

# UC-19S1N12R3DU - Cable connector



1606701

<https://www.phoenixcontact.com/us/products/1606701>

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M23, Cable connector, series: UC, straight, shielded: yes, Screw locking mechanism, No. of pos. : 16+3, Direction of rotation: Standard, contact connection type: Socket, Solder cup, cable diameter range: 2 mm ... 14.5 mm, coding: N, this item is expected to be lead-free from Q4 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	1606701
Packing unit	20 pc
Minimum order quantity	1 pc
Sales key	AB31
Product key	ABRAIA
GTIN	4046356261296
Weight per piece (including packing)	128.6 g
Weight per piece (excluding packing)	111.998 g
Customs tariff number	85366990
Country of origin	DE

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## Technical data

### Product properties

Product type	Circular connector (cable-side)
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### Connector

#### Insulating body

Coding	N
Material (Insulating body)	PA 6.6
Material (Contact)	CuZn
Material (Contact surface)	Ni/Au
Insertion/withdrawal cycles	100
Connection method	Solder cup
Contact switching type	Socket
Application	Signal
Number of positions	19
Direction of rotation	Standard
Connection profile	16+3
Number Contact (Contact group 1)	3
Diameter Contact (Contact group 1)	1.5 mm
Litz wire cross-section min. Contact (Contact group 1)	0.08 mm <sup>2</sup>
Litz wire cross-section max. Contact (Contact group 1)	1 mm <sup>2</sup>
Rated current Contact (Contact group 1)	10 A (for max. connection cross section)
Rated voltage Contact (Contact group 1)	48 V AC
	74 V DC
Rated surge voltage	1.5 kV
Overvoltage category	III
Degree of pollution	3
Number Contact (Contact group 2)	16
Diameter Contact (Contact group 2)	1 mm
Litz wire cross-section min. Contact (Contact group 2)	0.08 mm <sup>2</sup>
Litz wire cross-section max. Contact (Contact group 2)	1 mm <sup>2</sup>
Rated current Contact (Contact group 2)	8 A
Number Contact (Contact group 3)	1
Diameter Contact (Contact group 3)	1.5 mm
Rated current Contact (Contact group 3)	8 A

#### Housing

Type	Cable connector housing
Thread type	M23
Design	straight
Type of locking	Screw locking mechanism
Pg screw connection	Pg13,5

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Material (Housing)	GD-Zn
Material (Rotating parts)	CuZn
Material (Housing surface)	Ni
Material (Seal)	FPM (O-ring)
Degree of protection (plugged in)	IP67

## Seal

External cable diameter	2 mm ... 14.5 mm
Seal material	NBR

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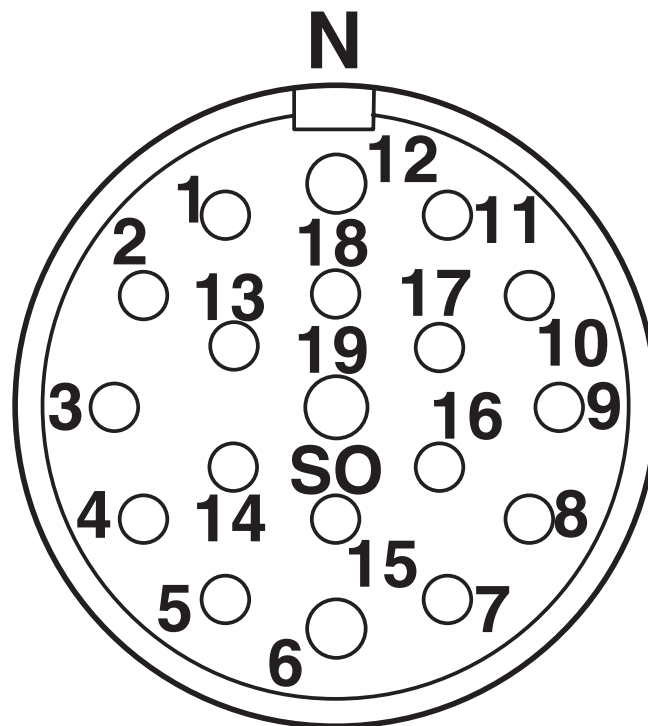
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## Drawings

Schematic diagram



Connector pin assignment

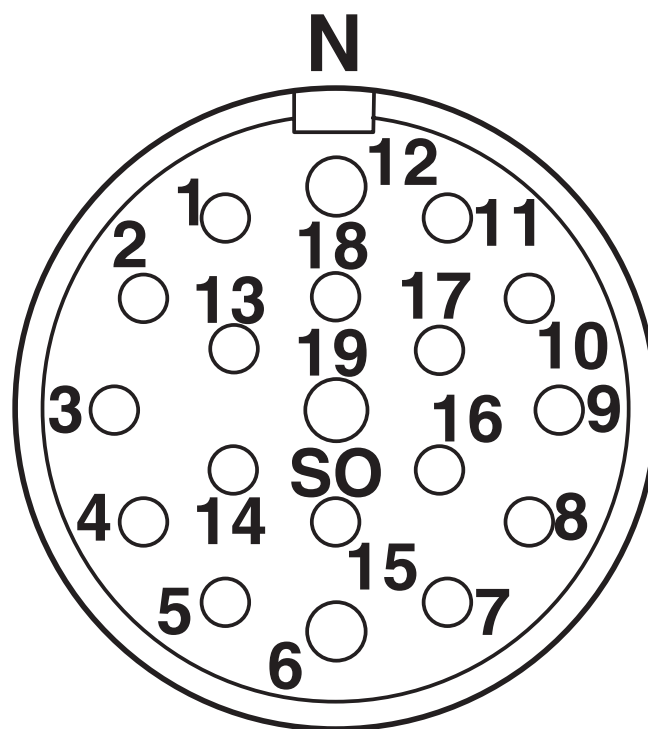
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Schematic diagram



Connector pin assignment

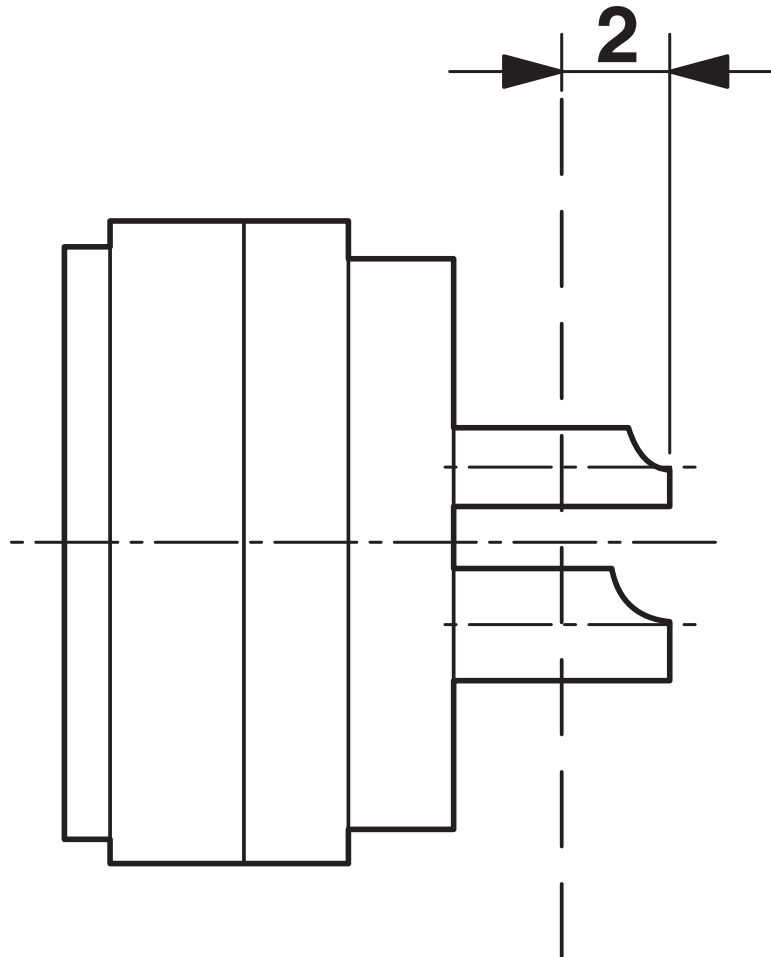
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Schematic diagram

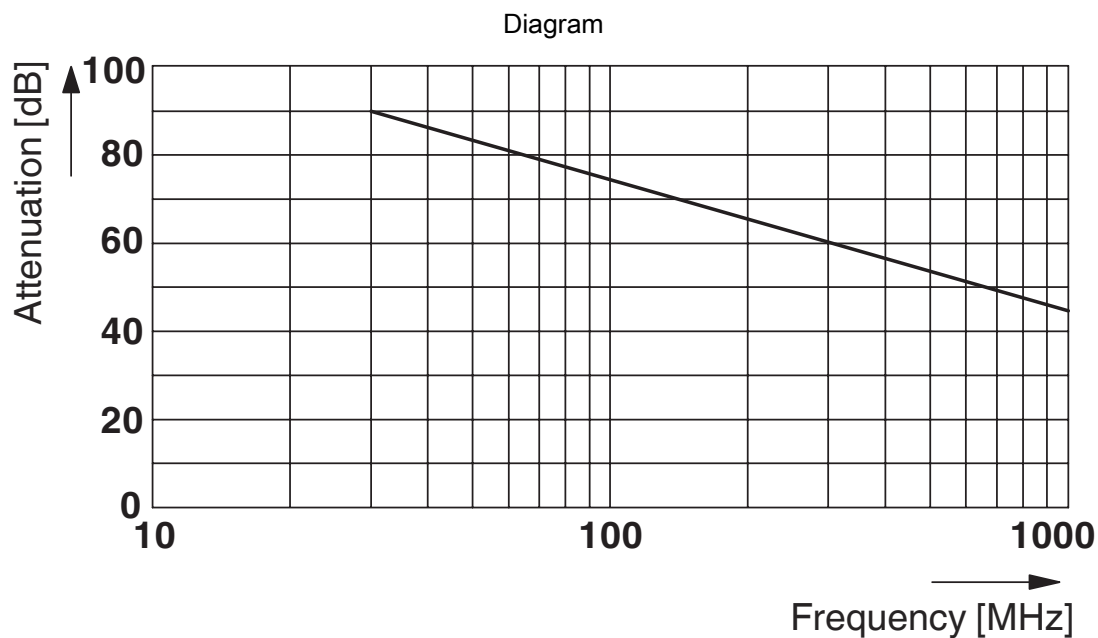


Dimensional drawing

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## Classifications

### ECLASS

ECLASS-13.0	27440116
ECLASS-15.0	27440116

### ETIM

ETIM 9.0	EC002635
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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: n/a)
SCIP	9b3f5bf4-79b5-46a1-a350-d72211adbca6

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