#### 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

### Commercial data

Item number	2289081
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	C421
Product key	CK2211
Catalog page	Page 536 (C-5-2019)
GTIN	4017918057473
Weight per piece (including packing)	248 g
Weight per piece (excluding packing)	239.3 g
Customs tariff number	85444290
Country of origin	DE

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## Technical data

Product properties	
Product type	System cable
Environmental and real-life conditions	
Ambient conditions	
Degree of protection	IP00
Degree of protection (Installation location)	≥ IP54 (Installation location)
Ambient temperature (operation)	-40 °C 70 °C (fixed 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)
Supported controller SIEMENS S7-1500	
Suitable I/O card	6ES7521-1BL00-0AB0
	6ES7521-1BL10-0AA0
	6ES7522-1BL00-0AB0
	6ES7522-1BL01-0AB0
	6ES7522-1BL10-0AA0
	6ES7523-1BL00-0AA0
	6ES7531-7KF00-0AB0
	6ES7531-7LH00-0AB0
	6ES7531-7MH00-0AB0
	6ES7531-7NF00-0AB0
	6ES7531-7NF10-0AB0
	6ES7531-7PF00-0AB0
	6ES7532-5HF00-0AB0
Supported controller SIEMENS S7-300 / ET 200 M	
Suitable I/O card	CPU 313C
	CPU 313C-2DP
	CPU 313C-2PtP
	CPU 314C-2DP
	CPU 314C-2PtP
	6ES7321-1BL00-0AA0
	6ES7322-1BL00-0AA0



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	6ES7322-8BH01-0AB0
	6ES7323-1BL00-0AA0
	6ES7331-1KF01-0AB0
	6ES7331-7NF00-0AB0
	6ES7331-7NF10-0AB0
	6ES7331-7PF01-0AB0
	6ES7331-7PF11-0AB0
	6ES7332-5HF00-0AB0
	6ES7350-2AH01-0AE0
	6ES7357-4AH01-0AE0
Supported controller SIEMENS S7-400	
Suitable I/O card	6ES7421-1BL01-0AA0
	6ES7421-7BH01-0AB0
	6ES7421-7DH00-0AA0
	6ES7422-1BL00-0AA0
	6ES7422-7BL00-0AB0
	6ES7431-0HH0-0AB0
	6ES7431-1KF00-0AB0
	6ES7431-1KF10-0AB0
	6ES7431-1KF20-0AB0
	6ES7431-7KF00-0AB0
	6ES7431-7KF10-0AB0
	6ES7431-7QH00-0AB0
	6ES7432-1HF00-0AB0

#### Supported controller SCHNEIDER ELECTRIC Modicon TSX QUANTUM

Suitable I/O card	DDI 353
	DDI 841
	DDI 853
	DAI 340
	DAI 440
	DAI 453
	DDO 353
	DDM 390
	ACI 030
	ACI 040
	ATI 030
	ARI 030
	AVI 030
	ACO 020
	ACO 130
	AVO 020
	EHC 105
	EHC 202

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#### Supported controller ALLEN-BRADLEY ControlLogix

Suitable I/O card	1756-IA16I
	1756-IB16D
	1756-IB16I
	1756-IB32
	1756-IH16I
	1756-OB32
	1756-IF8
	1756-IF16
	1756-HSC
	1756-M02AE
Supported controller HONEYWELL Experion PKS C200	

# Suitable I/O card TC-IDK 161 TC-IDX 161 TC-IDX 161 TC-IDJ 161 TC-IDJ 321 TC-IDH 321 TC-IDH 161

#### Cable/line

Cable length	1.5 m
50X0.14 [PVC]	
UL AWM Style	2464/1061
Number of positions	50
Shielded	no
Cable type	50X0.14 [PVC]
Conductor type	Round cable set
Conductor structure signal line	7x 0.16 mm
AWG signal line	26
Conductor cross section	50x 0.14 mm <sup>2</sup>
Wire diameter incl. insulation	1 mm ±0.03 mm
External cable diameter	10.30 mm ±0.4 mm
Outer sheath, material	Semi-rigid PVC
External sheath, color	gray
Conductor material	Tin-plated Cu litz wires
Cable resistance	≤ 145 Ω/km (20 °C)
Insulation resistance	≥ 20 MΩ*km (20 °C)
Smallest bending radius, fixed installation	86 mm
Smallest bending radius, movable installation	161 mm
Max. bending cycles	5000 (at a radius of $\geq$ 15x outside diameter)
Halogen-free	no
	IEC 60332-1-2 (raw cable)

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Flame resistance	VDE 0842, Part 332-1-2 (raw cable)
	IEC 60332-3-22 (raw cable)
	UL VW-1
	CSA FT-1
Resistance to oil	can withstand occasional splashes (raw cable)
IDC/FLK50 (1)	IDC/FLK50 (1) = black
IDC/FLK50 (2)	IDC/FLK50 (2) = brown
IDC/FLK50 (3)	IDC/FLK50 (3) = red
IDC/FLK50 (4)	IDC/FLK50 (4) = orange
IDC/FLK50 (5)	IDC/FLK50 (5) = yellow
IDC/FLK50 (6)	IDC/FLK50 (6) = green
IDC/FLK50 (7)	IDC/FLK50 (7) = blue
IDC/FLK50 (8)	IDC/FLK50 (8) = violet
IDC/FLK50 (9)	IDC/FLK50 (9) = gray
IDC/FLK50 (10)	IDC/FLK50 (10) = white
IDC/FLK50 (11)	IDC/FLK50 (11) = white-black
IDC/FLK50 (12)	IDC/FLK50 (12) = white-brown
IDC/FLK50 (13)	IDC/FLK50 (13) = white-red
IDC/FLK50 (14)	IDC/FLK50 (14) = white-orange
IDC/FLK50 (15)	IDC/FLK50 (15) = white-yellow
IDC/FLK50 (16)	IDC/FLK50 (16) = white-green
IDC/FLK50 (17)	IDC/FLK50 (17) = white-blue
IDC/FLK50 (18)	IDC/FLK50 (18) = white-violet
IDC/FLK50 (19)	IDC/FLK50 (19) = white-gray
IDC/FLK50 (20)	IDC/FLK50 (20) = brown-black
IDC/FLK50 (21)	IDC/FLK50 (21) = brown-red
IDC/FLK50 (22)	IDC/FLK50 (22) = brown-orange
IDC/FLK50 (23)	IDC/FLK50 (23) = brown-yellow
IDC/FLK50 (24)	IDC/FLK50 (24) = brown-green
IDC/FLK50 (25)	IDC/FLK50 (25) = brown-blue
IDC/FLK50 (26)	IDC/FLK50 (26) = brown-violet
IDC/FLK50 (27)	IDC/FLK50 (27) = brown-gray
IDC/FLK50 (28)	IDC/FLK50 (28) = brown-white
IDC/FLK50 (29)	IDC/FLK50 (29) = green-black
IDC/FLK50 (30)	IDC/FLK50 (30) = green-brown
IDC/FLK50 (31)	IDC/FLK50 (31) = green-red
IDC/FLK50 (32)	IDC/FLK50 (32) = green-orange
IDC/FLK50 (33)	IDC/FLK50 (33) = green-blue
IDC/FLK50 (34)	IDC/FLK50 (34) = green-violet
IDC/FLK50 (35)	IDC/FLK50 (35) = green-gray
IDC/FLK50 (36)	IDC/FLK50 (36) = green-white
IDC/FLK50 (37)	IDC/FLK50 (37) = yellow-black
IDC/FLK50 (38)	IDC/FLK50 (38) = yellow-brown
IDC/FLK50 (39)	IDC/FLK50 (39) = yellow-red



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IDC/FLK50 (40)	IDC/FLK50 (40) = yellow-orange
IDC/FLK50 (41)	IDC/FLK50 (41) = yellow-blue
IDC/FLK50 (42)	IDC/FLK50 (42) = yellow-violet
IDC/FLK50 (43)	IDC/FLK50 (43) = yellow-gray
IDC/FLK50 (44)	IDC/FLK50 (44) = yellow-white
IDC/FLK50 (45)	IDC/FLK50 (45) = gray-black
IDC/FLK50 (46)	IDC/FLK50 (46) = gray-brown
IDC/FLK50 (47)	IDC/FLK50 (47) = gray-red
IDC/FLK50 (48)	IDC/FLK50 (48) = gray-orange
IDC/FLK50 (49)	IDC/FLK50 (49) = gray-yellow
IDC/FLK50 (50)	IDC/FLK50 (50) = gray-green
Cable type	Cable for one module

#### Connection data

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

#### Connection 2

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

#### 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



Maximum permissible current per path in uncoiled state



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## Approvals

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ERC	EAC Approval ID: RU*-DE.HB*35.B00385				
	<b>UL Listed</b> Approval ID: FILE E 238705				
		Nominal voltage U <sub>N</sub>	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
		125 V	1 A	-	-
•	<b>CUL Listed</b> Approval ID: FILE E 238705				
		Nominal voltage U <sub>N</sub>	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
		125 V	1 A	-	-

cULus Listed



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## Classifications

#### ECLASS

ECLASS-11.0	27242220
ECLASS-12.0	27242220
ECLASS-13.0	27242220

#### ETIM

	ETIM 9.0	EC000237			
UNSPSC					
	UNSPSC 21.0	26121600			

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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

KME - Cable marker carrier

0807083 https://www.phoenixcontact.com/us/products/0807083



Cable marker carrier, white, unlabeled, mounting type: Assembly with cable ties, cable diameter: > 5 mm, lettering field size: 20 x 8 mm

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