

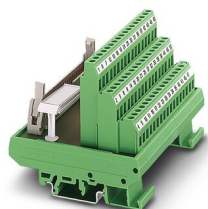
# FLKMS 50 - Interface module

2281597

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



Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



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	1 pc
Minimum order quantity	1 pc
Sales key	C422
Product key	CK2212
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

2281597

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



## Technical data

### Product properties

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

### Insulation characteristics

Insulation	Functional insulation
------------	-----------------------

### Insulation characteristics: Air clearances and creepage distances

Insulation	Functional insulation
Overvoltage category	II
Pollution degree	2

### Electrical properties

No. of channels	16 (variable)
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

# FLKMS 50 - Interface module

2281597

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



## Connection 2 (field level)

Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Number of positions	50
Conductor cross section rigid	0.2 mm² ... 4 mm²
Conductor cross section flexible	0.2 mm² ... 2.5 mm²
Conductor cross section AWG	24 ... 12

## Signaling

Status display present	No
------------------------	----

## Dimensions

### Item dimensions

Width	101.25 mm
Height	77 mm
Depth	70.97 mm

## Material specifications

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
-----------------------	----------------

## Mounting

Mounting type	DIN rail mounting
Mounting position	any

## Notes

General	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.
---------	--

# FLKMS 50 - Interface module

2281597

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



## Drawings

Circuit diagram



# FLKMS 50 - Interface module

2281597

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



## Classifications

### ECLASS

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

### ETIM

ETIM 8.0	EC002780
----------	----------

### UNSPSC

UNSPSC 21.0	39121400
-------------	----------

# FLKMS 50 - Interface module



2281597

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

## Environmental product compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

# FLKMS 50 - Interface module

2281597

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



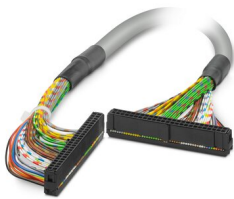
## Accessories

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

2295059

<https://www.phoenixcontact.com/us/products/2295059>

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



---

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

2295046

<https://www.phoenixcontact.com/us/products/2295046>

Round cable, with preassembly, shielded, variable cable length



# FLKMS 50 - Interface module



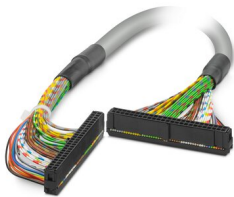
2281597

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

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

2289065

<https://www.phoenixcontact.com/us/products/2289065>



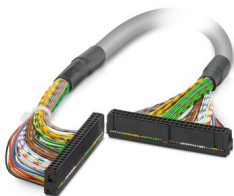
Round cable set; connection 1: IDC/FLK socket strip (1x 50-position); connection 2: IDC/FLK socket strip (1x 50-position); cable length: 0.5 m

---

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

2289078

<https://www.phoenixcontact.com/us/products/2289078>



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



# FLKMS 50 - Interface module



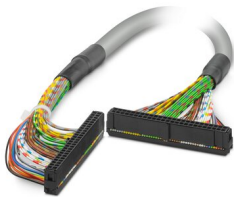
2281597

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

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

2289081

<https://www.phoenixcontact.com/us/products/2289081>



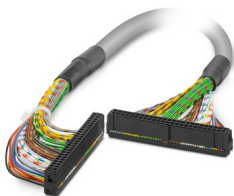
Round cable set; connection 1: IDC/FLK socket strip (1x 50-position); connection 2: IDC/FLK socket strip (1x 50-position); cable length: 1.5 m

---

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

2289094

<https://www.phoenixcontact.com/us/products/2289094>



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



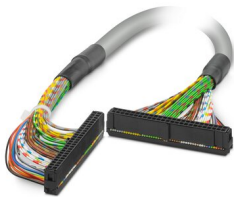
2281597

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

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

2289104

<https://www.phoenixcontact.com/us/products/2289104>



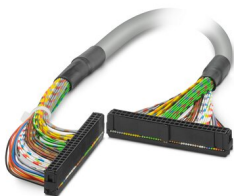
Round cable set; connection 1: IDC/FLK socket strip (1x 50-position); connection 2: IDC/FLK socket strip (1x 50-position); cable length: 2.5 m

---

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

2289117

<https://www.phoenixcontact.com/us/products/2289117>



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

2281597

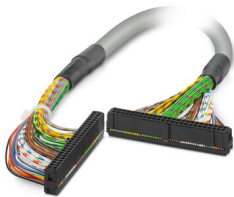
<https://www.phoenixcontact.com/us/products/2281597>



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

2289120

<https://www.phoenixcontact.com/us/products/2289120>



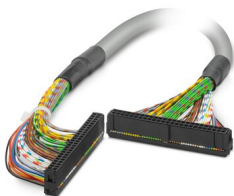
Round cable set; connection 1: IDC/FLK socket strip (1x 50-position); connection 2: IDC/FLK socket strip (1x 50-position); cable length: 3.5 m

---

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

2289133

<https://www.phoenixcontact.com/us/products/2289133>



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

# FLKMS 50 - Interface module

2281597

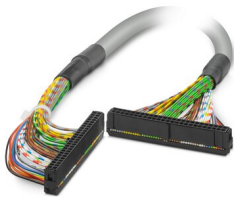
<https://www.phoenixcontact.com/us/products/2281597>



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

2289573

<https://www.phoenixcontact.com/us/products/2289573>



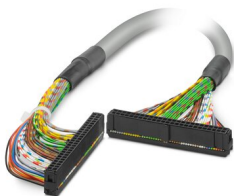
Round cable set; connection 1: IDC/FLK socket strip (1x 50-position); connection 2: IDC/FLK socket strip (1x 50-position); cable length: 4.5 m

---

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

2289586

<https://www.phoenixcontact.com/us/products/2289586>



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



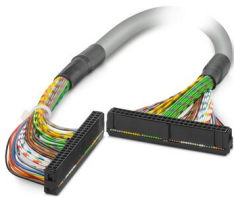
2281597

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

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

2289599

<https://www.phoenixcontact.com/us/products/2289599>



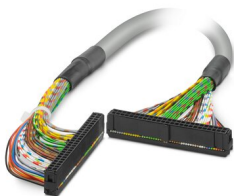
Round cable set; connection 1: IDC/FLK socket strip (1x 50-position); connection 2: IDC/FLK socket strip (1x 50-position); cable length: 5.5 m

---

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

2289609

<https://www.phoenixcontact.com/us/products/2289609>



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

2281597

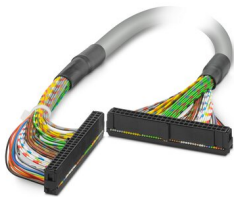
<https://www.phoenixcontact.com/us/products/2281597>



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

2289625

<https://www.phoenixcontact.com/us/products/2289625>



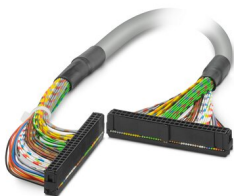
Round cable set; connection 1: IDC/FLK socket strip (1x 50-position); connection 2: IDC/FLK socket strip (1x 50-position); cable length: 7 m

---

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

2289638

<https://www.phoenixcontact.com/us/products/2289638>



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

2281597

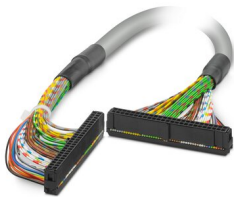
<https://www.phoenixcontact.com/us/products/2281597>



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

2289641

<https://www.phoenixcontact.com/us/products/2289641>



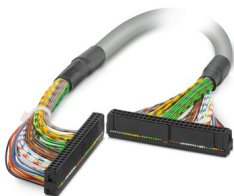
Round cable set; connection 1: IDC/FLK socket strip (1x 50-position); connection 2: IDC/FLK socket strip (1x 50-position); cable length: 8 m

---

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

2289654

<https://www.phoenixcontact.com/us/products/2289654>



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

2281597

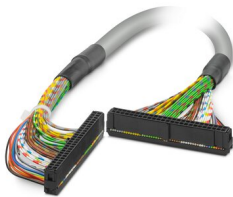
<https://www.phoenixcontact.com/us/products/2281597>



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

2289667

<https://www.phoenixcontact.com/us/products/2289667>



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

<https://www.phoenixcontact.com/us/products/2289683>



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



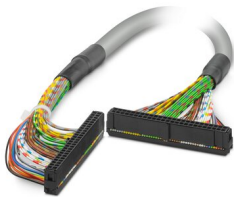
2281597

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

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

2296197

<https://www.phoenixcontact.com/us/products/2296197>



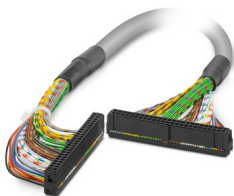
Round cable set; connection 1: IDC/FLK socket strip (1x 50-position); connection 2: IDC/FLK socket strip (1x 50-position); cable length: 1.25 m

---

## 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



2281597

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

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

2299097

<https://www.phoenixcontact.com/us/products/2299097>



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



2281597

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

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

2299110

<https://www.phoenixcontact.com/us/products/2299110>



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

2281597

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



## 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

2281597

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



## 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



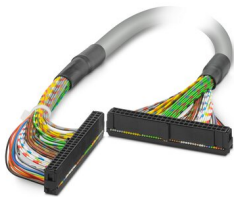
2281597

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

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

2314134

<https://www.phoenixcontact.com/us/products/2314134>



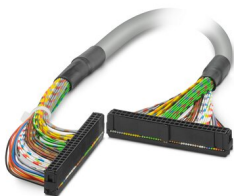
Assembled, halogen-free round cable; connection 1: IDC/FLK socket strip (1x 50-position); connection 2: IDC/FLK socket strip (1x 50-position); cable length: 0.5 m

---

## 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



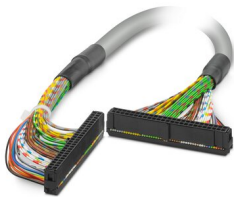
2281597

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

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

2314150

<https://www.phoenixcontact.com/us/products/2314150>



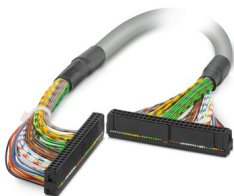
Assembled, halogen-free round cable; connection 1: IDC/FLK socket strip (1x 50-position); connection 2: IDC/FLK socket strip (1x 50-position); cable length: 1.5 m

---

## 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



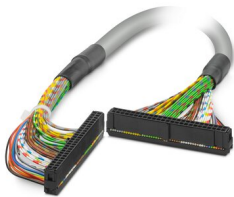
2281597

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

## 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



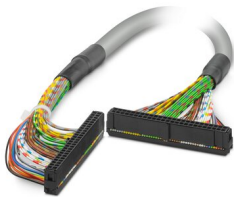
2281597

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

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

2314192

<https://www.phoenixcontact.com/us/products/2314192>



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

2281597

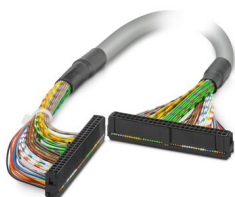
<https://www.phoenixcontact.com/us/products/2281597>



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

2314244

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



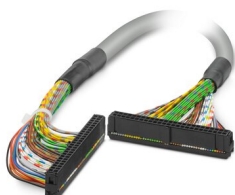
Assembled, halogen-free round cable; connection 1: IDC/FLK socket strip (1x 50-position); connection 2: IDC/FLK socket strip (1x 50-position); cable length: 10 m

---

## 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

---

Phoenix Contact 2023 © - all rights reserved  
<https://www.phoenixcontact.com>

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