SICMA Mini-sealed Connector

Housing family



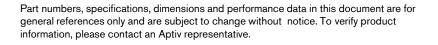


Application: body and chassis, engine compartment

Key features & benefits

- Standard commodity connection system
- · Reliable inline harness sectioning connectors featuring a mechanical coding
- Compatible with standard interface footprint of several devices used in automotive and commercial vehicles
- Water tightness of high level including jet spray
- · Compact design around 1.5 mm terminal
- 2, 3, 4, 5, 6 way connectors use 1.5 terminals
- Additional hybrid 6 way use 1.5 & 2.8 mm terminals

Performance characteristics	
Sealing protection (up to)	IP 67 & IPx9K
Temperature range (up to)	-40°C to +125°C
Vibration performance (up to)	12 g
Terminal retention force (up to)	> 100 N
Terminal insertion force (up to)	< 15 N
Connector mating force	< 80 N
Available cavity configurations	2, 3, 4, 5, 6, 6 (Mixed) way





SICMA 3 Plus & SICMA 4 - 1.5 Series

Terminal family



* SICMA 3 Plus are female terminals and SICMA 4 are male terminals

Key features & benefits

at 100°C up to approx.:

- Reliable contact pressure through life time of the vehicle
- Standard well known terminal cavity compatibility.
- · Clean body which prevents of tearing the mat seal
- · One piece terminal with high pressure contact
- Several crimping gauges for good slow motion performance and vibrations

Performance characteristics	
Contact resistance	$<$ 2 m Ω
Contact mating force	< 4 N
Contact unmating force	<3 N
Range of wire gauge	0.13-2 mm ² / 24-14 AWG
Current carrying capacity for 2 mm ²	
at 23°C up to approx. :	26 A
at 85°C up to approx. :	15 A

12 A

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Connector design overview

Benefits

- Easy assembly
- · High industry compatibility
- Compact package for space efficiency
- Robust performance to ensure long time duration

Design features

- CPA (Connector Position Assurance) ensures perfect mating between male and female connectors
- 2 TPA (Terminal Position Assurance) detects not fully inserted terminals
- 3 Mat seal design with ergonomic terminal insertion
- 4 Housing designed for high temperature T4 endurance
- Interfacial seal to ensure high vibration V3 and sealing S3 endurance for Sensomate
- 6 Rear grid provides excellent guidance for terminals



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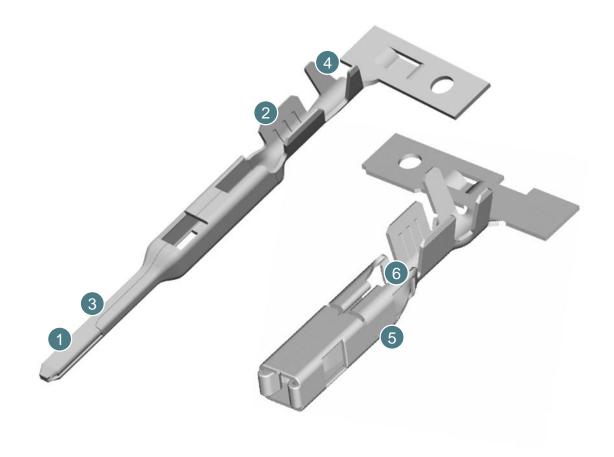
Terminal design overview

Benefits

- Standard well know cavity compatibility
- Several crimping gauges for good slow motion performance and vibration
- Clean body design for terminals to prevent any damages to wires and seals

Design features

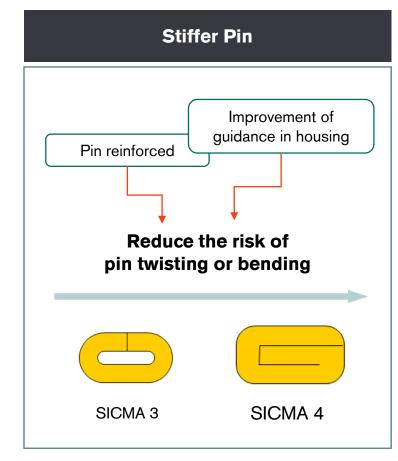
- No seam in contact area, enabling smooth contact area on both sides and enhancing electrical connection
- SICMA terminals have very stable crimping resistance and high performances on pull-out force and slow motion test, and thanks to L-shape technology, 0.13 mm² cable is able to be crimped
- Reinforced pin improves the guidance in housing and reduces the risk of pin twisting or bending
- "Side by side" insulation crimping barrel optimizes aggressiveness and reduces the risk of torn grommet
- 5 Smooth edges to enable easy assembly without damage mat seal
- 6 Optimization of brace for better insertion and extraction

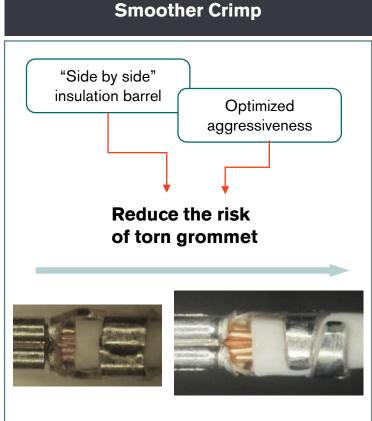


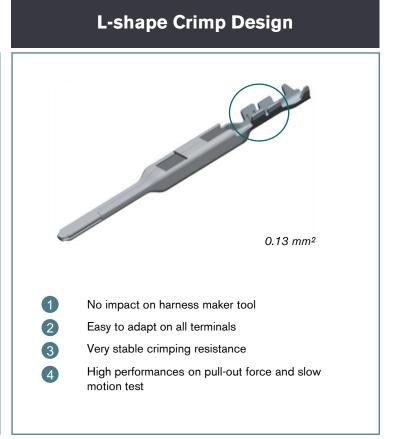
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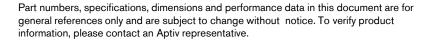


SICMA terminal technology









Housing part numbers

SICMA Mini-sealed Connector

Mini-sealed Connector	Cavity Count	Blade Size (mm)	Gender	Color	Part Number	Codings Offered
SICMA Mini-Sealed Connectors	2	1.5	F	Black	10820158	9
	2	1.5	М	Black	10787262	7
	3	1.5	F	Black	10820167	8
	3	1.5	М	Black	10788983	6
	4	1.5	F	Black	10763691	3
	4	1.5	М	Black	10768812	3
	5	1.5	F	Black	10820113	3
	5	1.5	М	Black	33500323	3
	6	1.5	F	Black	10866615	3
	6	1.5	М	Black	13716617	3
	6*	1.5(4), 2.8(2)	F	Black	10866611	3
	6*	1.5(4), 2.8(2)	М	Black	15396354	3



Terminal part numbers

SICMA 3 Plus & SICMA 4 - 1.5 Series

SICMA 3 Plus & SICMA 4 1.5 Series	Blade Size (mm)	Gender	Plating	Wire Size Range	Part Number	Other Available Platings
	1.5	F	Tin	0.13-0.22mm ² (26-24AWG)	33308333	Gold
pro All Maria	1.5	F	Tin	0.35-0.70mm ² (22-18AWG)	10863984	Gold
Jan	1.5	F	Tin	0.75-1.30mm² (18-16AWG)	10865152	Gold
	1.5	F	Tin	1.35-2mm² (*2.5mm²) (16-14AWG)	10863985	Gold
To the state of th	1.5	M	Tin	0.13-0.22mm ² (26-24AWG)	33400435	Silver
Service to the service to	1.5	M	Tin	0.35-0.70mm ² (22-18AWG)	33501792	Gold, Silver
	1.5	M	Tin	0.75-1.30mm ² (18-16AWG)	33512109	Silver
1 1	1.5	M	Tin	1.35-2.00mm ² (16-14AWG)	33512190	Silver

^{* 2.5} mm² is only applicable to unsealed connectors

