



SMS IP: high voltage sealed plastic connector

A connector designed for indoor railway equipments, using the standard Ø 1.6 contact.

Safe

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Finger proof High operating voltage up to 500 V

Compliant to fire and smoke standards

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CEN / TS 45-545 NF F 16-101/16-102

Sealed •

/

IP 67

Easy to handle

1 stainless steel latch

Designed for railways

/

NF F 61-030 derivated







SOURIAU on the railway market







The SOURIAU solution offers a wide range of connector layouts providing a simplified process from purchasing to harnessing: 1 type of contact to order, to manage, to stock, to crimp for a wide range of connectors.

SOURIAU's standardisation policy is the best compromise between technology and cost.



SOURIAU connectors ensure the continuity of the network with railway qualified connectors integrating new technologies: copper contacts, Quadrax and fibre optics to transfer high speed Ethernet and other data protocols.



SOURIAU, along with its customers is committed to the research of energy efficiency and sustainability.

The use of lightweight materials, fiber optics and high contact density contribute to the weight reduction of train equipments and help railway operators to save energy.

Railway SMS IP



Technical features (NF F 61-030 derivated)

Mechanical

- Following NF F 61-030
- · Durability: 500 mating/unmating
- Vibrations & shocks: EN 61-373 Cat.2
- · Locking system: 1 metallic latch Audible "Click"
- · Keying system: 3 different positions

Electrical

- · Current rating per contact: 15 A maxi
- Operating voltage: ≤ 500 Vdc / ≤ 380 Vac NF F 61-030
- 500 Vdc/ac following EN 50-124-1
- Creepage distances (unmated): > 12 mm
- Clearance distances (unmated): > 8 mm
- Withstanding voltage: 3250 V
- Insulation resistance: ≥ 5000 MΩ
- Contacts resistance: $\leq 2.5 \text{ m}\Omega$

Material

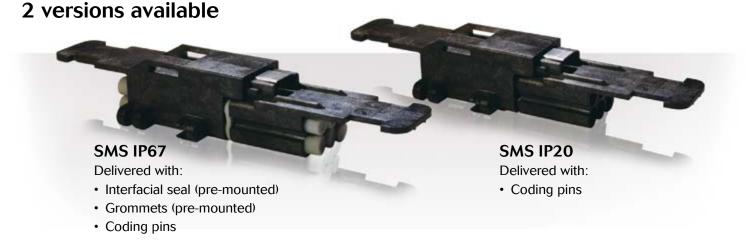
- Plug & receptacle: black thermoplastic
- Grommet & interfacial seal: light grey silicone
- Latch: stainless steel

Environmental

- Sealing: IP 65 & IP67 Following CEI 60-529
- Fire resistance, toxicity & smoke opacity: R23 /HL3 following CEN/TS 45-545 I3/F2 2 following NF F 16-101/16-102
- · RoHS compliant
- Damp heat: 21 days / 40°C / 95% RH
- Operating temperature: -50°C to +100°C
- Fluids: NF F 61-030
- Corrosion: 500 hours salt spray

Sealed version (SMS IP67)

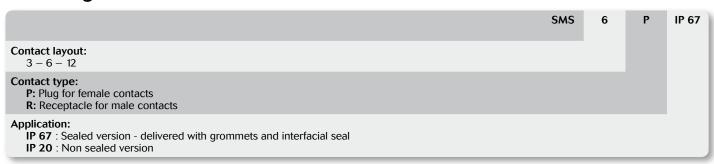
- Sealing: IP 65 & IP 67 Following CEI 60-529
- · Delivered with pre-mounted grommets and interfacial seal
- · Grommets are closed to seal empty cavities



Contacts (to be ordered separately)

 Standard crimp machined contact #16 compatible with EN 50-306-2 & EN 50-264-3-1 wires Cable section: 0.5 to 2.5 mm²
(Ø insulator: 1.5 to 3.8 mm)

Ordering information



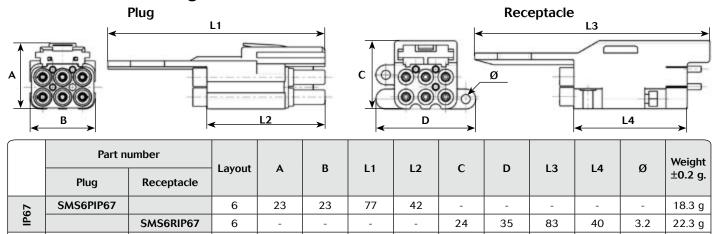
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16.3 g

20.3 g



Dimensions & weight



77

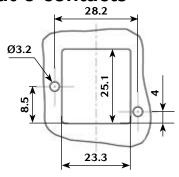
42

24

35

Panel cut 6 contacts

SMS6PIP20



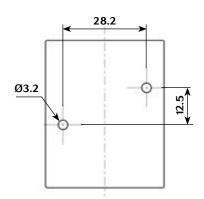
SMS6RIP20

6

23

23

Fixation on an panel



83

40

3.2

Fixation on a board

Several ways of fixation





