

2906951

<https://www.phoenixcontact.com/us/products/2906951>

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.



Assembled shielded round cable; controller: Emerson Delta V S-Series; connection 1: IDC/FLK socket strip (2x 24-position); connection 2: IDC/FLK socket strip (2x 24-position); cable length: 1 m

Commercial data

Item number	2906951
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	C421
Product key	CK221K
GTIN	4055626144849
Weight per piece (including packing)	202.5 g
Weight per piece (excluding packing)	202.5 g
Customs tariff number	85444290
Country of origin	DE

CABLE-2FLK24/2FLK24/DV/ 1,0M/S - Cable



2906951

<https://www.phoenixcontact.com/us/products/2906951>

Technical data

Product properties

Product type	System cable
Data management status	
Article revision	02

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 EMERSON DeltaV

Suitable I/O card	SE4053S2B11 SE4083S2B11
-------------------	----------------------------

Cable/line

Cable length	1 m
--------------	-----

50X0.14 [PVC]

UL AWM Style	2464/1061
Number of positions	50
Shielded	yes
Cable type	50X0.14 [PVC]
Conductor type	Assembled shielded 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	11.00 mm ±0.3 mm
Outer sheath, material	Semi-rigid PVC
External sheath, color	gray

CABLE-2FLK24/2FLK24/DV/ 1,0M/S - Cable



2906951

<https://www.phoenixcontact.com/us/products/2906951>

Conductor material	Tin-plated Cu litz wires
Cable resistance	$\leq 145 \Omega/\text{km}$ (at 20 °C)
Insulation resistance	$\geq 20 \text{ M}\Omega \cdot \text{km}$ (20 °C)
Smallest bending radius, fixed installation	114 mm
Smallest bending radius, movable installation	205 mm
Dynamic load capacity (bending)	Max. bending cycles: 5000 (at a radius of $\geq 18x$ outside diameter)
Halogen-free	no
Flame resistance	IEC 60332-1-2 (raw cable)
	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)
Cable type	Cable for one module

Connection data

Connection 1

Connection in acc. with standard	based on IEC 60603-13
Connection method	IDC/FLK socket strip
Number of connections	2
Number of positions	24
Conductor cross section AWG	26
Insertion/withdrawal cycles	> 50
Pitch	2.54 mm

Connection 2

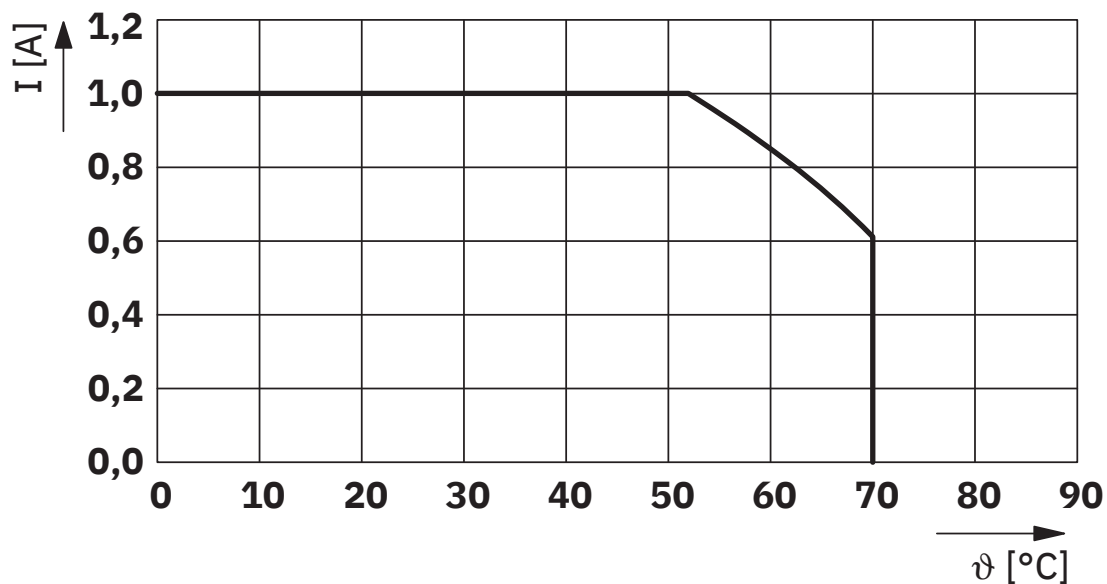
Connection in acc. with standard	based on IEC 60603-13
Connection method	IDC/FLK socket strip
Number of connections	2
Number of positions	24
Insertion/withdrawal cycles	> 50
Pitch	2.54 mm

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.
--------------------	--

Drawings

Diagram



Maximum permissible current per path in uncoiled state

CABLE-2FLK24/2FLK24/DV/ 1,0M/S - Cable



2906951

<https://www.phoenixcontact.com/us/products/2906951>

Connection diagram

FLK24 X1 A	FLK24 X3 B	FLK24 X2 C	FLK24 X4 D	Conductor color
PIN 1	PIN 1			black
PIN 2	PIN 2			brown
PIN 3	PIN 3			red
PIN 4	PIN 4			orange
PIN 5	PIN 5			yellow
PIN 6	PIN 6			green
PIN 7	PIN 7			blue
PIN 8	PIN 8			violet
PIN 9	PIN 9			gray
PIN 10	PIN 10			white
PIN 11	PIN 11			white-black
PIN 12	PIN 12			white-brown
PIN 13	PIN 13			white-red
PIN 14	PIN 14			white-orange
PIN 15	PIN 15			white-yellow
PIN 16	PIN 16			white-green
PIN 17	PIN 17			white-blue
PIN 18	PIN 18			white-violet
PIN 19	PIN 19			white-gray
PIN 20	PIN 20			brown-black
PIN 21	PIN 21			brown-red
PIN 22	PIN 22			brown-orange
PIN 23	PIN 23			brown-yellow
PIN 24	PIN 24			brown-green
		PIN 1	PIN 1	brown-blue
		PIN 2	PIN 2	brown-violet
		PIN 3	PIN 3	brown-gray
		PIN 4	PIN 4	brown-white
		PIN 5	PIN 5	green-black
		PIN 6	PIN 6	green-brown
		PIN 7	PIN 7	green-red
		PIN 8	PIN 8	green-orange
		PIN 9	PIN 9	green-blue
		PIN 10	PIN 10	green-violet
		PIN 11	PIN 11	green-gray
		PIN 12	PIN 12	green-white
		PIN 13	PIN 13	yellow-black
		PIN 14	PIN 14	yellow-brown
		PIN 15	PIN 15	yellow-red
		PIN 16	PIN 16	yellow-orange
		PIN 17	PIN 17	yellow-blue
		PIN 18	PIN 18	yellow-violet
		PIN 19	PIN 19	yellow-gray
		PIN 20	PIN 20	yellow-white
		PIN 21	PIN 21	gray-black
		PIN 22	PIN 22	gray-brown
		PIN 23	PIN 23	gray-red
		PIN 24	PIN 24	gray-orange

CABLE-2FLK24/2FLK24/DV/ 1,0M/S - Cable



2906951

<https://www.phoenixcontact.com/us/products/2906951>

Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2906951>

	EAC Approval ID: RU*-DE.HB*35.B00385
---	--

	UL Listed			
	Approval ID: E238705			
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
	125 V	1 A	-	-

	cUL Listed			
	Approval ID: E238705			
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
	125 V	1 A	-	-

cULus Listed

CABLE-2FLK24/2FLK24/DV/ 1,0M/S - Cable



2906951

<https://www.phoenixcontact.com/us/products/2906951>

Classifications

ECLASS

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

ETIM

ETIM 9.0	EC000237
----------	----------

UNSPSC

UNSPSC 21.0	26121600
-------------	----------

CABLE-2FLK24/2FLK24/DV/ 1,0M/S - Cable



2906951
<https://www.phoenixcontact.com/us/products/2906951>

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%

Phoenix Contact 2024 © - 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