

# RC-63S1N120000 - Contact insert



1603668

<https://www.phoenixcontact.com/us/products/1603668>

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The figure shows the 9-pos.  
product version

Contact insert, M23, number of positions: 6+3, contact connection type: Socket, Solder cup, series: NC, RC, RM, TU, UC, this item is expected to be lead-free from Q2 2026 in accordance with RoHS II without exception 6c (Pb < 0.1%), a lead-free alternative is possible on request in advance

## Commercial data

Item number	1603668
Packing unit	10 pc
Minimum order quantity	1 pc
Sales key	AB31
Product key	ABRAFU
GTIN	4046356246507
Weight per piece (including packing)	7.37 g
Weight per piece (excluding packing)	4.91 g
Customs tariff number	85366990
Country of origin	DE

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## Technical data

### Product properties

Product type	Contact insert
Series	NC
	RC
	RM
	TU
	UC
Application	Signal
Number of positions	9
Connection profile	6+3
Coding	N
Thread type	M23

### Electrical properties

#### Contact: Contact group 1

Contact diameter	2 mm
Min. cross section	0.08 mm <sup>2</sup>
Max. cross section	2.5 mm <sup>2</sup>
Nominal current I <sub>N</sub>	20 A (for max. connection cross section)
Nominal voltage U <sub>N</sub>	48 V AC
	74 V DC
Overvoltage category	III
Degree of pollution	3
Rated surge voltage	1.5 kV

#### Contact: Contact group 2

Contact diameter	1 mm
Min. cross section	0.08 mm <sup>2</sup>
Max. cross section	1 mm <sup>2</sup>
Nominal current I <sub>N</sub>	8 A

### Connection data

Connection method	Solder cup
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### Material specifications

Material Insulating body	PBT
Material Contact	CuZn
Material Contact surface	Ni/Au

### Connector

Direction of rotation	Standard
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## Mechanical properties

### Mechanical data

Insertion/withdrawal cycles	50
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## Drawings

Schematic diagram



Connector pin assignment

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Schematic diagram



Dimensional drawing

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## Classifications

### ECLASS

ECLASS-13.0	27440223
ECLASS-15.0	27440223

### ETIM

ETIM 10.0	EC003557
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### UNSPSC

UNSPSC 21.0	39121400
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(c)

### China RoHS

Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

### EU REACH SVHC

REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
SCIP	26d89938-24de-4b39-836c-4cc7fde7a0c3

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