

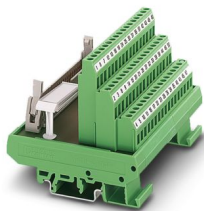
FLKMS 50 - Interface module

2281597

<https://www.phoenixcontact.com/us/products/2281597>



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VARIOFACE module, with screw connection and flat-ribbon cable connector, for mounting on NS 32 or NS 35/7.5, with pin strip and short and long locking latches for socket strips, 50-pos.

Commercial data

Item number	2281597
Packing unit	5 pc
Minimum order quantity	1 pc
Sales key	C422
Product key	CK2181
Catalog page	Page 243 (IF-2007)
GTIN	4017918054847
Weight per piece (including packing)	239.74 g
Weight per piece (excluding packing)	239.74 g
Customs tariff number	85369010
Country of origin	DE

FLKMS 50 - Interface module

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Technical data

Product properties

Product type	Interface module
Product family	VARIOFACE
Number of positions	50
No. of channels	16

Data management status

Article revision	08
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Insulation characteristics: Air clearances and creepage distances

Insulation	Functional insulation
Overvoltage category	II
Pollution degree	2

Electrical properties

Operating voltage (AC)	≤ 30 V AC
Operating voltage (DC)	≤ 60 V DC
Current (per branch)	≤ 1 A

Air clearances and creepage distances

Rated insulation voltage	63 V
Rated surge voltage	0.6 kV (1.2/50 μs)

Supported controller SIEMENS S7-400

Suitable I/O card	6ES7431-0HH0-0AB0
	6ES7431-1KF00-0AB0
	6ES7431-1KF10-0AB0
	6ES7431-1KF20-0AB0
	6ES7431-7KF00-0AB0
	6ES7431-7KF10-0AB0
	6ES7431-7QH00-0AB0
	6ES7432-1HF00-0AB0

Connection data

Connection 1 (control level)

Connection in acc. with standard	IEC 60603-13
Connection method	IDC/FLK pin strip
Number of connections	1
Number of positions	50
Insertion/withdrawal cycles	> 50
Pitch	2.54 mm

Connection 2 (field level)

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Connection method	Screw connection
Stripping length	7 mm
Screw thread	M3
Number of positions	50
Conductor cross section rigid	0.2 mm² ... 4 mm²
Conductor cross-section rigid (2 conductors with same cross section)	0.2 mm² ... 1.5 mm²
Conductor cross section flexible	0.2 mm² ... 2.5 mm²
	0.25 mm² ... 1.5 mm² (Ferrule without plastic sleeve)
	0.25 mm² ... 2.5 mm² (Ferrule with plastic sleeve)
Conductor cross section flexible (2 conductors with same cross section)	0.2 mm² ... 1.5 mm²
	0.2 mm² ... 0.75 mm² (Ferrule without plastic sleeve)
	0.5 mm² ... 0.5 mm² (TWIN ferrule with plastic sleeve)
Conductor cross section AWG	24 ... 12
Tightening torque	0.5 Nm ... 0.6 Nm
Pitch	5.08 mm

Signaling

Status display present	No
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Dimensions

Item dimensions

Width	101.25 mm
Height	77 mm
Depth	70.97 mm

Material specifications

Color	green (RAL 6021)
Housing insulation material	Polyamide 6.6 green

Environmental and real-life conditions

Ambient conditions

Degree of protection (Module)	IP00
Degree of protection (Installation location)	≥ IP54
Ambient temperature (operation)	-20 °C ... 50 °C
Ambient temperature (storage/transport)	-20 °C ... 70 °C
Altitude	≤ 2000 m

Standards and regulations

Air clearances and creepage distances

Standards/regulations	EN IEC 60664-1
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Mounting

Mounting type	DIN rail mounting
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Mounting position	any
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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

Circuit diagram



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Classifications

ECLASS

ECLASS-11.0	27141152
ECLASS-12.0	27141152
ECLASS-13.0	27141152

ETIM

ETIM 8.0	EC002780
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UNSPSC

UNSPSC 21.0	39121400
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Environmental product compliance

EU RoHS	
Fulfills EU RoHS substance requirements	Yes, No exemptions
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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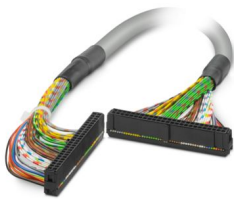
Accessories

FLK EZ-DR.../.../... - Cable

2295059

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Round cable, with preassembly, not shielded, variable cable length



FLK EZ-DR-S.../.../... - Cable

2295046

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Round cable, with preassembly, shielded, variable cable length



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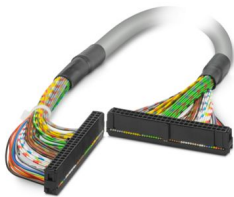
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FLK 50/EZ-DR/ 50/KONFEK - Cable

2289065

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Round cable set; connection 1: IDC/FLK socket strip (1x 50-position); connection 2: IDC/FLK socket strip (1x 50-position); cable length: 0.5 m

FLK 50/EZ-DR/ 100/KONFEK - Cable

2289078

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Round cable set; connection 1: IDC/FLK socket strip (1x 50-position); connection 2: IDC/FLK socket strip (1x 50-position); cable length: 1 m

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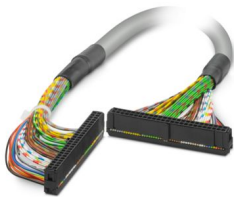
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FLK 50/EZ-DR/ 150/KONFEK - Cable

2289081

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Round cable set; connection 1: IDC/FLK socket strip (1x 50-position); connection 2: IDC/FLK socket strip (1x 50-position); cable length: 1.5 m

FLK 50/EZ-DR/ 200/KONFEK - Cable

2289094

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Round cable set; connection 1: IDC/FLK socket strip (1x 50-position); connection 2: IDC/FLK socket strip (1x 50-position); cable length: 2 m

FLKMS 50 - Interface module



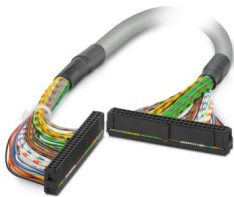
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FLK 50/EZ-DR/ 250/KONFEK - Cable

2289104

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Round cable set; connection 1: IDC/FLK socket strip (1x 50-position); connection 2: IDC/FLK socket strip (1x 50-position); cable length: 2.5 m

FLK 50/EZ-DR/ 300/KONFEK - Cable

2289117

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Round cable set; connection 1: IDC/FLK socket strip (1x 50-position); connection 2: IDC/FLK socket strip (1x 50-position); cable length: 3 m

FLKMS 50 - Interface module

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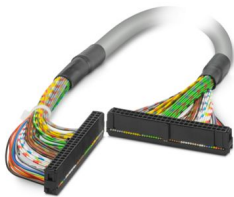
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FLK 50/EZ-DR/ 350/KONFEK - Cable

2289120

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Round cable set; connection 1: IDC/FLK socket strip (1x 50-position); connection 2: IDC/FLK socket strip (1x 50-position); cable length: 3.5 m

FLK 50/EZ-DR/ 400/KONFEK - Cable

2289133

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Round cable set; connection 1: IDC/FLK socket strip (1x 50-position); connection 2: IDC/FLK socket strip (1x 50-position); cable length: 4 m

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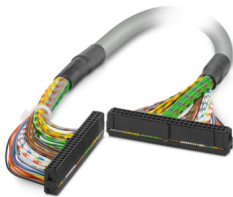
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FLK 50/EZ-DR/ 450/KONFEK - Cable

2289573

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Round cable set; connection 1: IDC/FLK socket strip (1x 50-position); connection 2: IDC/FLK socket strip (1x 50-position); cable length: 4.5 m

FLK 50/EZ-DR/ 500/KONFEK - Cable

2289586

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Round cable set; connection 1: IDC/FLK socket strip (1x 50-position); connection 2: IDC/FLK socket strip (1x 50-position); cable length: 5 m

FLKMS 50 - Interface module



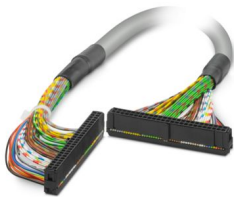
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FLK 50/EZ-DR/ 550/KONFEK - Cable

2289599

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Round cable set; connection 1: IDC/FLK socket strip (1x 50-position); connection 2: IDC/FLK socket strip (1x 50-position); cable length: 5.5 m

FLK 50/EZ-DR/ 600/KONFEK - Cable

2289609

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Round cable set; connection 1: IDC/FLK socket strip (1x 50-position); connection 2: IDC/FLK socket strip (1x 50-position); cable length: 6 m

FLKMS 50 - Interface module



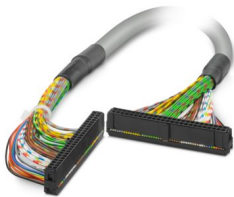
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FLK 50/EZ-DR/ 700/KONFEK - Cable

2289625

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Round cable set; connection 1: IDC/FLK socket strip (1x 50-position); connection 2: IDC/FLK socket strip (1x 50-position); cable length: 7 m

FLK 50/EZ-DR/ 750/KONFEK - Cable

2289638

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Round cable set; connection 1: IDC/FLK socket strip (1x 50-position); connection 2: IDC/FLK socket strip (1x 50-position); cable length: 7.5 m

FLKMS 50 - Interface module

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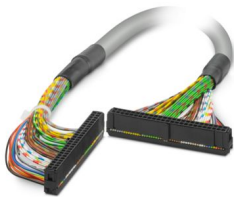
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FLK 50/EZ-DR/ 800/KONFEK - Cable

2289641

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Round cable set; connection 1: IDC/FLK socket strip (1x 50-position); connection 2: IDC/FLK socket strip (1x 50-position); cable length: 8 m

FLK 50/EZ-DR/ 850/KONFEK - Cable

2289654

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Round cable set; connection 1: IDC/FLK socket strip (1x 50-position); connection 2: IDC/FLK socket strip (1x 50-position); cable length: 8.5 m

FLKMS 50 - Interface module



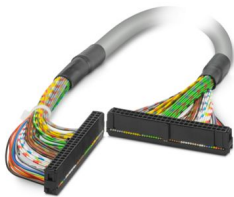
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FLK 50/EZ-DR/ 900/KONFEK - Cable

2289667

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Round cable set; connection 1: IDC/FLK socket strip (1x 50-position); connection 2: IDC/FLK socket strip (1x 50-position); cable length: 9 m

FLK 50/EZ-DR/1000/KONFEK - Cable

2289683

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Round cable set; connection 1: IDC/FLK socket strip (1x 50-position); connection 2: IDC/FLK socket strip (1x 50-position); cable length: 10 m

FLKMS 50 - Interface module



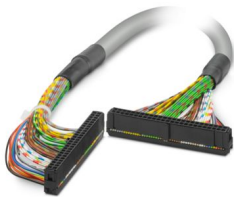
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FLK 50/EZ-DR/ 125/KONFEK - Cable

2296197

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Round cable set; connection 1: IDC/FLK socket strip (1x 50-position); connection 2: IDC/FLK socket strip (1x 50-position); cable length: 1.25 m

FLK 50/EZ-DR/1200/KONFEK - Cable

2296223

<https://www.phoenixcontact.com/us/products/2296223>



Round cable set; connection 1: IDC/FLK socket strip (1x 50-position); connection 2: IDC/FLK socket strip (1x 50-position); cable length: 12 m

FLKMS 50 - Interface module



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FLK 50/EZ-DR/ 50/KONFEK/S - Cable

2299097

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Assembled shielded round cable; connection 1: IDC/FLK socket strip (1x 50-position); connection 2: IDC/FLK socket strip (1x 50-position) (The braided shield is routed to a separate cable end.); cable length: 0.5 m

FLK 50/EZ-DR/ 100/KONFEK/S - Cable

2299107

<https://www.phoenixcontact.com/us/products/2299107>



Assembled shielded round cable; connection 1: IDC/FLK socket strip (1x 50-position); connection 2: IDC/FLK socket strip (1x 50-position) (The braided shield is routed to a separate cable end.); cable length: 1 m

FLKMS 50 - Interface module



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FLK 50/EZ-DR/ 150/KONFEK/S - Cable

2299110

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Assembled shielded round cable; connection 1: IDC/FLK socket strip (1x 50-position); connection 2: IDC/FLK socket strip (1x 50-position) (The braided shield is routed to a separate cable end.); cable length: 1.5 m

FLK 50/EZ-DR/ 200/KONFEK/S - Cable

2299123

<https://www.phoenixcontact.com/us/products/2299123>



Assembled shielded round cable; connection 1: IDC/FLK socket strip (1x 50-position); connection 2: IDC/FLK socket strip (1x 50-position) (The braided shield is routed to a separate cable end.); cable length: 2 m

FLKMS 50 - Interface module



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FLK 50/EZ-DR/ 300/KONFEK/S - Cable

2299136

<https://www.phoenixcontact.com/us/products/2299136>



Assembled shielded round cable; connection 1: IDC/FLK socket strip (1x 50-position); connection 2: IDC/FLK socket strip (1x 50-position) (The braided shield is routed to a separate cable end.); cable length: 3 m

FLK 50/EZ-DR/ 400/KONFEK/S - Cable

2299149

<https://www.phoenixcontact.com/us/products/2299149>



Assembled shielded round cable; connection 1: IDC/FLK socket strip (1x 50-position); connection 2: IDC/FLK socket strip (1x 50-position) (The braided shield is routed to a separate cable end.); cable length: 4 m

FLKMS 50 - Interface module



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FLK 50/EZ-DR/ 600/KONFEK/S - Cable

2299152

<https://www.phoenixcontact.com/us/products/2299152>



Assembled shielded round cable; connection 1: IDC/FLK socket strip (1x 50-position); connection 2: IDC/FLK socket strip (1x 50-position) (The braided shield is routed to a separate cable end.); cable length: 6 m

FLK 50/EZ-DR/1000/KONFEK/S - Cable

2299178

<https://www.phoenixcontact.com/us/products/2299178>



Assembled shielded round cable; connection 1: IDC/FLK socket strip (1x 50-position); connection 2: IDC/FLK socket strip (1x 50-position) (The braided shield is routed to a separate cable end.); cable length: 10 m

FLKMS 50 - Interface module



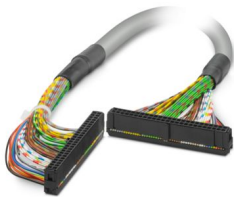
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CABLE-FLK50/0,14/HF/ 0,5M - Cable

2314134

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Assembled, halogen-free round cable; connection 1: IDC/FLK socket strip (1x 50-position); connection 2: IDC/FLK socket strip (1x 50-position); cable length: 0.5 m

CABLE-FLK50/0,14/HF/ 1,0M - Cable

2314147

<https://www.phoenixcontact.com/us/products/2314147>



Assembled, halogen-free round cable; connection 1: IDC/FLK socket strip (1x 50-position); connection 2: IDC/FLK socket strip (1x 50-position); cable length: 1 m

FLKMS 50 - Interface module



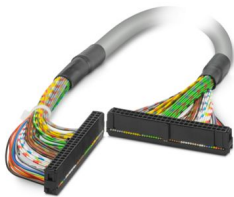
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CABLE-FLK50/0,14/HF/ 1,5M - Cable

2314150

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Assembled, halogen-free round cable; connection 1: IDC/FLK socket strip (1x 50-position); connection 2: IDC/FLK socket strip (1x 50-position); cable length: 1.5 m

CABLE-FLK50/0,14/HF/ 2,0M - Cable

2314163

<https://www.phoenixcontact.com/us/products/2314163>



Assembled, halogen-free round cable; connection 1: IDC/FLK socket strip (1x 50-position); connection 2: IDC/FLK socket strip (1x 50-position); cable length: 2 m

FLKMS 50 - Interface module



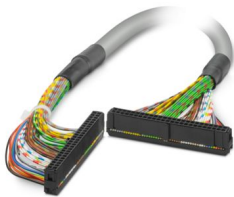
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CABLE-FLK50/0,14/HF/ 2,5M - Cable

2314176

<https://www.phoenixcontact.com/us/products/2314176>



Assembled, halogen-free round cable; connection 1: IDC/FLK socket strip (1x 50-position); connection 2: IDC/FLK socket strip (1x 50-position); cable length: 2.5 m

CABLE-FLK50/0,14/HF/ 3,0M - Cable

2314189

<https://www.phoenixcontact.com/us/products/2314189>



Assembled, halogen-free round cable; connection 1: IDC/FLK socket strip (1x 50-position); connection 2: IDC/FLK socket strip (1x 50-position); cable length: 3 m

FLKMS 50 - Interface module



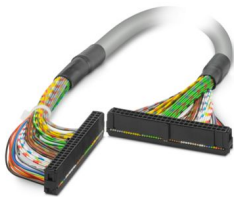
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CABLE-FLK50/0,14/HF/ 4,0M - Cable

2314192

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Assembled, halogen-free round cable; connection 1: IDC/FLK socket strip (1x 50-position); connection 2: IDC/FLK socket strip (1x 50-position); cable length: 4 m

CABLE-FLK50/0,14/HF/ 5,0M - Cable

2314202

<https://www.phoenixcontact.com/us/products/2314202>



Assembled, halogen-free round cable; connection 1: IDC/FLK socket strip (1x 50-position); connection 2: IDC/FLK socket strip (1x 50-position); cable length: 5 m

FLKMS 50 - Interface module

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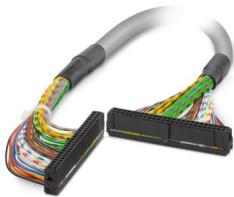
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CABLE-FLK50/0,14/HF/10,0M - Cable

2314244

<https://www.phoenixcontact.com/us/products/2314244>



Assembled, halogen-free round cable; connection 1: IDC/FLK socket strip (1x 50-position); connection 2: IDC/FLK socket strip (1x 50-position); cable length: 10 m

CABLE-FLK50-0,14-HF/... - Cable

2314257

<https://www.phoenixcontact.com/us/products/2314257>



Assembled, halogen-free round cable; connection 1: IDC/FLK socket strip (1x 50-position); connection 2: IDC/FLK socket strip (1x 50-position); cable length: variable

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Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com