

VIP-CAB-FLK40/FS/NA/HF/ 2,0M - Cable



1116410

<https://www.phoenixcontact.com/us/products/1116410>

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Assembled, shielded, halogen-free round cable; connection 1: IDC/FLK socket strip (1x 40-position, 180 °-out put); connection 2: Single wires (40-position); cable length: 2 m

Commercial data

Item number	1116410
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	C423
Product key	DK2AH7
GTIN	4063151042165
Weight per piece (including packing)	349 g
Weight per piece (excluding packing)	349 g
Customs tariff number	85444290
Country of origin	DE

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Technical data

Product properties

Product type	System cable
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Environmental and real-life conditions

Ambient conditions

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

Electrical properties

Operating voltage (AC)	≤ 30 V AC
Operating voltage (DC)	≤ 60 V DC
Nominal operating mode	100% operating factor
Current (Per path, 50°C)	≤ 1 A (Uncoiled, see derating)
Current (Per path, 70°C)	≤ 0.6 A (Uncoiled, see derating)

Cable/line

Cable length	2 m
UL AWM Style	21946
Number of positions	40
Shielded	yes
Conductor type	Assembled, shielded, halogen-free round cable
Conductor structure signal line	7x 0.16 mm
AWG signal line	26
Conductor cross-section	40x 0.14 mm ²
Wire diameter incl. insulation	1 mm ±0.03 mm
External cable diameter	9.80 mm ±0.4 mm
Outer sheath, material	Halogen-free sheath
External sheath, color	gray
Conductor material	Tin-plated Cu litz wires
Cable resistance	≤ 145 Ω/km
Insulation resistance	≥ 20 MΩ*km
Smallest bending radius, fixed installation	102 mm
Smallest bending radius, movable installation	184 mm
Dynamic load capacity (bending)	Max. bending cycles: 5000
Halogen-free	yes
Flame resistance	IEC 60332-1-2 (raw cable) VDE 0842, Part 332-1-2 (raw cable)

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1116410

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	IEC 60332-3-22 (raw cable)
Resistance to oil	can withstand occasional splashes (raw cable)
Cable type	Cable for one module

Color code: Single-core wire

black	IDC/FLK50 (1) = IDC/FLK50 (1)
brown	IDC/FLK50 (2) = IDC/FLK50 (2)
red	IDC/FLK50 (3) = IDC/FLK50 (3)
orange	IDC/FLK50 (4) = IDC/FLK50 (4)
yellow	IDC/FLK50 (5) = IDC/FLK50 (5)
green	IDC/FLK50 (6) = IDC/FLK50 (6)
blue	IDC/FLK50 (7) = IDC/FLK50 (7)
violet	IDC/FLK50 (8) = IDC/FLK50 (8)
gray	IDC/FLK50 (9) = IDC/FLK50 (9)
white	IDC/FLK50 (10) = IDC/FLK50 (10)
white-black	IDC/FLK50 (11) = IDC/FLK50 (11)
white-brown	IDC/FLK50 (12) = IDC/FLK50 (12)
white-red	IDC/FLK50 (13) = IDC/FLK50 (13)
white-orange	IDC/FLK50 (14) = IDC/FLK50 (14)
white-yellow	IDC/FLK50 (15) = IDC/FLK50 (15)
white-green	IDC/FLK50 (16) = IDC/FLK50 (16)
white-blue	IDC/FLK50 (17) = IDC/FLK50 (17)
white-violet	IDC/FLK50 (18) = IDC/FLK50 (18)
white-gray	IDC/FLK50 (19) = IDC/FLK50 (19)
brown-black	IDC/FLK50 (20) = IDC/FLK50 (20)
brown-red	IDC/FLK50 (21) = IDC/FLK50 (21)
brown-orange	IDC/FLK50 (22) = IDC/FLK50 (22)
brown-yellow	IDC/FLK50 (23) = IDC/FLK50 (23)
brown-green	IDC/FLK50 (24) = IDC/FLK50 (24)
brown-blue	IDC/FLK50 (25) = IDC/FLK50 (25)
brown-violet	IDC/FLK50 (26) = IDC/FLK50 (26)
brown-gray	IDC/FLK50 (27) = IDC/FLK50 (27)
brown-white	IDC/FLK50 (28) = IDC/FLK50 (28)
green-black	IDC/FLK50 (29) = IDC/FLK50 (29)
green-brown	IDC/FLK50 (30) = IDC/FLK50 (30)
green-red	IDC/FLK50 (31) = IDC/FLK50 (31)
green-orange	IDC/FLK50 (32) = IDC/FLK50 (32)
green-blue	IDC/FLK50 (33) = IDC/FLK50 (33)
green-violet	IDC/FLK50 (34) = IDC/FLK50 (34)
green-gray	IDC/FLK50 (35) = IDC/FLK50 (35)
green-white	IDC/FLK50 (36) = IDC/FLK50 (36)
yellow-black	IDC/FLK50 (37) = IDC/FLK50 (37)
yellow-brown	IDC/FLK50 (38) = IDC/FLK50 (38)
yellow-red	IDC/FLK50 (39) = IDC/FLK50 (39)

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yellow-orange	IDC/FLK50 (40) = IDC/FLK50 (40)
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Connection data

Connection 1

Connection in acc. with standard	IEC 60603-13 (in compliance)
Connection method	IDC/FLK socket strip
Number of connections	1
Number of positions	40
Exit angle	180 °
Insertion/withdrawal cycles	> 50
Pitch	2.54 mm

Connection 2

Connection method	Single wires
Stripping length (Sheath)	≈  mm
Number of positions	40

Notes

Notes on operation	For proper use, the specifications of the installation directive (see Downloads) must be observed. For applications or use with third-party products, the specifications, and the safety and warning instructions of the respective third-party manufacturer must also be met.
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Drawings

Diagram



Maximum permissible current per path in uncoiled state

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Classifications

ECLASS

ECLASS-13.0	27242220
ECLASS-15.0	27242220

ETIM

ETIM 10.0	EC000237
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UNSPSC

UNSPSC 21.0	26121600
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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
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Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com