

CABLE-FLK50/0,14/HF/ 8,0M - Cable



2314231
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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: 8 m

Commercial data

Item number	2314231
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	C421
Product key	CK2133
Catalog page	Page 565 (C-5-2019)
GTIN	4046356099806
Weight per piece (including packing)	1,261 g
Weight per piece (excluding packing)	1,261 g
Customs tariff number	85444290
Country of origin	DE

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Technical data

Product properties

Product type	System cable
Insulation characteristics	
Insulation	Functional insulation
Insulation characteristics: Air clearances and creepage distances	
Insulation	Functional insulation
Overvoltage category	II
Pollution degree	2

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)	≤ 25 V AC
Operating voltage (DC)	≤ 60 V DC
Nominal operating mode	100% operating factor
Current (Per path, 50°C)	≤ 1 A
Current (Per path, 70°C)	≤ 0.6 A

Air clearances and creepage distances

Rated insulation voltage	63 V
Rated surge voltage	0.6 kV

Supported controller SIEMENS S7-300 / ET 200 M

Suitable I/O card	CPU 313C-2DP
	CPU 314C-2PtP
	6ES7321-1BL00-0AA0
	6ES7322-1BL00-0AA0
	6ES7323-1BL00-0AA0
	6ES7331-7NF00-0AB0
	6ES7331-7PF01-0AB0
	6ES7331-7PF11-0AB0
	6ES7350-2AH01-0AE0
	6ES7357-4AH01-0AE0
	CPU 314C-2DP

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	6ES7332-5HF00-0AB0
	6ES7331-7NF10-0AB0
	6ES7331-1KF01-0AB0
	CPU 313C
	CPU 313C-2PiP

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 353
	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

Supported controller ALLEN-BRADLEY ControlLogix

Suitable I/O card	1756-IA16I
	1756-IB16D

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	1756-IB16I
	1756-IB32
	1756-IH16I
	1756-OB32
	1756-IF8
	1756-IF16
	1756-HSC
	1756-M02AE

Supported controller ALLEN-BRADLEY PLC 5

Suitable I/O card	1771 IBN
	1771 OBN

Supported controller HONEYWELL Experion PKS C200

Suitable I/O card	TC-IDK 161
	TC-IDX 161
	TC-IDJ 161
	TC-IDD 321
	TC-ODD 321
	TC-IAH 161

Supported controller ALLEN-BRADLEY SLC 500

Suitable I/O card	1746 OA16
	1746 OW16

Cable/line

Cable length	8 m
Number of positions	50
Shielded	no
Conductor type	Assembled, halogen-free round cable
Conductor structure signal line	7x 0.16 mm
AWG signal line	26
Conductor cross section	50x 0.14 mm ²
Wire diameter incl. insulation	1 mm ±0.03 mm
External cable diameter	10.30 mm ±0.4 mm
Outer sheath, material	halogen-free (type 2)
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 ≥ 15x outside diameter)
Halogen-free	yes
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)
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
IDC/FLK50 (40)	IDC/FLK50 (40) = yellow-orange
IDC/FLK50 (41)	IDC/FLK50 (41) = yellow-blue

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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

Field level

Connection in acc. with standard	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

Controller level

Connection in acc. with standard	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

Standards and regulations

Air clearances and creepage distances

Standards/regulations	DIN EN 50178
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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.
General	Only the cable is halogen-free for this product.

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