

# RIF-1-V8/PT/FLK14/OUT - System connection



2905195

<https://www.phoenixcontact.com/us/products/2905195>

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V8 adapter for 8 x RIF-1 relay base, controller: PLC system cabling of output cards, connection 1: Push-in connection 4x, connection 2: IDC/FLK pin strip 1x 14-position, connection 3: Plug-in connection, number of channels: 8, control logic: plusschaltend

## Commercial data

Item number	2905195
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	C421
Product key	CK21C1
Catalog page	Page 359 (C-5-2019)
GTIN	4046356946650
Weight per piece (including packing)	86.7 g
Weight per piece (excluding packing)	86.7 g
Customs tariff number	85366990
Country of origin	DE

## Technical data

### Product properties

Product type	Interface module
Product family	RIFLINE complete
Number of positions	14
No. of channels	8
Operating mode	100% operating factor

### Insulation characteristics: Air clearances and creepage distances

Overvoltage category	II
Pollution degree	2

### Electrical properties

No. of channels	8
Nominal voltage $U_N$	30 V DC
Protective circuit	Power supply; Polarity protection diode Signal level; Freewheeling diode per channel
Max. current carrying capacity per branch	1 A (per signal path)
Max. total current of voltage supply	3 A

### Air clearances and creepage distances

Rated insulation voltage	63 V DC
Rated surge voltage	0.6 kV (Functional insulation)

### Supported controller SIEMENS S7-1500

Suitable I/O card	6ES7522-1BH00-0AB0
	6ES7522-1BH01-0AB0
	6ES7522-1BL00-0AB0
	6ES7522-1BL01-0AB0
	6ES7522-1BP00-0AA0

### Supported controller SIEMENS S7-400

Suitable I/O card	6ES7422-1BL00-0AA0
	6ES7422-1BL00-0AA0

### Supported controller ALLEN-BRADLEY ControlLogix

Suitable I/O card	1756-OB32
	1756-OB16E

### Supported controller ALLEN-BRADLEY PLC 5

Suitable I/O card	1771 OBN
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### Supported controller ALLEN-BRADLEY SLC 500

Suitable I/O card	1746 OB16
	1746 OB 32

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## Supported controller HONEYWELL Experion PKS C200

Suitable I/O card	TC-ODD 321
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## Supported controller MITSUBISHI MELSEC Q

Suitable I/O card	QY81P
	QY82P

## Supported controller SIEMENS S7-300 / ET 200 M

Suitable I/O card	CPU 313C-2DP
	CPU 314C-2DP
	CPU 314C-2PtP
	6ES7322-1BH01-0AA0
	6ES7322-1BL00-0AA0
	6ES7323-1BH01-0AA0
	6ES7323-1BL00-0AA0
	CPU 313C
	CPU 313C-2PtP

## Supported controller ABB S800 I/O

Suitable I/O card	DO810
	DO840

## Supported controller EMERSON DeltaV

Suitable I/O card	VE4002S1T1B3
	VE4002S1T2B3
	VE4002S1T2B3 Series 2
	VE4002S1T2B6

## Supported controller GE-FANUC RX3i

Suitable I/O card	IC694MDL754
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## Supported controller MITSUBISHI MELSEC L

Suitable I/O card	LY41PT1P
	LY42PT1P

## Connection data

### Supply

Connection method	Push-in connection
Stripping length	10 mm
Number of connections	4
Conductor cross section rigid	0.2 mm² ... 1.5 mm²
Conductor cross section flexible	0.2 mm² ... 1.5 mm²
Conductor cross section AWG	24 ... 16

### Controller level

Connection method	IDC/FLK pin strip
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Number of connections	1
Number of positions	14
Pitch	2.54 mm
Connection method	Plug-in connection

## Signaling

Status display	Yellow LED/per channel
Status display present	Yes
Operating voltage display	Green LED

## Dimensions

Item dimensions	
Width	130.4 mm
Height	31.9 mm
Depth	38.13 mm

## Material specifications

Housing insulation material	PA
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## Environmental and real-life conditions

Ambient conditions	
Degree of protection	IP20
Ambient temperature (operation)	-40 °C ... 60 °C
Ambient temperature (storage/transport)	-40 °C ... 70 °C

## Approvals

### UL, USA

Identification	UL 508 Recognized
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### CSA

Identification	CSA-C22.2 No. 14-13
	CSA-C22.2 No. 158-10

## Standards and regulations

Air clearances and creepage distances	
Standards/regulations	IEC 60664
	DIN EN 50178

## Mounting

Assembly instructions	Can be plugged into 8 x RIFLINE complete RIF-1 relay bases
Mounting position	any

## Notes

General	For proper use, the specifications of the installation directive (see
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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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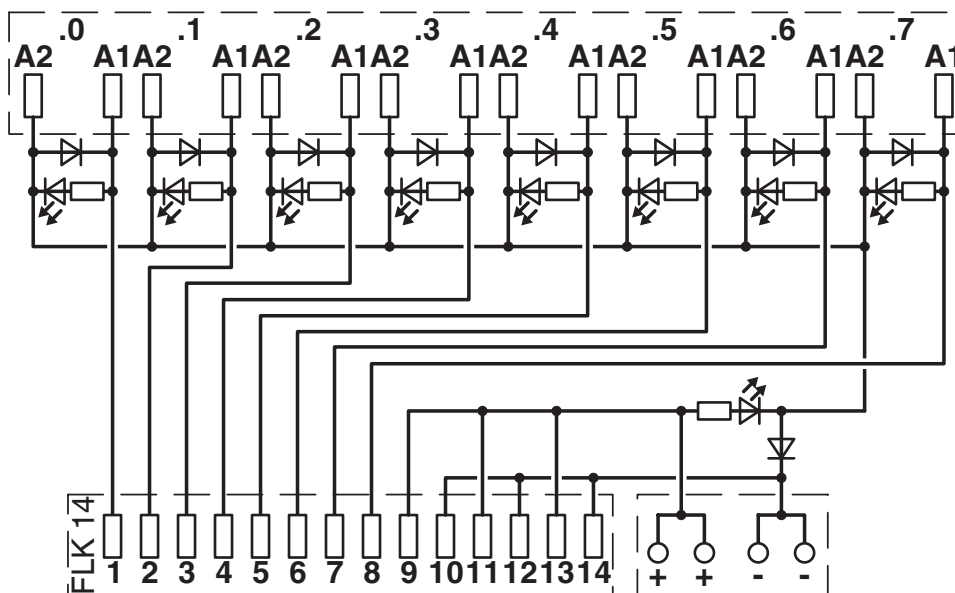


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## Drawings

Circuit diagram



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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2905195>

	<b>cUL Recognized</b>			
	Approval ID: FILE E 238705			
		Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG
		24 V	1 A	-
				Cross section mm <sup>2</sup>
				-

	<b>UL Recognized</b>			
	Approval ID: FILE E 238705			
		Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG
		24 V	1 A	-
				Cross section mm <sup>2</sup>
				-

	<b>CSA</b>
	Approval ID: 76787

<b>cULus Recognized</b>
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# RIF-1-V8/PT/FLK14/OUT - System connection



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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

REACH SVHC	Lead 7439-92-1
	Hexahydromethylphthalic anhydride
China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

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## Mandatory accessories

### RIF-1-RPT-LDP-24DC/1X21 - Relay Module

2903342

<https://www.phoenixcontact.com/us/products/2903342>



Preamsembled relay module with Push-in connection, consisting of: relay base, power contact relay, plug-in display/interference suppression module, and retaining bracket. Contact switching type: 1 changeover contact. Input voltage: 24 V DC

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### RIF-1-RPT-LDP-24DC/2X21 - Relay Module

2903334

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Preamsembled relay module with Push-in connection, consisting of: relay base, power contact relay, plug-in display/interference suppression module, and retaining bracket. Contact switching type: 2 changeover contacts. Input voltage: 24 V DC

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## RIF-1-RPT-LDP-24DC/2X21AU - Relay Module

2903330

<https://www.phoenixcontact.com/us/products/2903330>



Preassembled relay module with Push-in connection, consisting of: relay base, multi-layer contact relay, plug-in display/interference suppression module, and retaining bracket. Contact switching type: 2 changeover contacts. Input voltage: 24 V DC

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## RIF-1-RSC-LDP-24DC/1X21 - Relay Module

2903358

<https://www.phoenixcontact.com/us/products/2903358>



Preassembled relay module with screw connection, consisting of: relay base, power contact relay, plug-in display/interference suppression module, and retaining bracket. Contact switching type: 1 changeover contact. Input voltage: 24 V DC

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## RIF-1-RSC-LDP-24DC/2X21 - Relay Module

2903350

<https://www.phoenixcontact.com/us/products/2903350>



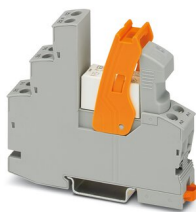
Preamsembled relay module with screw connection, consisting of: relay base, power contact relay, plug-in display/interference suppression module, and retaining bracket. Contact switching type: 2 changeover contacts. Input voltage: 24 V DC

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## RIF-1-RSC-LDP-24DC/2X21AU - Relay Module

2903346

<https://www.phoenixcontact.com/us/products/2903346>



Preamsembled relay module with screw connection, consisting of: relay base, multi-layer contact relay, plug-in display/interference suppression module, and retaining bracket. Contact switching type: 2 changeover contacts. Input voltage: 24 V DC

# RIF-1-V8/PT/FLK14/OUT - System connection



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## RIF-1-BPT/2X21 - Relay base

2900931

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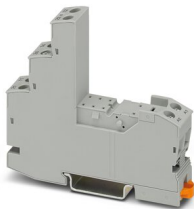
Relay base RIF-1..., for miniature power relay with 1 or 2 changeover contacts or solid-state relays of the same design, Push-in connection, plug-in option for input/interference suppression modules, for mounting on NS 35/7,5

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## RIF-1-BSC/2X21 - Relay base

2900930

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RIF-1... relay base, for miniature power relay with 1 or 2 changeover contacts or identical solid-state relays, screw connection, plug-in option for input/interference suppression modules, for mounting on NS 35/7,5

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## Accessories

# RIF-1-V8/PT/FLK14/OUT - System connection



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## FLK 14/EZ-DR/ 30/KONFEK - Cable

2295729

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Round cable set; connection 1: IDC/FLK socket strip (1x 14-position); connection 2: IDC/FLK socket strip (1x 14-position); cable length: 0.3 m

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## FLK 14/EZ-DR/ 50/KONFEK - Cable

2288901

<https://www.phoenixcontact.com/us/products/2288901>



Round cable set; connection 1: IDC/FLK socket strip (1x 14-position); connection 2: IDC/FLK socket strip (1x 14-position); cable length: 0.5 m

# RIF-1-V8/PT/FLK14/OUT - System connection



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## FLK 14/EZ-DR/ 100/KONFEK - Cable

2288914

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Round cable set; connection 1: IDC/FLK socket strip (1x 14-position); connection 2: IDC/FLK socket strip (1x 14-position); cable length: 1 m

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## FLK 14/EZ-DR/ 150/KONFEK - Cable

2288927

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Round cable set; connection 1: IDC/FLK socket strip (1x 14-position); connection 2: IDC/FLK socket strip (1x 14-position); cable length: 1.5 m

# RIF-1-V8/PT/FLK14/OUT - System connection



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## FLK 14/EZ-DR/ 200/KONFEK - Cable

2288930

<https://www.phoenixcontact.com/us/products/2288930>



Round cable set; connection 1: IDC/FLK socket strip (1x 14-position); connection 2: IDC/FLK socket strip (1x 14-position); cable length: 2 m

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## FLK 14/EZ-DR/ 250/KONFEK - Cable

2288943

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Round cable set; connection 1: IDC/FLK socket strip (1x 14-position); connection 2: IDC/FLK socket strip (1x 14-position); cable length: 2.5 m



# RIF-1-V8/PT/FLK14/OUT - System connection



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## FLK 14/EZ-DR/ 300/KONFEK - Cable

2288956

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Round cable set; connection 1: IDC/FLK socket strip (1x 14-position); connection 2: IDC/FLK socket strip (1x 14-position); cable length: 3 m

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## FLK 14/EZ-DR/ 350/KONFEK - Cable

2288969

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Round cable set; connection 1: IDC/FLK socket strip (1x 14-position); connection 2: IDC/FLK socket strip (1x 14-position); cable length: 3.5 m

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## FLK 14/EZ-DR/ 400/KONFEK - Cable

2288972

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Round cable set; connection 1: IDC/FLK socket strip (1x 14-position); connection 2: IDC/FLK socket strip (1x 14-position); cable length: 4 m

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## FLK 14/EZ-DR/ 500/KONFEK - Cable

2290834

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Round cable set; connection 1: IDC/FLK socket strip (1x 14-position); connection 2: IDC/FLK socket strip (1x 14-position); cable length: 5 m

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## FLK 14/EZ-DR/ 600/KONFEK - Cable

2290863

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Round cable set; connection 1: IDC/FLK socket strip (1x 14-position); connection 2: IDC/FLK socket strip (1x 14-position); cable length: 6 m

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## FLK 14/EZ-DR/ 800/KONFEK - Cable

2299563

<https://www.phoenixcontact.com/us/products/2299563>



Round cable set; connection 1: IDC/FLK socket strip (1x 14-position); connection 2: IDC/FLK socket strip (1x 14-position); cable length: 8 m

# RIF-1-V8/PT/FLK14/OUT - System connection



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## FLK 14/EZ-DR/1000/KONFEK - Cable

2299576

<https://www.phoenixcontact.com/us/products/2299576>



Round cable set; connection 1: IDC/FLK socket strip (1x 14-position); connection 2: IDC/FLK socket strip (1x 14-position); cable length: 10 m

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## FLK 14/EZ-DR/HF/ 50/KONFEK - Cable

2305952

<https://www.phoenixcontact.com/us/products/2305952>



Assembled, halogen-free round cable; connection 1: IDC/FLK socket strip (1x 14-position); connection 2: IDC/FLK socket strip (1x 14-position); cable length: 0.5 m

# RIF-1-V8/PT/FLK14/OUT - System connection



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## FLK 14/EZ-DR/HF/ 100/KONFEK - Cable

2305965

<https://www.phoenixcontact.com/us/products/2305965>



Assembled, halogen-free round cable; connection 1: IDC/FLK socket strip (1x 14-position); connection 2: IDC/FLK socket strip (1x 14-position); cable length: 1 m

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## FLK 14/EZ-DR/HF/ 150/KONFEK - Cable

2305978

<https://www.phoenixcontact.com/us/products/2305978>



Assembled, halogen-free round cable; connection 1: IDC/FLK socket strip (1x 14-position); connection 2: IDC/FLK socket strip (1x 14-position); cable length: 1.5 m

# RIF-1-V8/PT/FLK14/OUT - System connection



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## FLK 14/EZ-DR/HF/ 200/KONFEK - Cable

2305981

<https://www.phoenixcontact.com/us/products/2305981>



Assembled, halogen-free round cable; connection 1: IDC/FLK socket strip (1x 14-position); connection 2: IDC/FLK socket strip (1x 14-position); cable length: 2 m

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## FLK 14/EZ-DR/HF/ 250/KONFEK - Cable

2305994

<https://www.phoenixcontact.com/us/products/2305994>



Assembled, halogen-free round cable; connection 1: IDC/FLK socket strip (1x 14-position); connection 2: IDC/FLK socket strip (1x 14-position); cable length: 2.5 m

# RIF-1-V8/PT/FLK14/OUT - System connection



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## FLK 14/EZ-DR/HF/ 300/KONFEK - Cable

2304759

<https://www.phoenixcontact.com/us/products/2304759>



Assembled, halogen-free round cable; connection 1: IDC/FLK socket strip (1x 14-position); connection 2: IDC/FLK socket strip (1x 14-position); cable length: 3 m

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## FLK 14/EZ-DR/HF/ 400/KONFEK - Cable

2304762

<https://www.phoenixcontact.com/us/products/2304762>



Assembled, halogen-free round cable; connection 1: IDC/FLK socket strip (1x 14-position); connection 2: IDC/FLK socket strip (1x 14-position); cable length: 4 m

# RIF-1-V8/PT/FLK14/OUT - System connection



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## FLK 14/EZ-DR/HF/ 500/KONFEK - Cable

2304717

<https://www.phoenixcontact.com/us/products/2304717>



Assembled, halogen-free round cable; connection 1: IDC/FLK socket strip (1x 14-position); connection 2: IDC/FLK socket strip (1x 14-position); cable length: 5 m

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## FLK 14/EZ-DR/HF/ 600/KONFEK - Cable

2306003

<https://www.phoenixcontact.com/us/products/2306003>



Assembled, halogen-free round cable; connection 1: IDC/FLK socket strip (1x 14-position); connection 2: IDC/FLK socket strip (1x 14-position); cable length: 6 m



# RIF-1-V8/PT/FLK14/OUT - System connection



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## FLK 14-EZ-DR-HF/... - Cable

2314040

<https://www.phoenixcontact.com/us/products/2314040>



Assembled, halogen-free round cable; connection 1: IDC/FLK socket strip (1x 14-position); connection 2: IDC/FLK socket strip (1x 14-position); cable length: variable

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## FLK 14/EZ-DR/ 50/KONFEK/S - Cable

2296977

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Assembled shielded round cable; connection 1: IDC/FLK socket strip (1x 14-position); connection 2: IDC/FLK socket strip (1x 14-position) (The braided shield is routed to a separate cable end.); cable length: 0.5 m

# RIF-1-V8/PT/FLK14/OUT - System connection



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## FLK 14/EZ-DR/ 100/KONFEK/S - Cable

2296980

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Assembled shielded round cable; connection 1: IDC/FLK socket strip (1x 14-position); connection 2: IDC/FLK socket strip (1x 14-position) (The braided shield is routed to a separate cable end.); cable length: 1 m

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## FLK 14/EZ-DR/ 120/KONFEK/S - Cable

2299071

<https://www.phoenixcontact.com/us/products/2299071>



Assembled shielded round cable; connection 1: IDC/FLK socket strip (1x 14-position); connection 2: IDC/FLK socket strip (1x 14-position) (The braided shield is routed to a separate cable end.); cable length: 1.2 m

# RIF-1-V8/PT/FLK14/OUT - System connection



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## FLK 14/EZ-DR/ 150/KONFEK/S - Cable

2296993

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Assembled shielded round cable; connection 1: IDC/FLK socket strip (1x 14-position); connection 2: IDC/FLK socket strip (1x 14-position) (The braided shield is routed to a separate cable end.); cable length: 1.5 m

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## FLK 14/EZ-DR/ 180/KONFEK/S - Cable

2299084

<https://www.phoenixcontact.com/us/products/2299084>



Assembled shielded round cable; connection 1: IDC/FLK socket strip (1x 14-position); connection 2: IDC/FLK socket strip (1x 14-position) (The braided shield is routed to a separate cable end.); cable length: 1.8 m

# RIF-1-V8/PT/FLK14/OUT - System connection



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## FLK 14/EZ-DR/ 200/KONFEK/S - Cable

2297002

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Assembled shielded round cable; connection 1: IDC/FLK socket strip (1x 14-position); connection 2: IDC/FLK socket strip (1x 14-position) (The braided shield is routed to a separate cable end.); cable length: 2 m

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## FLK 14/EZ-DR/ 300/KONFEK/S - Cable

2299013

<https://www.phoenixcontact.com/us/products/2299013>



Assembled shielded round cable; connection 1: IDC/FLK socket strip (1x 14-position); connection 2: IDC/FLK socket strip (1x 14-position) (The braided shield is routed to a separate cable end.); cable length: 3 m

# RIF-1-V8/PT/FLK14/OUT - System connection



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## FLK 14/EZ-DR/ 400/KONFEK/S - Cable

2299026

<https://www.phoenixcontact.com/us/products/2299026>



Assembled shielded round cable; connection 1: IDC/FLK socket strip (1x 14-position); connection 2: IDC/FLK socket strip (1x 14-position) (The braided shield is routed to a separate cable end.); cable length: 4 m

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## FLK 14/EZ-DR/ 600/KONFEK/S - Cable

2299039

<https://www.phoenixcontact.com/us/products/2299039>



Assembled shielded round cable; connection 1: IDC/FLK socket strip (1x 14-position); connection 2: IDC/FLK socket strip (1x 14-position) (The braided shield is routed to a separate cable end.); cable length: 6 m

# RIF-1-V8/PT/FLK14/OUT - System connection



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## FLK 14/EZ-DR/ 800/KONFEK/S - Cable

2299042

<https://www.phoenixcontact.com/us/products/2299042>



Assembled shielded round cable; connection 1: IDC/FLK socket strip (1x 14-position); connection 2: IDC/FLK socket strip (1x 14-position) (The braided shield is routed to a separate cable end.); cable length: 8 m

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## FLK 14/EZ-DR/1000/KONFEK/S - Cable

2299055

<https://www.phoenixcontact.com/us/products/2299055>



Assembled shielded round cable; connection 1: IDC/FLK socket strip (1x 14-position); connection 2: IDC/FLK socket strip (1x 14-position) (The braided shield is routed to a separate cable end.); cable length: 10 m

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## FLK 50/4X14/EZ-DR/ 50/KONFEK - Cable

2296689

<https://www.phoenixcontact.com/us/products/2296689>



Round cable set; connection 1: IDC/FLK socket strip (1x 50-position); connection 2: IDC/FLK socket strip (4x 14-position); cable length: 0.5 m

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## FLK 50/4X14/EZ-DR/ 100/KONFEK - Cable

2296692

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Round cable set; connection 1: IDC/FLK socket strip (1x 50-position); connection 2: IDC/FLK socket strip (4x 14-position); cable length: 1 m

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## FLK 50/4X14/EZ-DR/ 150/KONFEK - Cable

2296702

<https://www.phoenixcontact.com/us/products/2296702>



Round cable set; connection 1: IDC/FLK socket strip (1x 50-position); connection 2: IDC/FLK socket strip (4x 14-position); cable length: 1.5 m

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## FLK 50/4X14/EZ-DR/ 200/KONFEK - Cable

2296715

<https://www.phoenixcontact.com/us/products/2296715>



Round cable set; connection 1: IDC/FLK socket strip (1x 50-position); connection 2: IDC/FLK socket strip (4x 14-position); cable length: 2 m



# RIF-1-V8/PT/FLK14/OUT - System connection



2905195

<https://www.phoenixcontact.com/us/products/2905195>

## FLK 50/4X14/EZ-DR/ 250/KONFEK - Cable

2305402

<https://www.phoenixcontact.com/us/products/2305402>



Round cable set; connection 1: IDC/FLK socket strip (1x 50-position); connection 2: IDC/FLK socket strip (4x 14-position); cable length: 2.5 m

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## FLK 50/4X14/EZ-DR/ 300/KONFEK - Cable

2296728

<https://www.phoenixcontact.com/us/products/2296728>



Round cable set; connection 1: IDC/FLK socket strip (1x 50-position); connection 2: IDC/FLK socket strip (4x 14-position); cable length: 3 m

# RIF-1-V8/PT/FLK14/OUT - System connection



2905195

<https://www.phoenixcontact.com/us/products/2905195>

## FLK 50/4X14/EZ-DR/ 400/KONFEK - Cable

2296731

<https://www.phoenixcontact.com/us/products/2296731>



Round cable set; connection 1: IDC/FLK socket strip (1x 50-position); connection 2: IDC/FLK socket strip (4x 14-position); cable length: 4 m

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## FLK 50/4X14/EZ-DR/ 600/KONFEK - Cable

2296744

<https://www.phoenixcontact.com/us/products/2296744>



Round cable set; connection 1: IDC/FLK socket strip (1x 50-position); connection 2: IDC/FLK socket strip (4x 14-position); cable length: 6 m

# RIF-1-V8/PT/FLK14/OUT - System connection



2905195

<https://www.phoenixcontact.com/us/products/2905195>

## FLK 50/4X14/EZ-DR/1000/KONFEK - Cable

2296773

<https://www.phoenixcontact.com/us/products/2296773>



Round cable set; connection 1: IDC/FLK socket strip (1x 50-position); connection 2: IDC/FLK socket strip (4x 14-position); cable length: 10 m

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## FLK 50-4X14-EZ-DR ... - Cable

2302405

<https://www.phoenixcontact.com/us/products/2302405>



Round cable set; connection 1: IDC/FLK socket strip (1x 50-position); connection 2: IDC/FLK socket strip (4x 14-position); cable length: variable

# RIF-1-V8/PT/FLK14/OUT - System connection



2905195

<https://www.phoenixcontact.com/us/products/2905195>

## FLK 50-4X14-EZ-DR-S ... - Cable

2302447

<https://www.phoenixcontact.com/us/products/2302447>



Assembled shielded round cable; connection 1: IDC/FLK socket strip (1x 50-position); connection 2: IDC/FLK socket strip (4x 14-position) (The braided shield is routed to four separate cable ends.); cable length: variable

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