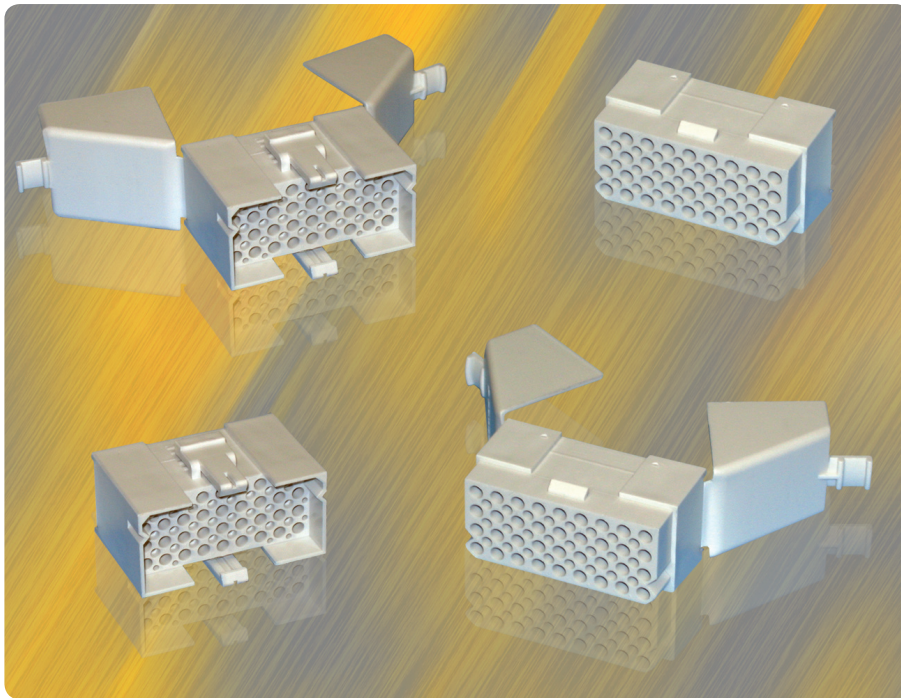


# SMS Flame Retardant



## Description

### Quickmating cable connectors

SMS Flame Retardant connector is a range of lightweight plastic rectangular connectors that offer an excellent fire & smoke resistance.

- This SMS connector is available in 2 versions, both in 10 contact layouts and up to 36 contacts
- Connectors are using AWG 16 removable snap-lock TRIM TRIO® contacts.

## Applications

SMS Flame Retardant connector is suitable for indoor railway equipments in :

- Passengers compartments
- Driver cabins
- Electrical operating areas

## Benefits

### Suitable for indoor railway applications

- Fire & smoke specifications : **requirement II / I3F2** according to **NFF16 101 / 16 102 standards**
- UL94V0 material

### Ideal for tight space integration & for high density contact applications

- Compact & up to 36 contacts

### Excellent durability

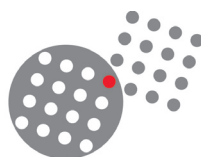
- 500 matings / unmatings

### Respect for environment

- RoHS compliant

### Souriau's offer

- 10 layouts, from 2 to 36 TRIM TRIO® AWG16 contacts
- 2 versions : with integrated strain relief hood or without
- Panel mount receptacle available
- Possibility of keying system



**SOURIAU**  
Connection Technology

# SMS Flame Retardant



## Technical characteristics

### Mechanical

- Durability 500 matings & unmatings
- Color Grey

### Electrical

- Current per contact 13A
- Insulation resistance 5000 MΩ min.
- Rated voltage 2000 Vac
- Operating voltage 500 V according to UL1977

### Environmental

- Operating temperature -40°C to + 105°C
- Sealing in mated condition IP40
- Flammability rating I3F2 according to NFF16101 / 16102 standards

### Material

- Insulating material Polyamide 6.6 - UL94V0
- Contamination class 1

## How to order\*

|                                                        |                                                               |    |      |
|--------------------------------------------------------|---------------------------------------------------------------|----|------|
| Connector family                                       | SMS                                                           | 4  | PDH3 |
|                                                        | SMS                                                           | 36 | RD3  |
| Number of contacts : 2, 3, 4, 6, 9, 12, 15, 18, 24, 36 |                                                               |    |      |
| Design variation                                       |                                                               |    |      |
| PDH3                                                   | Flame Retardant plug with integrated strain relief hood       |    |      |
| RDH3                                                   | Flame Retardant receptacle with integrated strain relief hood |    |      |
| PD3                                                    | Flame Retardant plug without strain relief hood               |    |      |
| RD3                                                    | Flame Retardant receptacle without strain relief hood         |    |      |
| R3                                                     | Flame Retardant panel mount receptacle                        |    |      |

\* Contacts to be ordered separately, please refer to the RC/RM machined contacts AWG 16 in the TRIM TRIO® catalogue.

## Contact layouts



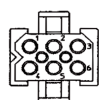
2 contacts AWG 16



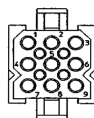
3 contacts AWG 16



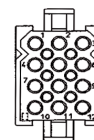
4 contacts AWG 16



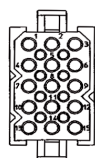
6 contacts AWG 16



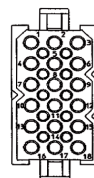
9 contacts AWG 16



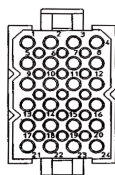
12 contacts AWG 16



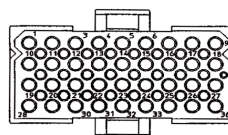
15 contacts AWG 16



18 contacts AWG 16



24 contacts AWG 16



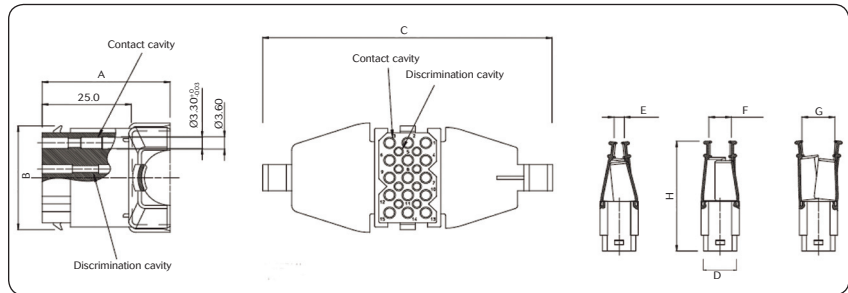
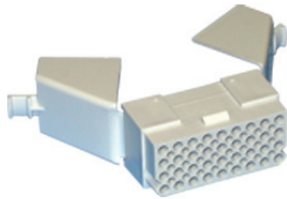
36 contacts AWG 16

# SMS Flame Retardant



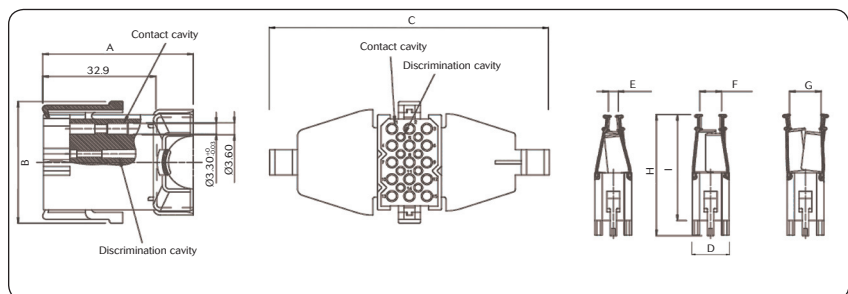
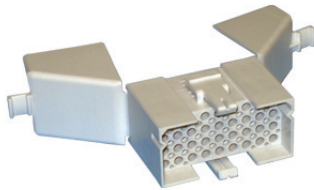
## Range presentation

### Cable receptacle with integrated strain relief hood



| Part numbers | Number of contact cavities | Number of discrimination cavities | A    | B    | C     | D    | E   | F    | G    | H    | Cable range | Recommended unirap cable tie |
|--------------|----------------------------|-----------------------------------|------|------|-------|------|-----|------|------|------|-------------|------------------------------|
| SMS2RDH3     | 2                          | 0                                 | 31.6 | 9.9  | 64.8  | 11.1 | 0.5 | 7.4  | 8.4  | 49.2 | 0.5 - 8.4   | TF4BKD                       |
| SMS3RDH3     | 3                          | 0                                 | 35.1 |      | 69.0  | 16.2 | 0.8 | 4.1  | 7.3  |      | 0.8 - 7.3   |                              |
| SMS4RDH3     | 4                          | 0                                 | 38.2 |      | 74.4  | 21.2 | 1.5 | 5.4  | 10.0 |      | 1.5 - 10.0  |                              |
| SMS6RDH3     | 6                          | 2                                 | 34.6 | 15.0 | 72.6  | 16.2 | 1.7 | 6.8  | 9.2  | 50.9 | 1.7 - 9.2   | TF5BKD                       |
| SMS9RDH3     | 9                          | 4                                 | 35.8 | 20.0 | 75.3  |      | 3.9 | 9.3  | 12.3 | 52.2 | 3.9 - 14.3  |                              |
| SMS12RDH3    | 12                         | 6                                 | 38.1 | 25.1 | 72.0  |      | 4.0 | 10.0 | 15.0 | 52.7 | 4.0 - 15.0  |                              |
| SMS15RDH3    | 15                         | 8                                 | 35.9 | 30.2 | 81.3  |      | 5.0 | 11.0 | 16.2 | 55.2 | 5.0 - 16.2  |                              |
| SMS18RDH3    | 18                         | 10                                | 36.1 | 35.3 |       |      | 5.8 | 12.5 | 20.3 |      | 5.8 - 20.3  |                              |
| SMS24RDH3    | 24                         | 15                                | 39.7 |      | 90.4  | 21.2 | 7.1 | 12.4 | 20.4 | 57.2 | 7.1 - 20.4  |                              |
| SMS36RDH3    | 36                         | 24                                | 54.6 | 25.1 | 128.0 | 46.6 | 8.8 | 13.0 | 24.5 | 63.3 | 8.8 - 24.5  |                              |

### Cable plug with integrated strain relief hood



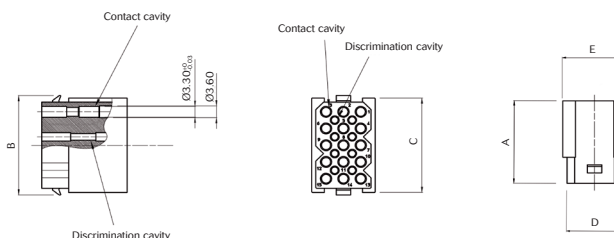
| Part numbers | Number of contact cavities | Number of discrimination cavities | A    | B    | C     | D    | E   | F    | G    | H    | I    | Cable range | Recommended unirap cable tie |
|--------------|----------------------------|-----------------------------------|------|------|-------|------|-----|------|------|------|------|-------------|------------------------------|
| SMS2PDH3     | 2                          | 0                                 | 39.5 | 16.4 | 64.8  | 14.1 | 0.5 | 7.4  | 8.4  | 57.1 | 49.2 | 0.5 - 8.4   | TF4BKD                       |
| SMS3PDH3     | 3                          | 0                                 | 43.0 |      | 69.0  | 18.6 | 0.8 | 4.1  | 7.3  |      |      | 0.8 - 7.3   |                              |
| SMS4PDH3     | 4                          | 0                                 | 46.1 |      | 74.4  | 23.7 | 1.5 | 5.4  | 10.0 |      |      | 1.5 - 10.0  |                              |
| SMS6PDH3     | 6                          | 2                                 | 42.5 | 21.5 | 72.6  | 18.6 | 1.7 | 6.8  | 9.2  | 58.8 | 50.9 | 1.7 - 9.2   | TF5BKD                       |
| SMS9PDH3     | 9                          | 4                                 | 43.7 | 26.7 | 75.3  |      | 3.9 | 9.3  | 12.3 | 60.1 | 52.2 | 3.9 - 14.3  |                              |
| SMS12PDH3    | 12                         | 6                                 | 46.0 | 31.7 | 72.0  |      | 4.0 | 10.0 | 15.0 | 60.6 | 52.7 | 4.0 - 15.0  |                              |
| SMS15PDH3    | 15                         | 8                                 | 43.8 | 36.7 | 81.3  |      | 5.0 | 11.0 | 16.2 | 63.1 | 55.2 | 5.0 - 16.2  |                              |
| SMS18PDH3    | 18                         | 10                                | 44.0 | 41.8 |       |      | 5.8 | 12.5 | 20.3 |      |      | 5.8 - 20.3  |                              |
| SMS24PDH3    | 24                         | 15                                | 47.6 | 41.8 | 90.4  | 23.7 | 7.1 | 12.4 | 20.4 | 65.1 | 57.2 | 7.1 - 20.4  | TF5BKD                       |
| SMS36PDH3    | 36                         | 24                                | 62.5 | 31.7 | 128.0 | 49.1 | 8.8 | 13.0 | 24.5 | 71.2 | 63.3 | 8.8 - 24.5  |                              |

Note : all dimensions are in mm

# SMS Flame Retardant

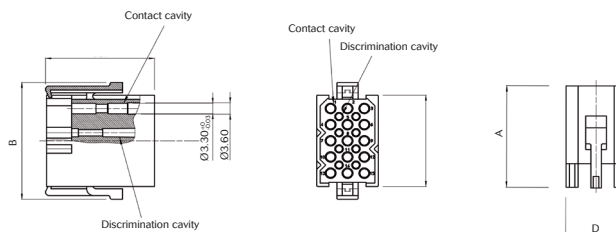


## Cable receptacle without strain relief hood



| Part numbers | Number of contact cavities | Number of discrimination cavities | A    | B    | C    | D    | E    |
|--------------|----------------------------|-----------------------------------|------|------|------|------|------|
| SMS2RD3      | 2                          | 0                                 | 25.0 | 9.9  | 8.4  | 11.1 | 14.1 |
| SMS3RD3      | 3                          | 0                                 |      | 9.9  | 8.4  | 16.2 | 18.6 |
| SMS4RD3      | 4                          | 0                                 |      | 9.9  | 8.4  | 21.2 | 23.7 |
| SMS6RD3      | 6                          | 2                                 |      | 15.0 | 13.4 | 16.2 | 18.6 |
| SMS9RD3      | 9                          | 4                                 |      | 20.0 | 18.5 | 16.2 | 18.6 |
| SMS12RD3     | 12                         | 6                                 |      | 25.1 | 23.6 | 16.2 | 18.6 |
| SMS15RD3     | 15                         | 8                                 |      | 30.2 | 28.7 | 16.2 | 18.6 |
| SMS18RD3     | 18                         | 10                                |      | 35.3 | 33.8 | 16.2 | 18.6 |
| SMS24RD3     | 24                         | 15                                |      | 35.3 | 33.8 | 21.2 | 23.7 |
| SMS36RD3     | 36                         | 24                                |      | 25.1 | 23.6 | 46.6 | 49.1 |

## Cable plug without strain relief hood



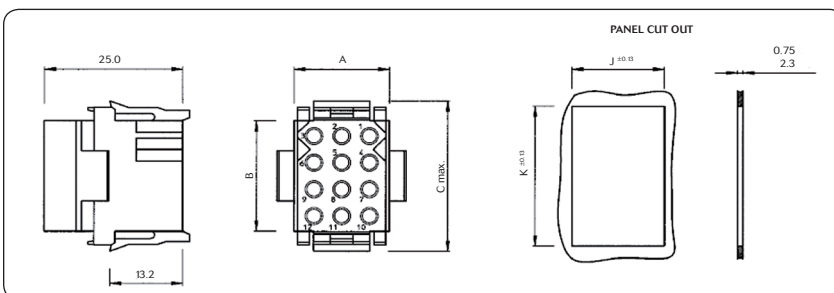
| Part numbers | Number of contact cavities | Number of discrimination cavities | A    | B    | C    | D    |
|--------------|----------------------------|-----------------------------------|------|------|------|------|
| SMS2PD3      | 2                          | 0                                 | 32.7 | 16.4 | 8.4  | 14.1 |
| SMS3PD3      | 3                          | 0                                 |      | 16.4 | 8.4  | 18.6 |
| SMS4PD3      | 4                          | 0                                 |      | 16.4 | 8.4  | 23.7 |
| SMS6PD3      | 6                          | 2                                 |      | 21.5 | 13.4 | 18.6 |
| SMS9PD3      | 9                          | 4                                 |      | 26.7 | 18.5 | 18.6 |
| SMS12PD3     | 12                         | 6                                 |      | 31.7 | 23.6 | 18.6 |
| SMS15PD3     | 15                         | 8                                 |      | 36.7 | 28.7 | 18.6 |
| SMS18PD3     | 18                         | 10                                |      | 41.8 | 33.8 | 18.6 |
| SMS24PD3     | 24                         | 15                                |      | 41.8 | 33.8 | 23.7 |
| SMS36PD3     | 36                         | 24                                |      | 31.7 | 23.6 | 49.1 |

Note : all dimensions are in mm

# SMS Flame Retardant



## Panel mount receptacle



| Part numbers | Number of contact cavities | A    | B    | C max. | J <sup>±0.13</sup> | K <sup>±0.13</sup> |
|--------------|----------------------------|------|------|--------|--------------------|--------------------|
| SMS2R3       | 2                          | 11.0 | 5.8  | 15.2   | 11.4               | 11.6               |
| SMS3R3       | 3                          | 16.2 |      |        | 16.5               |                    |
| SMS4R3       | 4                          | 21.2 |      |        | 21.7               |                    |
| SMS6R3       | 6                          | 16.2 | 10.9 | 20.3   | 16.5               | 16.7               |
| SMS9R3       | 9                          |      | 16.0 | 25.4   |                    | 21.6               |
| SMS12R3      | 12                         |      | 21.1 | 30.5   | 16.7               | 26.7               |
| SMS15R3      | 15                         |      | 26.2 | 35.6   |                    | 31.8               |
| SMS18R3      | 18                         |      | 31.2 | 40.6   |                    | 21.7               |
| SMS24R3      | 24                         | 21.2 |      |        |                    |                    |
| SMS36R3      | 36                         | 46.6 | 21.1 | 30.5   | 47.1               | 26.7               |

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or contact us at [contactindustry@souriau.com](mailto:contactindustry@souriau.com)