

# Automotive & Trucks



Means of transport

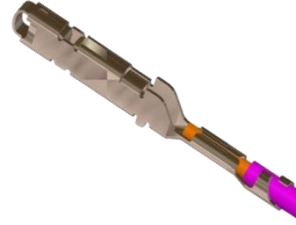


Domestic & industry



Sport & leisure

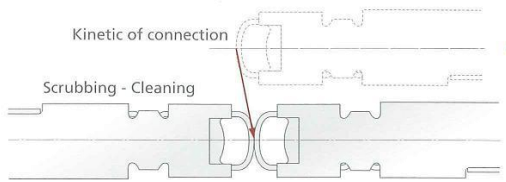
## Connexion Systems



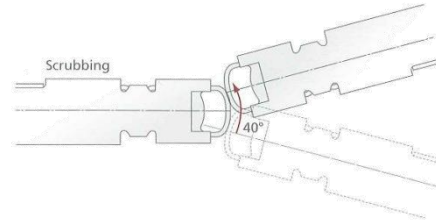
## SLIDING CONTACT

### TYPE OF CONNECTION FOR THIS CONTACT

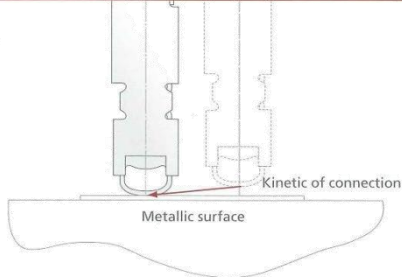
#### AUTOMATIC CONNECTION



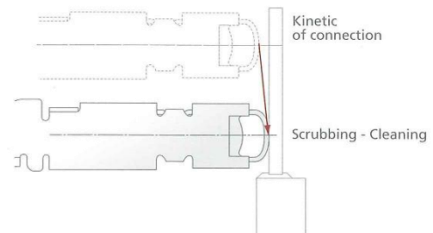
#### ACCEPTABLE MISALIGNMENT



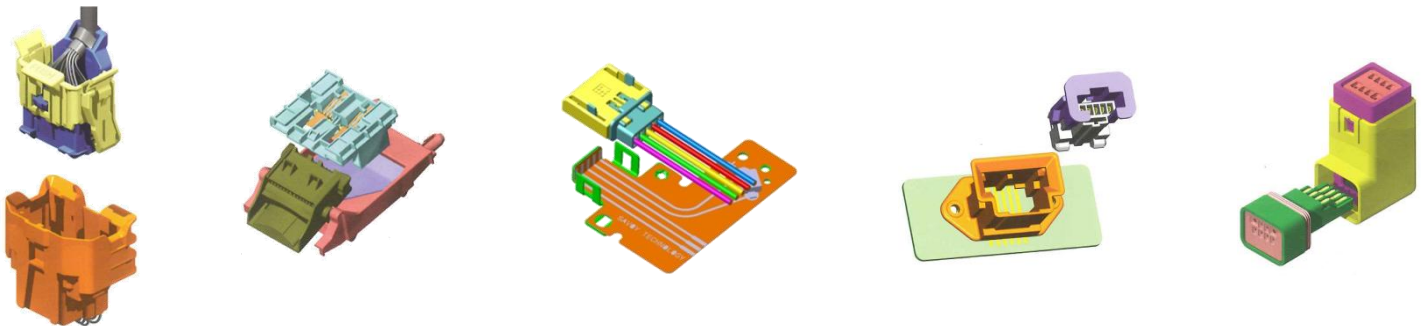
#### CONNECTION ON PCB (3C°/TRACK)



#### 90° CONNECTION



### EXEMPLES OF APPLICATIONS



*In relationship with the engineering and R&D departments of its customers, SAVOY TECHNOLOGY design, develop and make validations for personalized connector technology.*

**SAVOY TECHNOLOGY**

Rue du moulin à vent - 77860 QUINCY-VOISINS - France

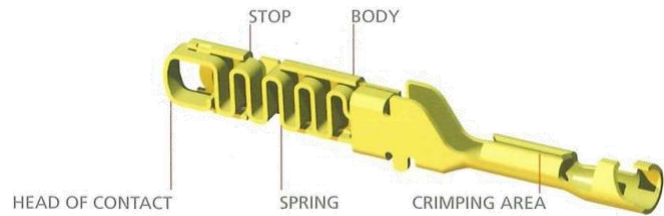
PHONE : +33 164 63 41 16

FAX : +33 160 04 49 22

e-mail : [l.piarry@savoy-technology.com](mailto:l.piarry@savoy-technology.com)

Web site : <http://www.savoy-international.com/>

## SLIDING CONTACT T0



### MECHANICS

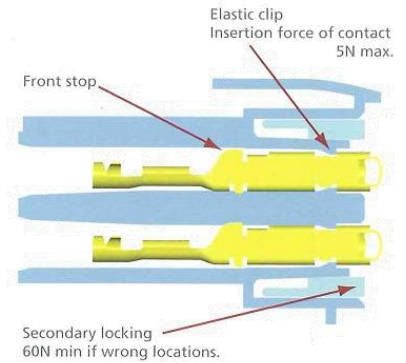
	Connector Size 0
Contact elasticity	
Compression force	5,5 N
Working motion of the spring*	0,4 mm to 0,9 mm
Maximum relaxation (after 20 000 compressions)	1 to 4 %

\* functional from 0,2 mm

#### Sliding Contact size 0 :

- Type : spring contact
- Material : CuMg0,8P
- Treatment : Silver plated or Gold plated
- Crimp scale : 0.22 à 0.75mm<sup>2</sup>
- Nominal current (23 C) : 13 A
- Contact applied at RSA, PSA, Mercedes,...

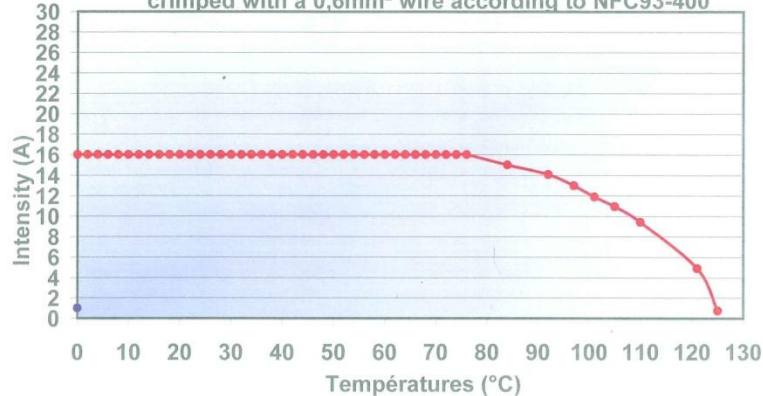
Drawings of contact in a cavity



### ELECTRICS

CONTACT RESISTANCE Max	Contact size 0
Gold	5m Ω
Silver	4,5m Ω
<b>MAXI DEVIATION TO:</b>	
Corrosion (H <sub>2</sub> S/So <sub>2</sub> - 75% humidity - 96 hours)	< 5m Ω
Temperature soak (- 40°C to 130°C less than 10s)	< 5m Ω
Ageing (55°C - 99% humidity - 240 hours)	< 5m Ω
Vibration (2 to 40G - 5 to 2000 Hz -40°C to + 85°C)	< 5m Ω
Mechanical shock (60G - 11ms)	No micro-cut-offs
<b>ENVIRONMENTAL USE OF CONTACT</b>	From - 40°C to + 85°C

DERATING CURVE - Size 0 contact - crimped with a 0,6mm<sup>2</sup> wire according to NFC93-400



### Main advantages :

- **Way density** : pitch of 2.54 for T0 with a wire until 0,75mm<sup>2</sup>.
- **Misalignment** : of contacts without effects on the connection quality (+/- 20°, +/- 0,25mm).
- **Head against head** : contact (short connection motion).
- **Head against solid** : such PCB, Pin terminal, etc...
- **High contact pressure ensuring** :
  - low electrical resistance
  - low electrical resistance
- **Easy link up** : on wire or flat flexible cable
- **Mating/Unmating** : more than 20 000 times qualified.
- **No ageing relaxation** :
- **High thermal exchange**, represented on the derating curves.

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**Connexion Systems**



**Means of transport**

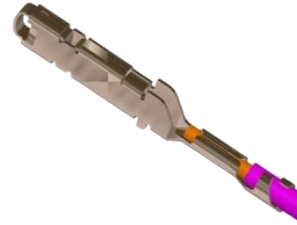


**Domestic & industry**



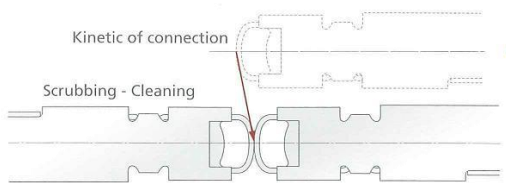
**Sport & leisure**

## SLIDING CONTACT

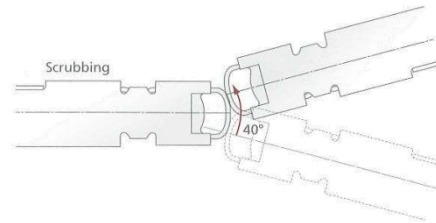


### TYPE OF CONNECTION FOR THIS CONTACT

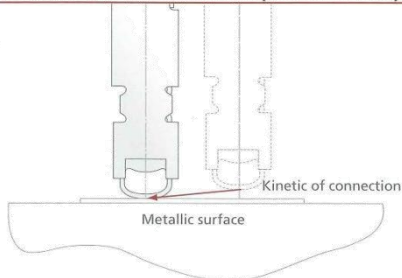
#### AUTOMATIC CONNECTION



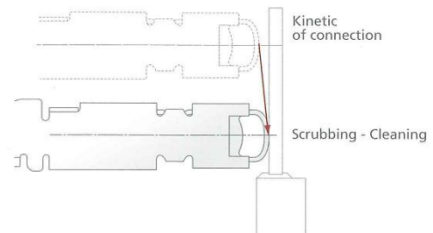
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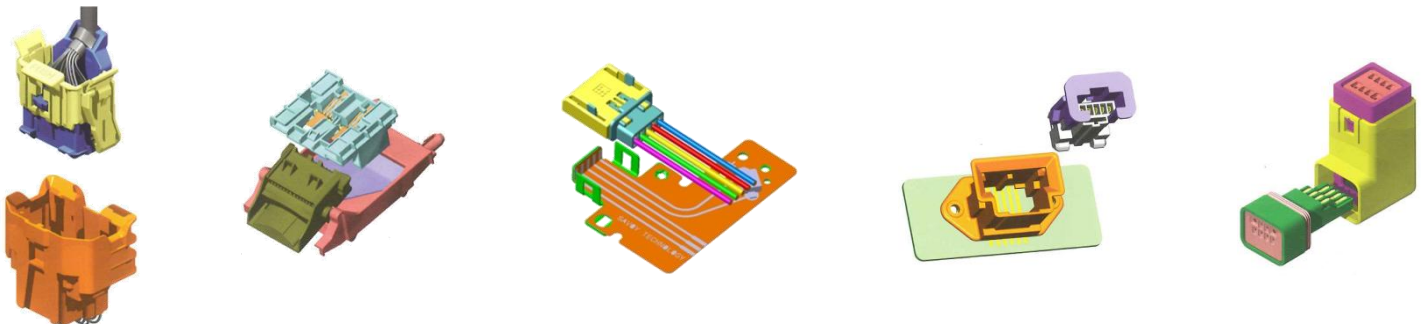
#### CONNECTION ON PCB (3C°/TRACK)



#### 90° CONNECTION



### EXEMPLES OF APPLICATIONS



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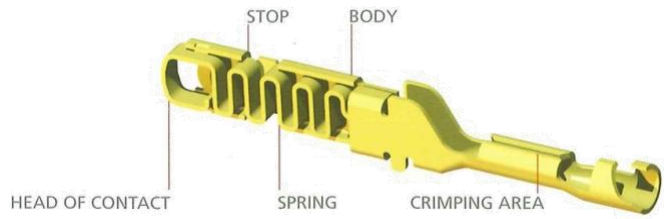
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# SLIDING CONTACT T0

## MECHANICS

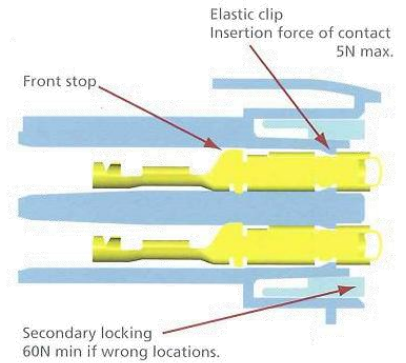
	Connector Size 1
Contact elasticity	
Compression force	7 N
Working motion of the spring*	0,4 mm to 0,9 mm
Maximum relaxation (after 20 000 compressions)	1 to 4 %

\* functional from 0,2 mm

### Sliding Contact size 1 :

- Type : spring contact
- Material : CuSnAgMg
- Treatment : Silver plated or Gold plated
- Crimp scale : 0.75 à 2.5mm<sup>2</sup>
- Nominal current (23 C) : 23 A
- Contact applied at RSA, PSA, Mercedes,...

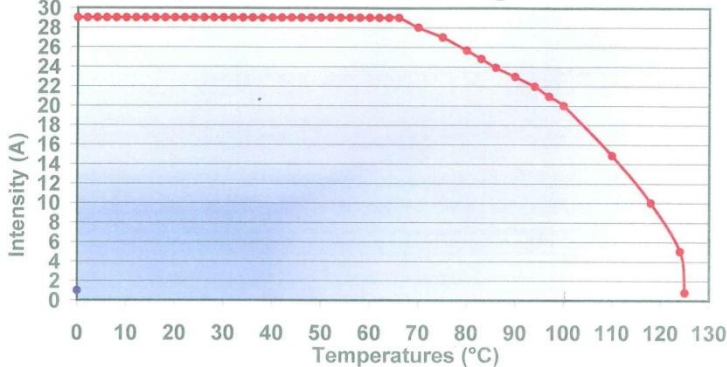
Drawings of contact in a cavity



## ELECTRICS

CONTACT RESISTANCE Max	Contact Size 1
Gold	
Silver	4m Ω
<b>MAXI DEVIATION TO:</b>	
Corrosion (H <sub>2</sub> S/So <sub>2</sub> - 75% humidity - 96 hours)	< 5m Ω
Temperature soak (- 40°C to 130°C less than 10s)	< 5m Ω
Ageing (55°C - 99% humidity - 240 hours)	< 5m Ω
Vibration (2 to 40G - 5 to 2000 Hz -40°C to + 85°C)	< 5m Ω
Mechanical shock (60G - 11ms)	No micro-cut-offs
<b>ENVIRONMENTAL USE OF CONTACT</b>	From - 40°C to + 85°C

DERATING CURVE - Size 1 contact - Crimped with a 2mm<sup>2</sup> wire according to NFC93-400



## Main advantages :

- **Way density** : pitch of 3.81 for T1 with a wire until 2,5mm<sup>2</sup>.
- **Misalignment** : of contacts without effects on the connection quality (+/- 20°, +/- 0,25mm).
- **Head against head** : contact (short connection motion).
- **Head against solid** : such PCB, Pin terminal, etc...
- **High contact pressure ensuring** :
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