

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 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	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

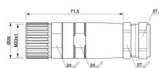
Electrical properties

Nominal voltage U_N	150 V
Rated current, total	10 A (with 1 mm ² 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 (Contact group 1)	3
Diameter Contact (Contact group 1)	1.5 mm
Litz wire cross-section min. Contact (Contact group 1)	0.08 mm ²
Litz wire cross-section max. Contact (Contact group 1)	1 mm ²
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 ²
Litz wire cross-section max. Contact (Contact group 2)	1 mm ²
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

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

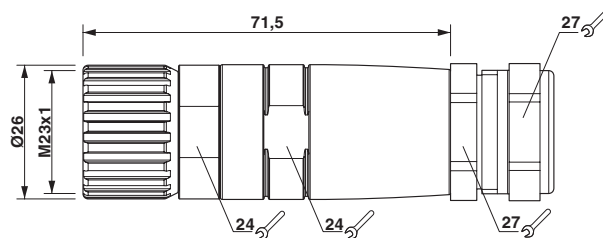
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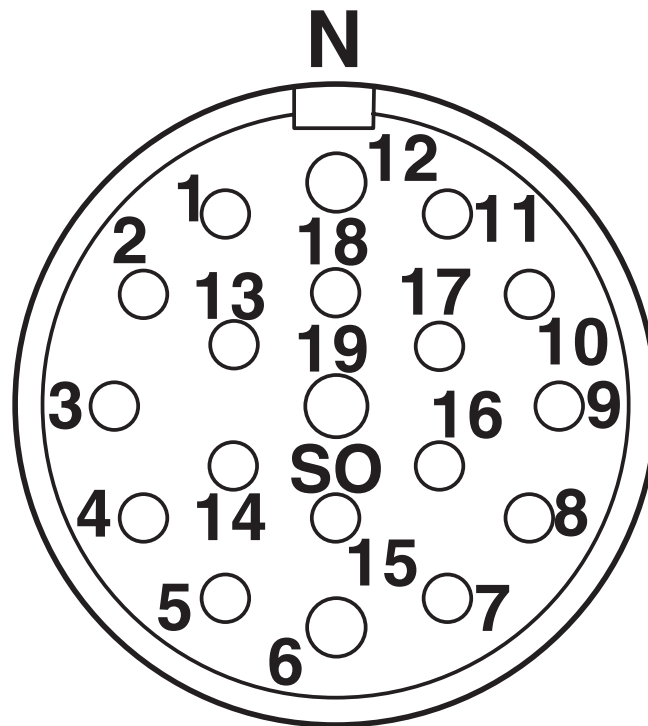
Drawings

Dimensional drawing



Dimensional drawing

Schematic diagram



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

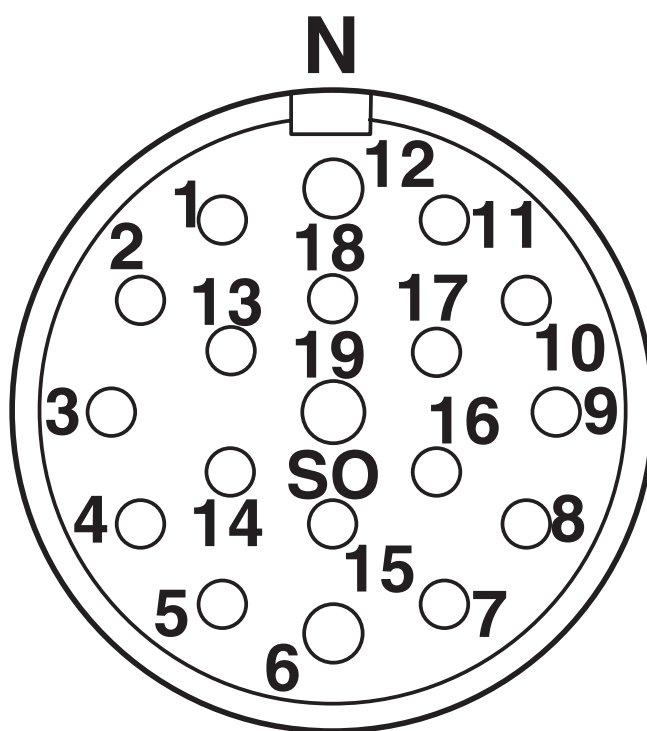
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Schematic diagram

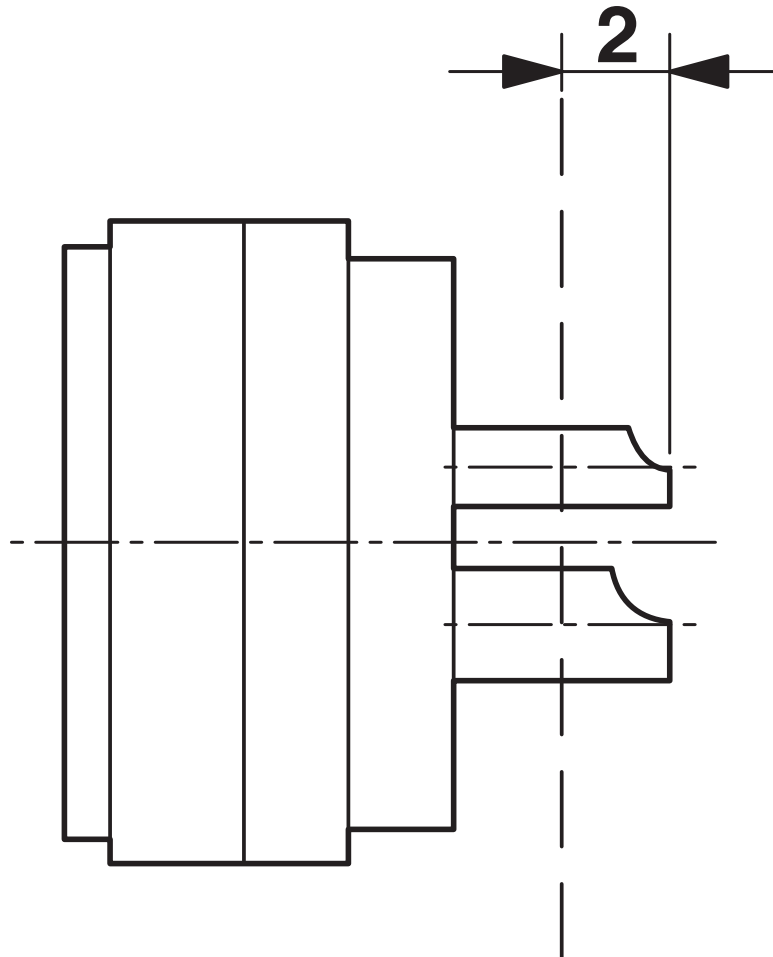


Connector pin assignment

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Schematic diagram



Dimensional drawing

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Classifications

ECLASS

ECLASS-13.0	27440202
ECLASS-15.0	27440202

ETIM

ETIM 9.0	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