

MX80 Series (Compact Waterproof Automotive In-line Connector)

Compact Waterproof Automotive In-line Connector



The MX80 Series is a family of compact waterproof automotive in-line connectors.

They are miniaturized by design and ideal for use in areas where vehicle mounting space is limited. MX80 Series connectors support a varying wire size range for exceptional power and control. In addition, variations such as alternate key codes, IPX9K type, and more will be added in the future.

Features

- ISO/JASO/EWCAP/VDA standard 0.64 mm tab size
- Terminal Position Assurance (TPA) on pin and socket housing
- USCAR-2 and LV214 Tested
USCAR: United States Council for Automotive Research
- IPX7 ingress protection rated (4 positions also available in IPX9K)
- Compatible with 2.54mm pitch pin contacts
- Integrated bracket supports chassis fastening vehicle clips

Applications

Example automotive applications include but are not limited to side view mirrors, interior/exterior lighting, sunroof modules, body sensors, and peripheral devices.

General Specifications

Number of Positions	2, 3, 4, 6, 8, (10) and 12 positions (6 positions is socket only. 10 positions option is a 12 position with 2 cavities plugged)
Contact Pitch	2.54 mm
Tab Size	025 (0.64 mm)

Rated Current (A) (Ambient temperature is 80°C. Contact JAE for rating at other temperatures)	Terminal only	2 pos.	3 pos.	4
	pos. 12 pos.			
	0.13 mm ²	4.3	4.2	3.7
	3.6	2.4		
	0.35 mm ²	7.5	7.1	6.4
	5.8	4.1		
	1.0 mm ²	11.4	10.3	10.0
	9.5	6.6		
Applicable Cable	0.13 to 1.0 mm ² nominal cross-section Cable types recommended: (FLRY-A, FLRY-B, AESSX, FLCUSNRY, etc.)			
Operating Temperature Range	- 40 deg. C to + 125 deg. C (This range includes temperature increase from current load.)			
Insulation Resistance	100 MΩ min. at 500V DC (1 minute)			
Vibration Classification	USCAR-2 : V2, LV214 : Severity 3			

Notice

1. The values specified in this web site 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. Please contact us if you are considering use involving a quality assurance program that you specify or that is peculiar to the industry. Also contact us regarding the details of use, usage, specification before considering or ordering any of our products.
3. 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.