

VIP-CAB-FLK.../0,14/...M

VIP - VARIOFACE Professional System cables with molded FLK connector

INTERFACE

Data sheet
103490_en_00

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1 Description

Sensors and actuators have a single-wire connection. Using the new molded system cables, field signals are connected safely to the control level. The encapsulation of the connectors ensures a high level of mechanical protection and professional strain relief. For clear identification, individual serial numbers are printed on both ends of the cable.

Color code of VIP-CAB_FLK.../0,14/...M system cables

| Number of conductors | PIN | Conductor color |
|----------------------|-----|-----------------|
| | 1 | Black |
| | 2 | Brown |
| | 3 | Red |
| | 4 | Orange |
| | 5 | Yellow |
| | 6 | Green |
| | 7 | Blue |
| | 8 | Violet |
| | 9 | Gray |
| 10-pos. | 10 | White |
| | 11 | White-black |
| | 12 | White-brown |
| | 13 | White-red |
| 14-pos. | 14 | White-orange |
| | 15 | White-yellow |
| 16-pos. | 16 | White-green |

| Number of conductors | PIN | Conductor color |
|----------------------|-----|-----------------|
| | 17 | White-blue |
| | 18 | White-violet |
| | 19 | White-gray |
| 20-pos. | 20 | Brown-black |
| | 21 | Brown-red |
| | 22 | Brown-orange |
| | 23 | Brown-yellow |
| | 24 | Brown-green |
| | 25 | Brown-blue |
| 26-pos. | 26 | Brown-violet |
| | 27 | Brown-gray |
| | 28 | Brown-white |
| | 29 | Green-black |
| | 30 | Green-brown |
| | 31 | Green-red |
| | 32 | Green-orange |
| | 33 | Green-blue |
| 34-pos. | 34 | Green-violet |
| | 35 | Green-gray |
| | 36 | Green-white |
| | 37 | Yellow-black |
| | 38 | Yellow-brown |
| | 39 | Yellow-red |
| 40-pos. | 40 | Yellow-orange |
| | 41 | Yellow-blue |
| | 42 | Yellow-violet |
| | 43 | Yellow-gray |
| | 44 | Yellow-white |
| | 45 | Gray-black |
| | 46 | Gray-brown |
| | 47 | Gray-red |
| | 48 | Gray-orange |
| | 49 | Gray-yellow |
| 50-pos. | 50 | Gray-green |



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It can be downloaded at www.download.phoenixcontact.com.
A conversion table is available on the Internet at
www.download.phoenixcontact.com/general/7000_en_00.pdf.



This data sheet is valid for all products listed on the following pages:

1.1 Features

- 1:1 connection
- 10 to 50-pos.
- Connectors according to IEC 60603-13
- Available in any choice of length

Note:

Due to the enlarged outer contour of the molded connectors, module types with UM45 profile cannot be connected in combination with three-level terminal blocks using the VIP-CAB-FLK... system cable.

The following module types (10 to 50-pos.) can be connected.

For example, for 20 positions:

- VIP-2/SC/FLK 20
- FLK 20
- FLKM 20
- FLKM 20/ZFKDS
- FLKM 20/LA
- FLKMS 20
- UM45-FLK 20 (double-level connection)
- UM45-FLK 20/ZFKDS (double-level connection)

VIP-CAB-FLK... system cables are not suitable for front adapters (see dimensional drawing).



| | A | B |
|-------------|----|----|
| ...FLK10... | 34 | 46 |
| ...FLK14... | 37 | 49 |
| ...FLK16... | 37 | 49 |
| ...FLK20... | 39 | 51 |
| ...FLK26... | 39 | 51 |
| ...FLK34... | 40 | 52 |
| ...FLK40... | 40 | 52 |
| ...FLK50... | 42 | 55 |



2 Ordering data

| Description | Number of positions | Cable length | Type | Order No. | Pcs./ Pkt. |
|---|---------------------|--------------|-------------------------|-----------|------------|
| Round cable , with 2 molded socket strips | 10 | 0.5 m | VIP-CAB-FLK10/0,14/0,5M | 2318305 | 1 |
| | 10 | 1.0 m | VIP-CAB-FLK10/0,14/1,0M | 2318318 | 1 |
| | 10 | 1.5 m | VIP-CAB-FLK10/0,14/1,5M | 2318321 | 1 |
| | 10 | 2.0 m | VIP-CAB-FLK10/0,14/2,0M | 2318334 | 1 |
| | 10 | 3.0 m | VIP-CAB-FLK10/0,14/3,0M | 2318347 | 1 |
| | 10 | 4.0 m | VIP-CAB-FLK10/0,14/4,0M | 2318350 | 1 |
| | 10 | 6.0 m | VIP-CAB-FLK10/0,14/6,0M | 2318363 | 1 |
| Round cable , same as above, however, in variable lengths (minimum order 5 pieces) | 10 | | VIP-CAB-FLK10/0,14/... | 2318376 | 1 |
| Round cable , with 2 molded socket strips | 14 | 0.5 m | VIP-CAB-FLK14/0,14/0,5M | 2318389 | 1 |
| | 14 | 1.0 m | VIP-CAB-FLK14/0,14/1,0M | 2318392 | 1 |
| | 14 | 1.5 m | VIP-CAB-FLK14/0,14/1,5M | 2318402 | 1 |
| | 14 | 2.0 m | VIP-CAB-FLK14/0,14/2,0M | 2318415 | 1 |
| | 14 | 3.0 m | VIP-CAB-FLK14/0,14/3,0M | 2318428 | 1 |
| | 14 | 4.0 m | VIP-CAB-FLK14/0,14/4,0M | 2318431 | 1 |
| | 14 | 6.0 m | VIP-CAB-FLK14/0,14/6,0M | 2318444 | 1 |
| Round cable , same as above, however, in variable lengths (minimum order 5 pieces) | 14 | | VIP-CAB-FLK14/0,14/... | 2318457 | 1 |

| Description | Number of positions | Cable length | Type | Order No. | Pcs./ Pkt. |
|---|---------------------|--------------|-------------------------|-----------|------------|
| Round cable, with 2 molded socket strips | 16 | 0.5 m | VIP-CAB-FLK16/0,14/0,5M | 2318460 | 1 |
| | 16 | 1.0 m | VIP-CAB-FLK16/0,14/1,0M | 2318473 | 1 |
| | 16 | 1.5 m | VIP-CAB-FLK16/0,14/1,5M | 2318486 | 1 |
| | 16 | 2.0 m | VIP-CAB-FLK16/0,14/2,0M | 2318499 | 1 |
| | 16 | 3.0 m | VIP-CAB-FLK16/0,14/3,0M | 2318509 | 1 |
| | 16 | 4.0 m | VIP-CAB-FLK16/0,14/4,0M | 2318512 | 1 |
| | 16 | 6.0 m | VIP-CAB-FLK16/0,14/6,0M | 2318525 | 1 |
| Round cable, same as above, however, in variable lengths (minimum order 5 pieces) | 16 | | VIP-CAB-FLK16/0,14/... | 2318538 | 1 |
| Round cable, with 2 molded socket strips | 20 | 0.5 m | VIP-CAB-FLK20/0,14/0,5M | 2318541 | 1 |
| | 20 | 1.0 m | VIP-CAB-FLK20/0,14/1,0M | 2318554 | 1 |
| | 20 | 1.5 m | VIP-CAB-FLK20/0,14/1,5M | 2318567 | 1 |
| | 20 | 2.0 m | VIP-CAB-FLK20/0,14/2,0M | 2318570 | 1 |
| | 20 | 3.0 m | VIP-CAB-FLK20/0,14/3,0M | 2318583 | 1 |
| | 20 | 4.0 m | VIP-CAB-FLK20/0,14/4,0M | 2318596 | 1 |
| | 20 | 6.0 m | VIP-CAB-FLK20/0,14/6,0M | 2318606 | 1 |
| Round cable, same as above, however, in variable lengths (minimum order 5 pieces) | 20 | | VIP-CAB-FLK20/0,14/... | 2318619 | 1 |
| Round cable, with 2 molded socket strips | 26 | 0.5 m | VIP-CAB-FLK26/0,14/0,5M | 2318622 | 1 |
| | 26 | 1.0 m | VIP-CAB-FLK26/0,14/1,0M | 2318635 | 1 |
| | 26 | 1.5 m | VIP-CAB-FLK26/0,14/1,5M | 2318648 | 1 |
| | 26 | 2.0 m | VIP-CAB-FLK26/0,14/2,0M | 2318651 | 1 |
| | 26 | 3.0 m | VIP-CAB-FLK26/0,14/3,0M | 2318664 | 1 |
| | 26 | 4.0 m | VIP-CAB-FLK26/0,14/4,0M | 2318677 | 1 |
| | 26 | 6.0 m | VIP-CAB-FLK26/0,14/6,0M | 2318680 | 1 |
| Round cable, same as above, however, in variable lengths (minimum order 5 pieces) | 26 | | VIP-CAB-FLK26/0,14/... | 2318693 | 1 |
| Round cable, with 2 molded socket strips | 34 | 0.5 m | VIP-CAB-FLK34/0,14/0,5M | 2318703 | 1 |
| | 34 | 1.0 m | VIP-CAB-FLK34/0,14/1,0M | 2318716 | 1 |
| | 34 | 1.5 m | VIP-CAB-FLK34/0,14/1,5M | 2318729 | 1 |
| | 34 | 2.0 m | VIP-CAB-FLK34/0,14/2,0M | 2318732 | 1 |
| | 34 | 3.0 m | VIP-CAB-FLK34/0,14/3,0M | 2318745 | 1 |
| | 34 | 4.0 m | VIP-CAB-FLK34/0,14/4,0M | 2318758 | 1 |
| | 34 | 6.0 m | VIP-CAB-FLK34/0,14/6,0M | 2318761 | 1 |
| Round cable, same as above, however, in variable lengths (minimum order 5 pieces) | 34 | | VIP-CAB-FLK34/0,14/... | 2318774 | 1 |
| Round cable, with 2 molded socket strips | 40 | 0.5 m | VIP-CAB-FLK40/0,14/0,5M | 2318787 | 1 |
| | 40 | 1.0 m | VIP-CAB-FLK40/0,14/1,0M | 2318790 | 1 |
| | 40 | 1.5 m | VIP-CAB-FLK40/0,14/1,5M | 2318800 | 1 |
| | 40 | 2.0 m | VIP-CAB-FLK40/0,14/2,0M | 2318813 | 1 |
| | 40 | 3.0 m | VIP-CAB-FLK40/0,14/3,0M | 2318826 | 1 |
| | 40 | 4.0 m | VIP-CAB-FLK40/0,14/4,0M | 2318839 | 1 |
| | 40 | 6.0 m | VIP-CAB-FLK40/0,14/6,0M | 2318842 | 1 |
| Round cable, same as above, however, in variable lengths (minimum order 5 pieces) | 40 | | VIP-CAB-FLK40/0,14/... | 2318855 | 1 |
| Round cable, with 2 molded socket strips | 50 | 0.5 m | VIP-CAB-FLK50/0,14/0,5M | 2318868 | 1 |
| | 50 | 1.0 m | VIP-CAB-FLK50/0,14/1,0M | 2318871 | 1 |
| | 50 | 1.5 m | VIP-CAB-FLK50/0,14/1,5M | 2318884 | 1 |
| | 50 | 2.0 m | VIP-CAB-FLK50/0,14/2,0M | 2318897 | 1 |
| | 50 | 3.0 m | VIP-CAB-FLK50/0,14/3,0M | 2318907 | 1 |
| | 50 | 4.0 m | VIP-CAB-FLK50/0,14/4,0M | 2318910 | 1 |
| | 50 | 6.0 m | VIP-CAB-FLK50/0,14/6,0M | 2318923 | 1 |
| Round cable, same as above, however, in variable lengths (minimum order 5 pieces) | 50 | | VIP-CAB-FLK50/0,14/... | 2318936 | 1 |

3 Technical data

General data

| | |
|--|-------------------------------|
| Maximum permissible operating voltage | < 50 V AC/60 V DC |
| Maximum permissible current carrying capacity per path | 1 A |
| Maximum conductor resistance | ≤ 0.16 Ω/m |
| Ambient temperature range | |
| Operation | -20°C ... +50°C |
| Storage/transport | -20°C ... +70°C |
| Conductor cross-section | 0.14 mm ² (26 AWG) |
| Conductor structure | 7 litz wires, Cu tin-plated |
| Outside diameter | |

| | |
|---------|---------|
| 10-pos. | 6.1 mm |
| 14-pos. | 6.4 mm |
| 16-pos. | 6.8 mm |
| 20-pos. | 7.6 mm |
| 26-pos. | 8.3 mm |
| 34-pos. | 8.7 mm |
| 40-pos. | 9.9 mm |
| 50-pos. | 10.3 mm |

| | |
|----------|---|
| Assembly | Insulation displacement connection method according to IEC 60352-4/ DIN EN 60352-4 |
|----------|---|

Approvals

UL, CUL Applied for

4 Ordering example for system cables

– 10-pos. cable, 7.6 m long

| Quantity | Order No. | Length [m] |
|----------|-----------|-----------------|
| 1 | 2318376 | 7.6 |
| | | Minimum 0.5 m |
| | | Maximum 100.0 m |
| | | Increment 0.1 m |

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