loaded, self-rejecting mechanism ensures complete mating
- 4 colour key code models prevent incorrect SRS device mating
- Gold plated female terminals provide stable 3-points of contact reliability
- Applicable wire sizes include 0.35mm<sup>2</sup>, 0.50mm<sup>2</sup>
- Convenient quick connect and quick disconnect design
- Clear audible and tactile feedback for connection assurance
- Gaps and apertures minimized to protect from dust and debris ingress

## 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-B 0.35, 0.5

Note1 : Please contact JAE regarding compliance with other specifications.

## Materials and Finishes

### ■ MX72C 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

### ■ MX72D 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

**MX72C 1 FB35 BUYA 03L 4580A**

①      ②      ③      ④      ⑤      ⑥      ⑦      ⑧

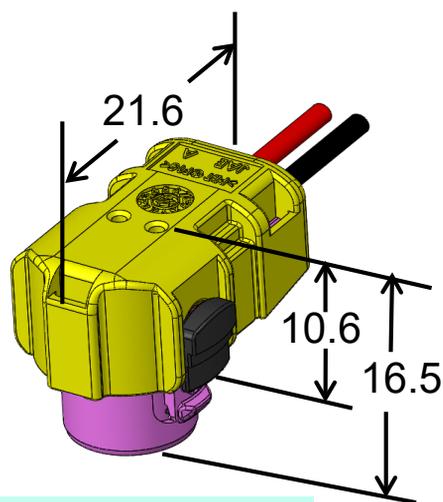
No.	Item	No.	Item	No.	Item
①	Connectors(C/D)	④	Wire colour 1	⑦	Wire length
②	Coding numbers(1,2,3,4)	⑤	Wire colour 2	⑧	Modify code
③	Wire type	⑥	Twist pitch		

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

Outer Dimensions

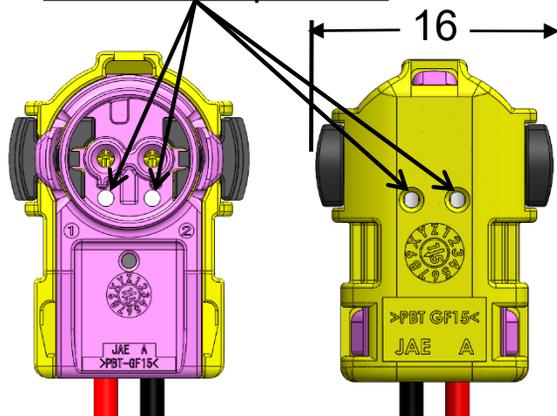
■ MX72C Right Angle Socket connector

(Unit: mm)



Perspective View

Test Probe Apertures

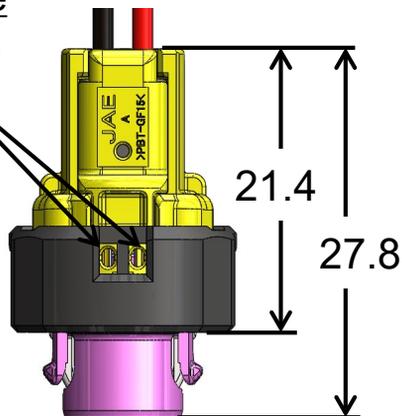


Mating side

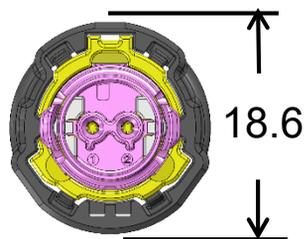
Rear side

■ MX72D Straight Socket Connector

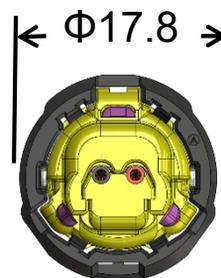
Test Probe Apertures



Side View

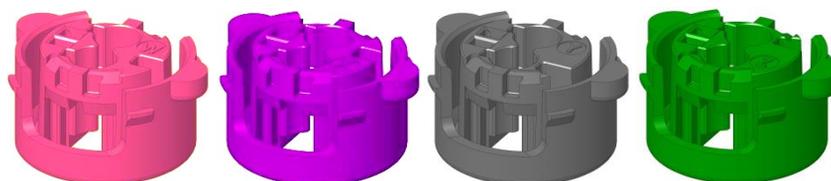


Mating side



Rear side

■ Key Coding Combinations (retainer side)



Coding W

Coding X

Coding Y

Coding Z

Note3: Retainers are not provided by JAE.

## Connector technical documents

Specifications : JACS-11286

Handling Instructions : JAHL-11286

## Connector Part Numbers and Drawing Numbers

Connector Type	Part Number	Drawing Number
MX72C Right Angle Socket Connector (Coding W)	MX72C002SRW	SJ118420
MX72C Right Angle Socket Connector (Coding X)	MX72C002SRX	SJ118421
MX72C Right Angle Socket Connector (Coding Y)	MX72C002SRY	SJ118422
MX72C Right Angle Socket Connector (Coding Z)	MX72C002SRZ	SJ118649
MX72D Straight Socket Connector (Coding W)	MX72D002SRW-2	SJ118638
MX72D Straight Socket Connector (Coding X)	MX72D002SRX-2	SJ118639
MX72D Straight Socket Connector (Coding Y)	MX72D002SRY-2	SJ118640
MX72D Straight Socket Connector (Coding Z)	MX72D002SRZ-2	SJ118641

**Note4:** The MX72C/D 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.

## **Japan Aviation Electronics Industry, Limited**

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