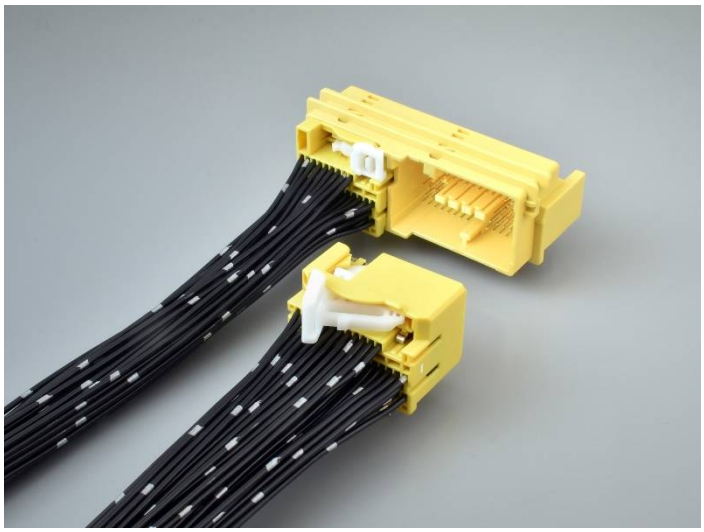
MX67A Series

High Density Automotive Connectors for Safety Restraint Systems

CONNECTOR
MB-0344-1
July 2019

RoHS Compliant



The MX67A Series are compact, high density connectors designed for automotive Safety Restraint System (SRS) Electronic Control Units (ECU's), with up to 100 signal line contacts.
The MX67A provides an industry solution to the increasing number of SRS system devices implemented in today's standard vehicle. For added convenience, the structure is optimized for easy mounting with a built-in lever to reduce insertion and extraction forces. Press-fit type contacts make it easy to terminate pins without the need for soldering.

Applicable Markets

Vehicle-mounted SRS-ECU's

Features

- 2 blocks offer high pin counts of 45 positions + 59 positions
- 100 signal lines available
- Incomplete mating detection pins located on each block
- Lever operating force of 66.6N maximum during mating
- Easy mounting with press-fit type contacts that do not require soldering
- The Connector securely fastens to the unit case flange area
- Applicable wire sizes are AVSS 0.3mm^2 to 0.5mm^2
- Tin or gold plating options available for 0.64 terminals

General Specifications

Number of Contacts	100 positions (2 blocks) + 4 positions for correct mating detection
Operating Temperature Range	-40°C to +120°C (Including temperature rise due to operation)
Rated Current	3 A
Lever Operation Insertion Force	66.6N max.
Applicable Wire	Compatible with tin and gold plating contacts. AVSS 0.3mm^2~0.5mm^2

Materials and Finishes

■ Angle Pin Header

Components	Materials / Finishes
Pin Housing	30%GF PBT
Terminal	Phosphor bronze / Sn plating, Au plating
Mating Detection Terminal	Phosphor bronze / Sn plating

■ Socket Housing

Components	Materials / Finishes
Socket Housing	PPE + PA66
Mating Lever	POM - GF25
Retainer	PBT - GF30
Short-circuit Terminal	Phosphor bronze / Au plating
Mating Detection Pin	Copper alloy / Sn plating

■ Socket Terminal

Components	Materials / Finishes
Socket Terminal	Copper alloy / Sn plating, Au plating

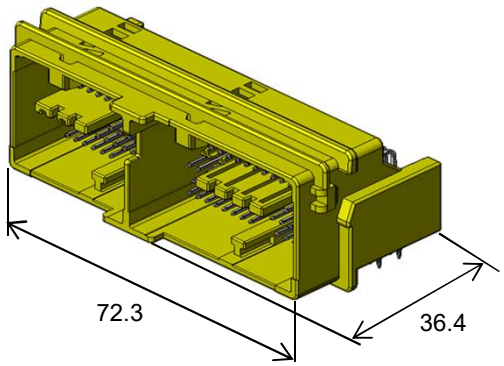
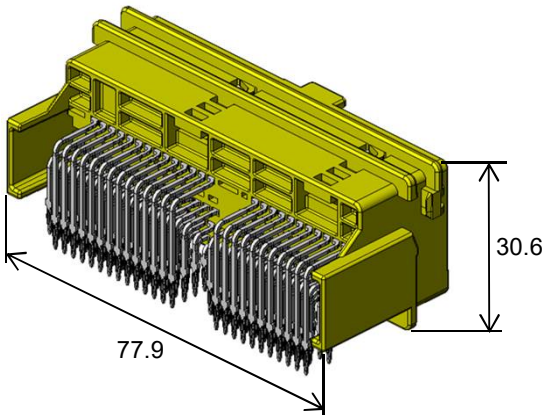
Outer Dimensions

(Unit: mm)

■ Pin Header

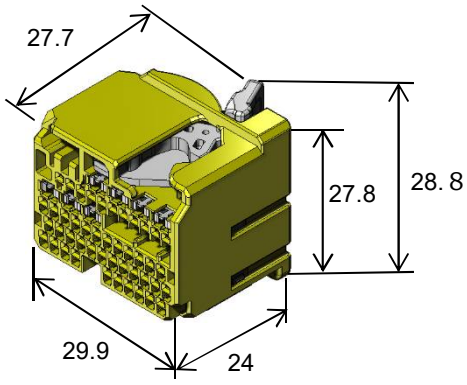
Part Number: MX67A104ZPA

2 positions for correct mating detection on each block
(100 positions + 4 positions in total)

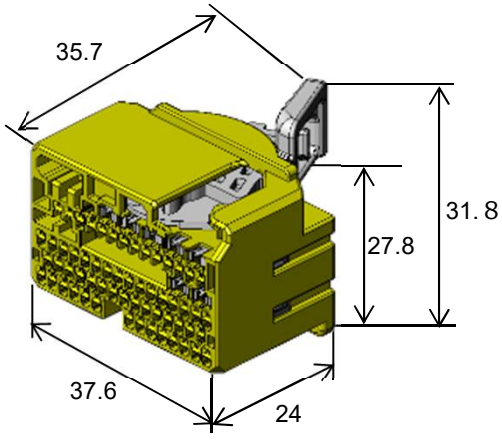
Mating side	Rear side
	

■ Socket Housing

Part Number: MX67S045SQA

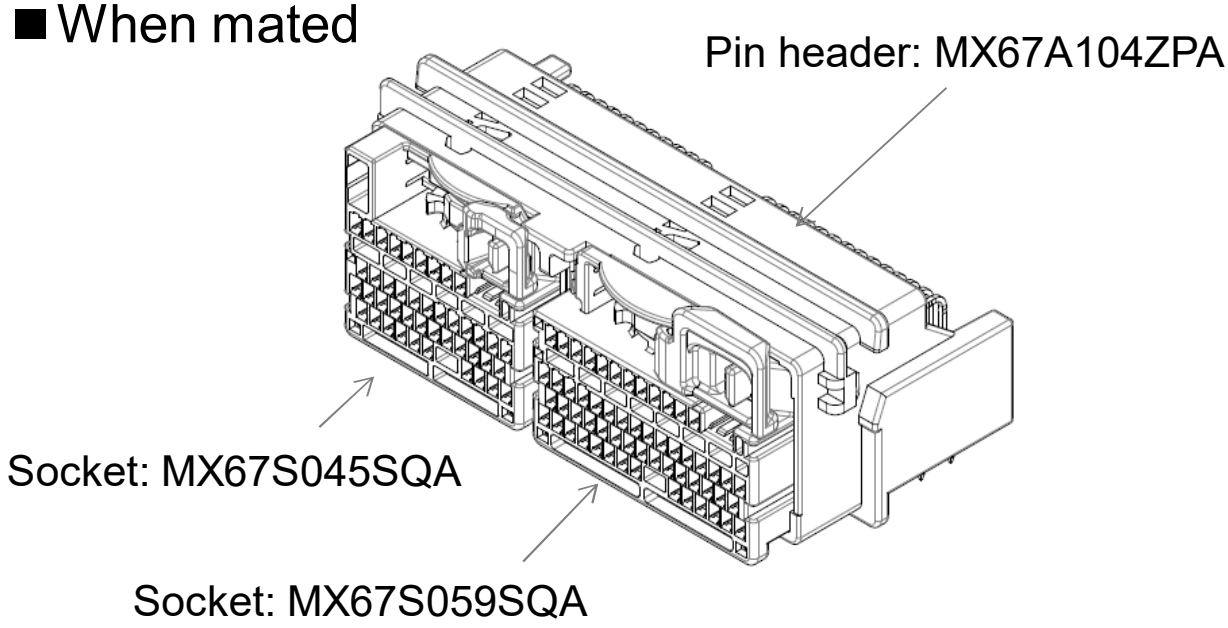


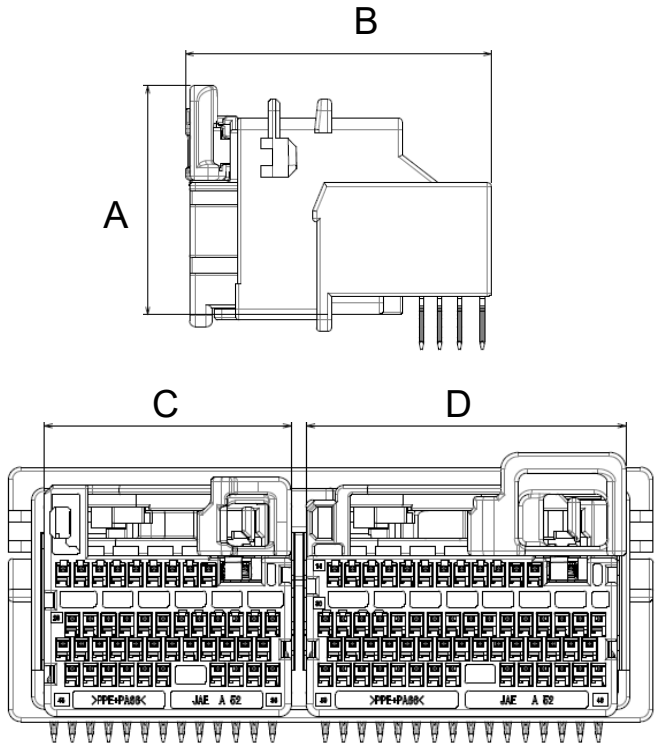
Part Number: MX67S059SQA



Outer Dimensions

■ When mated





(Unit: mm)

	Dimension A	Dimension B	Dimension C	Dimension D
Dimensions when mated	30.2	40.2	29.9	38.7

Part Numbers and Drawing Numbers

Connector Type	Part Number	Drawing Number
Angle pin header (80 positions) (Product without pins for signal terminal)	MX67A080ZPA	SJ117804
Angle pin header (104 positions)	MX67A104ZPA	SJ117803
Socket connector (45 positions)	MX67S045SQA	SJ116023
Socket connector (59 positions)	MX67S059SQA	SJ116024
Socket terminal (Sn 0.3mm^2)	M34S75C4F1	SJ038527
Socket terminal (Sn 0.5mm^2)	M34S75C4F2	SJ038528
Socket terminal (Au 0.3mm^2)	MX67S75C4P1	SJ116025
Socket terminal (Au 0.5mm^2)	MX67S75C4P2	SJ116026

Specifications: JACS-11121
Handling Instructions: JAHL-11121

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* The specifications in this brochure are subject to change without notice. Please contact JAE for information.