

## Round cable - VIP-CAB-FLK20/FR/OE/0,14/1,0M - 2900139

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Round cable set; connection 1: Single wires (20-position) (The wires are marked and fitted with ferrules); connection 2: IDC/FLK socket strip (1x 20-position, 90 °-out put); cable length: 1 m

### Your advantages

- 20 and 50-pos.
- Connector according to IEC 60603-13
- Open end at one end
- 1:1 connection



### Key Commercial Data

Packing unit	1 pc
GTIN	 4 046356 476942
GTIN	4046356476942

### Technical data

#### Ambient conditions

Ambient temperature (operation)	-40 °C ... 70 °C (fixed installation)
	-10 °C ... 70 °C (flexible installation)
Ambient temperature (storage/transport)	-40 °C ... 80 °C
Maximum altitude	≤ 2000 m
Degree of protection	IP00
	≥ IP54 (Installation location)

#### General

Max. permissible operating voltage	25 V AC
	60 V DC
Max. current carrying capacity per path	1 A (50 °C)
	0.6 A (70 °C)
Length of cable	1 m

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## Technical data

### General

External cable diameter	7.6 mm ±0.4 mm
Single wire, cross section	0.14 mm <sup>2</sup>
Single wire, cross section [AWG]	26
Single wire, number of litz wires	7
Single wire, material	Cu tin-plated
Wire diameter incl. insulation	1 mm ±0.03 mm
Smallest bending radius, fixed installation	64 mm
Smallest bending radius, movable installation	120 mm
Bending cycles	5000 (at a radius of ≥ 15x outside diameter)
Cable, preassembly	Insulation displacement, IEC 60352-4/DIN EN 60352-4
Shielding	no
Cable insulation resistance	≥ 20 MΩ/km (20 °C)
Cable resistance	≤ 145 Ω/km (20 °C)
Outer sheath, material	Semi-rigid PVC
External sheath, color	gray
Nominal operating mode	100% operating factor

### Connection data

Connection name	Field level
Connection in acc. with standard	IEC 60603-13
Connection method	IDC/FLK socket strip
Number of connections	1
Number of positions	20
Exit angle	90 °
Insertion/withdrawal cycles	> 50
Pitch	2.54 mm

### Connection data 2

Connection name	Controller level
Connection method	Single wires
Number of positions	20
Note	The wires are marked and fitted with ferrules

### Standards and Regulations

Flame resistance	UL VW-1
	CSA FT-1
	IEC 60332-1-2
	VDE 0842, Part 332-1-2
	IEC 60332-3-22
Resistance to oil	against occasional splashes
Gasoline resistance	against occasional splashes
Designation	Air clearances and creepage distances

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## Technical data

### Standards and Regulations

Standards/regulations	DIN EN 50178
Rated insulation voltage	63 V
Rated surge voltage	0.6 kV
Insulation	Functional insulation
Pollution degree	2
Overvoltage category	II

### Supported controller

Controller	universal
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### Color code

Connector 1 = connector 2 (optional) = wire color	IDC/FLK20 (1) = black
	IDC/FLK20 (2) = brown
	IDC/FLK20 (3) = red
	IDC/FLK20 (4) = orange
	IDC/FLK20 (5) = yellow
	IDC/FLK20 (6) = green
	IDC/FLK20 (7) = blue
	IDC/FLK20 (8) = violet
	IDC/FLK20 (9) = gray
	IDC/FLK20 (10) = white
	IDC/FLK20 (11) = white-black
	IDC/FLK20 (12) = white-brown
	IDC/FLK20 (13) = white-red
	IDC/FLK20 (14) = white-orange
	IDC/FLK20 (15) = white-yellow
	IDC/FLK20 (16) = white-green
	IDC/FLK20 (17) = white-blue
	IDC/FLK20 (18) = white-violet
	IDC/FLK20 (19) = white-gray
	IDC/FLK20 (20) = brown-black

### Environmental Product Compliance

China RoHS	Environmentally Friendly Use Period = 50 years
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

## Drawings

## Round cable - VIP-CAB-FLK20/FR/OE/0,14/1,0M - 2900139

Diagram



Maximum permissible current per path in uncoiled state

### Classifications

#### eCl@ss

eCl@ss 10.0.1	27242220
eCl@ss 4.0	27060300
eCl@ss 4.1	27060300
eCl@ss 5.0	27242200
eCl@ss 5.1	27242200
eCl@ss 6.0	27249200
eCl@ss 7.0	27249205
eCl@ss 8.0	27249205
eCl@ss 9.0	27242220

#### ETIM

ETIM 2.0	EC000237
ETIM 3.0	EC000237
ETIM 4.0	EC000237
ETIM 5.0	EC000237
ETIM 6.0	EC000237
ETIM 7.0	EC000237

#### UNSPSC

UNSPSC 6.01	26121620
UNSPSC 7.0901	26121620
UNSPSC 11	26121620

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## Classifications

### UNSPSC

UNSPSC 12.01	26121620
UNSPSC 13.2	26121620
UNSPSC 18.0	26121620
UNSPSC 19.0	26121620
UNSPSC 20.0	26121620
UNSPSC 21.0	26121620

## Approvals

### Approvals

#### Approvals

UL Listed / cUL Listed / EAC / cULus Listed

#### Ex Approvals

### Approval details

UL Listed		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>	FILE E 238705
Nominal voltage UN		125 V	
Nominal current IN		1 A	

cUL Listed		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>	FILE E 238705
Nominal voltage UN		125 V	
Nominal current IN		1 A	

EAC		RU*- DE.HB*35.B00385
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cULus Listed	
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## Round cable - VIP-CAB-FLK20/FR/OE/0,14/1,0M - 2900139

### Accessories

#### Accessories

#### Marker carrier cable

Cable marker carrier - KME - 0807083



Cable marker carrier, white, unlabeled, mounting type: Assembly with cable binders, cable diameter: > 5 mm, lettering field size: 20 mm x 8 mm

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