SMS IP SOURIAU



SMS IP: high voltage sealed plastic connector

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

Safe

/

Finger proof

High operating voltage up to 500 V

Compliant to fire and smoke standards

/

CEN / TS 45-545

NF F 16-101/16-102

Sealed

IP66 & IP67

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: $\leq 500 \text{ Vdc /} \leq 380 \text{ Vac}$

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

 Fire resistance, toxicity & smoke opacity: R23 /HL3 following CEN/TS 45-545 I3/F2 2 following NF F 16-101/16-102

· RoHS compliant

 \bullet 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 IP66 & IP67)

• Sealing: IP66 & IP67 - Following CEI 60-529

· Delivered with pre-mounted grommets and interfacial seal

· Grommets are closed to seal empty cavities

Ordering information

	SMS	3	P	IP67
Contact layout: 3 - 6 - 12				
Contact type: P: Plug for female contacts R: Receptacle for male contacts				
Application: IP66 & IP67 : Sealed version IP20 : Non sealed version - delivered without grommet				

Contacts (to be ordered separately)

• Standard crimp machined contact #16 compatible with EN 50-306-2 & EN 50-264-3-1 wires

Contact	Time	Wire	size	Part n	umber	Max wire Ø	Max insulator Ø	
size	Туре	AWG	mm²	Male	Female	mm	mm	
#16 Ø 1.6 mm	Machined	20-16	0.5-1.5	RM16M23K	RC16M23K	1.8	3.8	
		16-14	1.5-2.5	RM14M50K	RC14M50K	2.05	3.8	

For other contact type consult us

Several ways of fixation



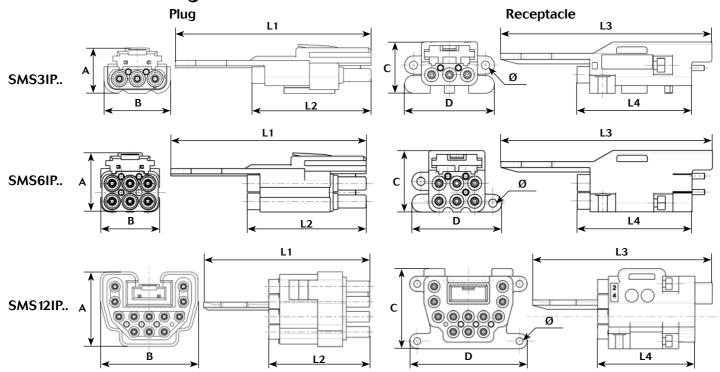




Railway SMS IP



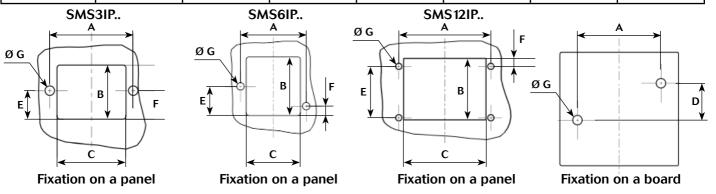
Dimensions & weight



Part number				_	14			_	1.0		α	Weight ±0.2 g.	
Plug	Receptacle	Layout	Α	В	L1	L2	С	D	L3	L4	Ø	IP20	IP66 & IP67
SMS3PIP		3	18	26	77	42	-	-	-	-	-	13.3 g	16.1 g
	SMS3RIP	3	-	-	-	-	20	35	83	40	3.2	16.4 g	17.4 g
SMS6PIP		6	23	23	77	42	-	-	-	-	-	16.3 g	18.3 g
	SMS6RIP	6	-	-	-	-	24	35	83	40	3.2	20.3 g	22.3 g
SMS12PIP		12	35	46	77	42	-	-	-	-	-	40 g	45 g
	SMS12RIP	12	-	-	-	-	30	54	83	40	3.2	48 g	53 g

Panel cut

	A	В	С	D	E	F	ØG
SMS3IP	28.2	18.3	23.3	12.5	9.6	9.6	3.2
SMS6IP	28.2	25.1	23.3	12.5	8.5	4	3.2
SMS12IP	47.4	31.4	42.5	12.5	26.3	4	3.2



For further information, visit our website www.railway-connectors.com or contact us at contactindustry@souriau.com