

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



1685505

<https://www.phoenixcontact.com/us/products/1685505>

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Cable connector, number of positions: 19, status display: no; master cable connection: M23 screw locking, shielding: yes. 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	1685505
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	AB31
Product key	ABRAFA
GTIN	4017918878900
Weight per piece (including packing)	146.8 g
Weight per piece (excluding packing)	142.796 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	Master cable, assembled
Number of positions	19

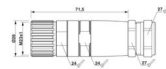
### Electrical properties

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

### Signaling

Status display present	no
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### Dimensions

Dimensional drawing	
Width	26 mm
Height	26 mm
Length	91 mm

### Material specifications

Material Housing	GD-Zn
Seal material	FPM

### Connector

#### Connection 2

Head design	Socket
Head cable outlet	straight
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

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Number of positions	19
Direction of rotation	Standard
Connection profile	16+3
Number (Contact group 1)	3
Contact diameter (Contact group 1)	1.5 mm
Litz wires Min. cross section (Contact group 1)	0.08 mm <sup>2</sup>
Litz wires Max. cross section (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 group 2)	16
Contact diameter (Contact group 2)	1 mm
Litz wires Max. cross section (Contact group 2)	1 mm <sup>2</sup>
Rated current Contact (Contact group 2)	8 A
Number (Contact group 3)	1
Contact diameter (Contact group 3)	1.5 mm
Rated current Contact (Contact group 3)	8 A

## Cable/line

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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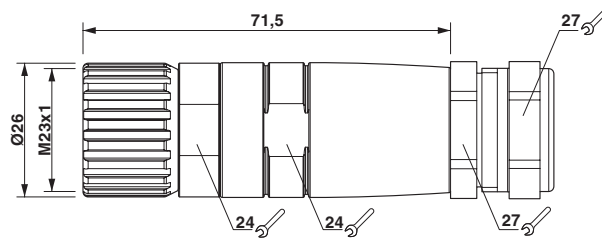


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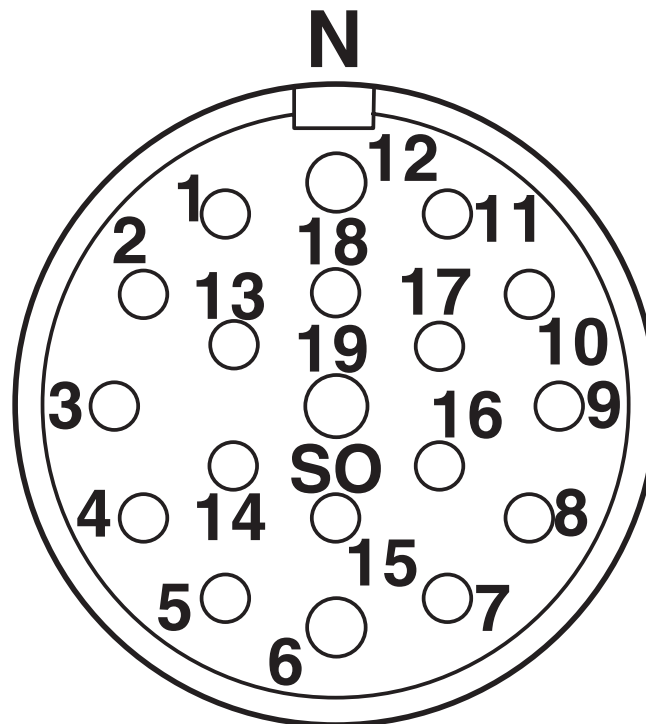
## Drawings

Dimensional drawing



Dimensional drawing

Schematic diagram



Connector pin assignment

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Schematic diagram



Dimensional drawing

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## Classifications

### ECLASS

ECLASS-13.0	27440202
ECLASS-15.0	27440202

### ETIM

ETIM 10.0	EC000437
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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	c6d466a8-286e-4a8b-87a1-7715ba227c6c

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