

# RC/TWGM/KVD/LBL 16+3 - Cable connector

1685518

<https://www.phoenixcontact.com/us/products/1685518>



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Cable connector, number of positions: 19, status display: no; master cable connection: M23 screw locking, shielding: yes, this item is expected to be lead-free from Q3 2026 in accordance with RoHS II without exception 6c (Pb < 0.1%), a lead-free alternative is possible on request in advance. This product is in the process of being discontinued. This product must no longer be considered for new projects. Please contact your sales representative for alternatives.



## Commercial data

Item number	1685518
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	AB31
Product key	ABRAFC
GTIN	4017918878917
Weight per piece (including packing)	212.6 g
Weight per piece (excluding packing)	207.494 g
Customs tariff number	85366990
Country of origin	DE

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## Technical data

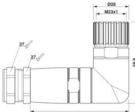
### Notes

Notes on operation	The connector is designed for use on sensor/actuator boxes with an M23 plug-in connection.
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### Product properties

Product type	Circular connector (cable-side)
Number of positions	19

### Dimensions

Dimensional drawing	
Width	26 mm
Height	60 mm
Length	92 mm

### Material specifications

Material Housing	GD-Zn
Seal material	FPM

### Connection data

Connection assignment	Slot/position = Wire color or connection
	1 / 4 (A) = 15 = WH
	1 / 2 (B) = 7 = GYPK
	2 / 4 (A) = 5 = GN
	2 / 2 (B) = 4 = RDBU
	3 / 4 (A) = 16 = YE
	3 / 2 (B) = 8 = WHGN
	4 / 4 (A) = 3 = GY
	4 / 2 (B) = 14 = BNGN
	5 / 4 (A) = 17 = PK
	5 / 2 (B) = 9 = WHYE
	6 / 4 (A) = 2 = RD
	6 / 2 (B) = 13 = YEBN
	7 / 4 (A) = 11 = BK
	7 / 2 (B) = 10 = WHGY
	8 / 4 (A) = 1 = VT
	8 / 2 (B) = 18 = GYBN
	1-8 / 1 (+ 120 V) = 19 = BN
	1-8 / 3 (0 V) = 6 = BU

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1-8 / 5 (PE) = 12 = GNYE

## Electrical properties

Nominal voltage $U_N$	150 V
Rated current, total	10 A (with 1 mm <sup>2</sup> conductor cross-section)

## Connector

### Connection 2

Head design	Socket
Head cable outlet	angled
Head thread type	M23

### 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
Overshoot 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

## Cable/line

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External cable diameter	9.5 mm ... 14.5 mm
Connection method	M23 screw locking

## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP65
	IP67
Ambient temperature (operation)	-20 °C ... 125 °C

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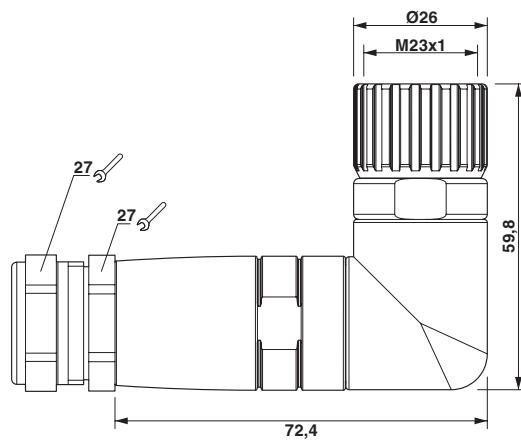


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## Drawings

Dimensional drawing



Dimensional drawing

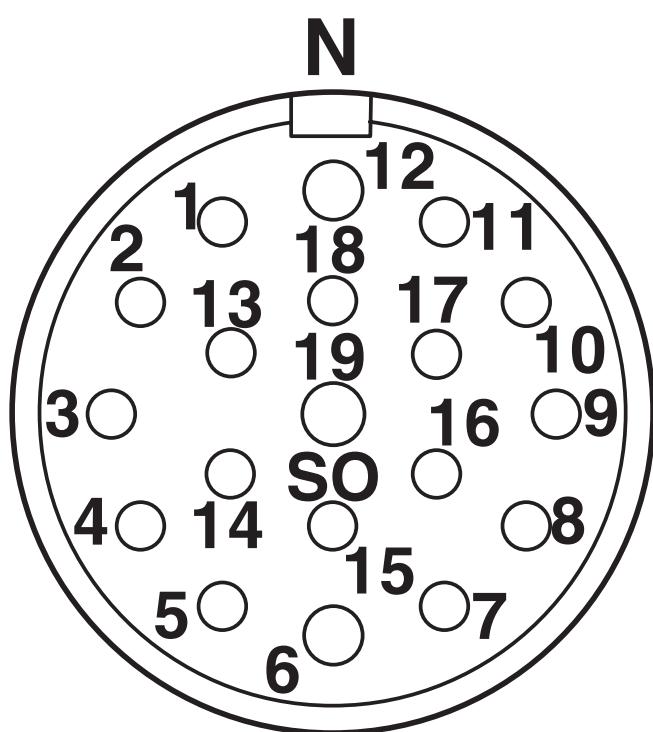
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Schematic diagram



Pin assignment M23 socket, 19-pos., female side view

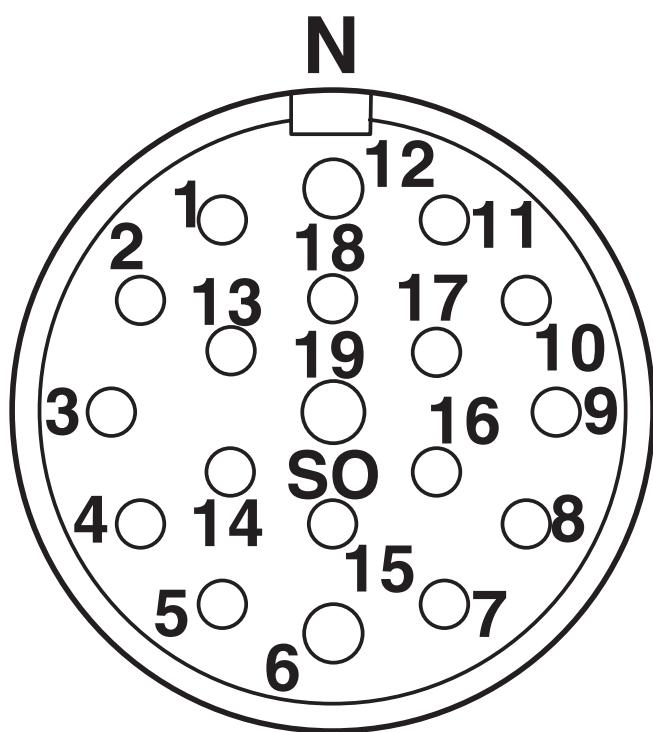
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Schematic diagram



Connector pin assignment

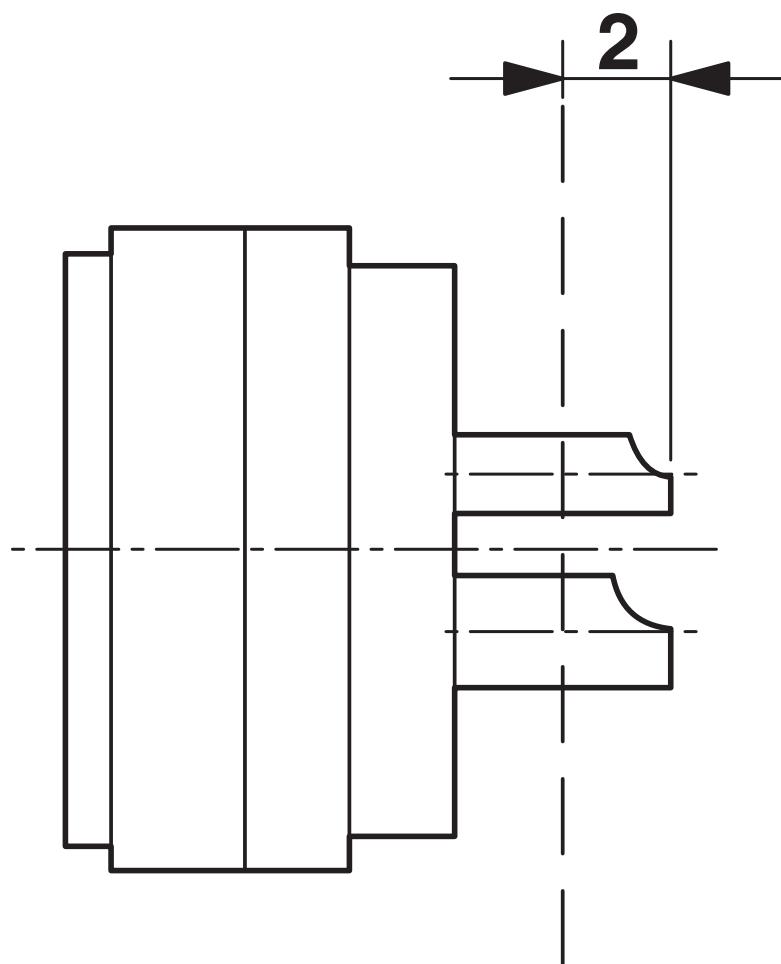
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Schematic diagram



Dimensional drawing

## Classifications

### ECLASS

ECLASS-13.0	27440116
ECLASS-15.0	27440116

### ETIM

ETIM 9.0	EC002635
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### UNSPSC

UNSPSC 21.0	31261500
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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	9792afa3-1321-42b5-a891-d65899a66248

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