

# V-RC/TGUM 13/KVD 13/LBL 16+3 - Cable connector



1000042

<https://www.phoenixcontact.com/us/products/1000042>

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Cable connector, number of positions: 19, status display: no; master cable connection: M23 screw locking, shielding: no. 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	1000042
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	AB31
Product key	ABRAFA
GTIN	4017918399849
Weight per piece (including packing)	100 g
Weight per piece (excluding packing)	95.757 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	26 mm
Length	69 mm

### Material specifications

Material Housing	GD-Zn
Flammability rating according to UL 94	V0

### 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	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
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	10 mm ... 14 mm
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Connection method	M23 screw locking
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## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP65
	IP67
Ambient temperature (operation)	-20 °C ... 80 °C

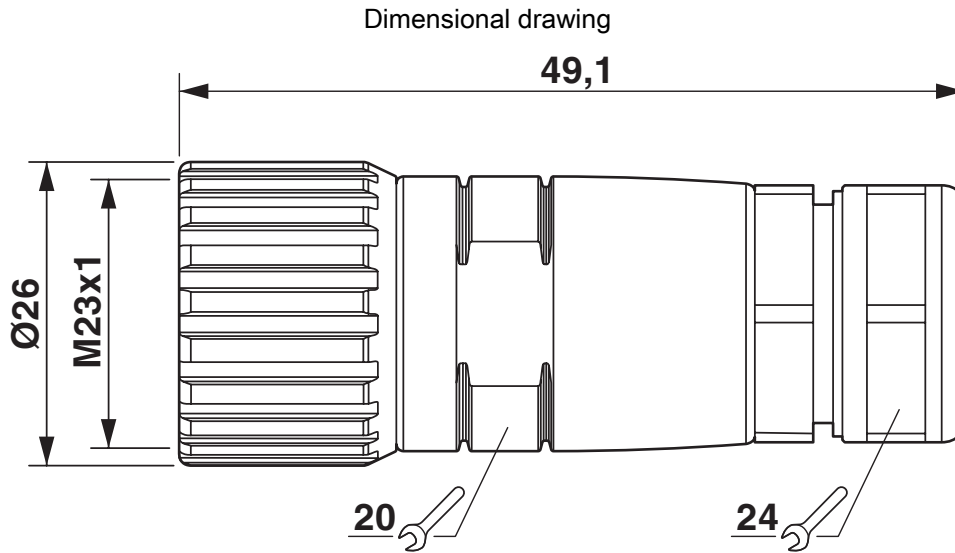
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## Drawings



Dimensional drawing

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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 10.0	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: 7439-92-1)
SCIP	c2e6bbde-4537-411b-b72a-4d4efe387a2b

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