

MSC MicroSealedConnector

**Robust and Ready for
the Toughest Conditions**



**HIRSCHMANN
AUTOMOTIVE**

Product Overview MSC Connector Family

Hirschmann Automotive is meeting the requirements of automotive manufacturers for extremely compact and technically most demanding electrical connectors with the MSC family. The MSC – MicroSealedConnector – family is a standard product. Development periods for new numbers of poles and technical tool implementation are thus shortened dramatically. This connector can be used in a diverse range of applications in vehicles thanks to its miniaturized design and robustness. Characteristics and advantages of the MSC family:

- miniature in 2.54 mm pitch
- vibration-resistant
- mechanically very stable thanks to overmolding
- no caps necessary to protect against environmental influences
- tension relief
- watertight

Technical parameters

- Intended installation area: body/engine compartment
- Operating temperature: –40°C to +130°C depending on wire insulating material and application

Electrical parameters

- 1.2 mm contact system
- Contact surface: tin, silver, gold
- Current capacity (maximum values of the contact system)
 - Derating: 20 A/80°C
 - Ag, Au surface: 19/16 A
 - Derating 20 A/80°C
 - Sn surface: 17/14 A

Higher currents are approved depending on OEM. Maximum permissible currents must be assessed in combination with the conductor cross-sections used.

Minimum coupling retention force in the receptacle

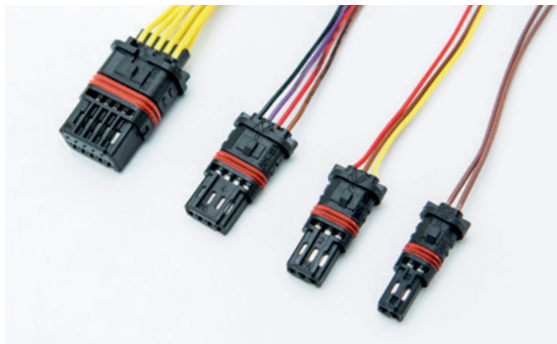
- Frictional connection: > 60 N

Usable cable cross sections

0.14 to 0.75 mm² (FLR)
Wire insulating material is selected according to requirement profile

Tests according to AK requirement specifications

- PG 7 Retention force and functional safety of housings
- PG 17A Dynamic loading
- PG 19 Environmental simulation
- PG 20A Climatic loading of housings
- PG 21A Long-term temperature storage
- PG 22B Chemical resistance, extended test
- PG 23 Watertightness



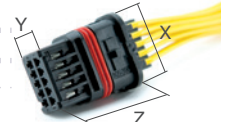
1-row MSC product family 1.2 mm / 2 to 6 way versions

Cavities	X	Y	Z	Socket housing	Pin housing
2	11.0	8.5	28.0	805-183-...	805-184-...
3	13.5	8.5	28.0	805-185-...	805-186-...
4	16.0	8.5	28.0	805-187-...	805-188-...
8	26.6	9.0	28.0	807-999-...	



2-row MSC product family 1.2 mm

Cavities	X	Y	Z	Socket housing	Pin housing
10	21.5	13.5	33.0	805-396-...	805-397-...



Optional products on request

1-row				2-row			
Cavities	X	Y	Z	Cavities	X	Y	Z
5	19.0	9.0	28.0	4	13.5	13.0	33.0
6	21.5	9.0	28.0	6	16.0	13.0	33.0
				8	18.5	13.0	33.0
				12	24.5	13.5	33.0
				14	27.0	13.5	33.0
				16	30.0	13.5	33.0
				18	32.5	13.5	33.0
				20	35.0	13.5	33.0

Interface drawings

Rows	Cavities	Drawing number
1	2–4	808-027-...-00
	5–8	808-047-...-00
2	10	808-139-...-00

Holder for pin housing

Rows	Cavities	Drawing number
1	2–4	808-028-...-00

