CABLE-D50SUB/B/B/100/KONFEK/S - Cable

2305541

https://www.phoenixcontact.com/us/products/2305541

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; connection 1: D-SUB socket strip (1x 50-position); connection 2: D-SUB socket strip (1x 50-position); cable length: 1 m

Commercial data

Item number	2305541
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	C421
Product key	DK2252
GTIN	4046356011884
Weight per piece (including packing)	359 g
Weight per piece (excluding packing)	354.6 g
Customs tariff number	85444290
Country of origin	DE

Technical data

Product properties

Product type	System cable

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
Degree of protection (Installation location)	≥ IP54 (Installation location)
Ambient temperature (operation) (fixed installation)	-40 °C ... 70 °C (fixed installation)
Ambient temperature (operation) (flexible 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)	≤ 2 A (Uncoiled, see derating)

Cable/line

Cable length	1 m

50X0.25 [PVC]

UL AWM Style	2464/1061
Number of positions	50
Shielded	yes
Cable type	50X0.25 [PVC]
Conductor type	Assembled shielded round cable
Conductor structure signal line	14x 0.15 mm
AWG signal line	24
Conductor cross-section	50x 0.25 mm²
Wire diameter incl. insulation	1.2 mm ±0.05 mm
External cable diameter	12.40 mm ±0.5 mm
Outer sheath, material	Semi-rigid PVC
External sheath, color	gray
Conductor material	Bare Cu litz wires
Cable resistance	≤ 80 Ω/km (at 20 °C)
Insulation resistance	≥ 20 MΩ*km (at 20 °C)
Smallest bending radius, fixed installation	106 mm
Smallest bending radius, movable installation	200 mm
Halogen-free	no
	IEC 60332-1-2 (raw cable)

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)

Color code: Single-core wire

white	D-SUB50 (1) = D-SUB50 (1)
brown	D-SUB50 (2) = D-SUB50 (2)
green	D-SUB50 (3) = D-SUB50 (3)
yellow	D-SUB50 (4) = D-SUB50 (4)
gray	D-SUB50 (5) = D-SUB50 (5)
pink	D-SUB50 (6) = D-SUB50 (6)
blue	D-SUB50 (7) = D-SUB50 (7)
red	D-SUB50 (8) = D-SUB50 (8)
black	D-SUB50 (9) = D-SUB50 (9)
violet	D-SUB50 (10) = D-SUB50 (10)
gray-pink	D-SUB50 (11) = D-SUB50 (11)
red-blue	D-SUB50 (12) = D-SUB50 (12)
white-green	D-SUB50 (13) = D-SUB50 (13)
brown-green	D-SUB50 (14) = D-SUB50 (14)
white-yellow	D-SUB50 (15) = D-SUB50 (15)
yellow-brown	D-SUB50 (16) = D-SUB50 (16)
white-gray	D-SUB50 (17) = D-SUB50 (17)
gray-brown	D-SUB50 (18) = D-SUB50 (18)
white-pink	D-SUB50 (19) = D-SUB50 (19)
pink-brown	D-SUB50 (20) = D-SUB50 (20)
white-blue	D-SUB50 (21) = D-SUB50 (21)
brown-blue	D-SUB50 (22) = D-SUB50 (22)
white-red	D-SUB50 (23) = D-SUB50 (23)
brown-red	D-SUB50 (24) = D-SUB50 (24)
white-black	D-SUB50 (25) = D-SUB50 (25)
brown-black	D-SUB50 (26) = D-SUB50 (26)
gray-green	D-SUB50 (27) = D-SUB50 (27)
yellow-gray	D-SUB50 (28) = D-SUB50 (28)
pink-green	D-SUB50 (29) = D-SUB50 (29)
yellow-pink	D-SUB50 (30) = D-SUB50 (30)
green-blue	D-SUB50 (31) = D-SUB50 (31)
yellow-blue	D-SUB50 (32) = D-SUB50 (32)
green-red	D-SUB50 (33) = D-SUB50 (33)
yellow-red	D-SUB50 (34) = D-SUB50 (34)
green-black	D-SUB50 (35) = D-SUB50 (35)
yellow-black	D-SUB50 (36) = D-SUB50 (36)
gray-blue	D-SUB50 (37) = D-SUB50 (37)

pink-blue	D-SUB50 (38) = D-SUB50 (38)
gray-red	D-SUB50 (39) = D-SUB50 (39)
pink-red	D-SUB50 (40) = D-SUB50 (40)
gray-black	D-SUB50 (41) = D-SUB50 (41)
pink-black	D-SUB50 (42) = D-SUB50 (42)
blue-black	D-SUB50 (43) = D-SUB50 (43)
red-black	D-SUB50 (44) = D-SUB50 (44)
white-brown-black	D-SUB50 (45) = D-SUB50 (45)
yellow-green-black	D-SUB50 (46) = D-SUB50 (46)
gray-pink-black	D-SUB50 (47) = D-SUB50 (47)
blue-red-black	D-SUB50 (48) = D-SUB50 (48)
white-green-black	D-SUB50 (49) = D-SUB50 (49)
green-brown-black	D-SUB50 (50) = D-SUB50 (50)

Connection data

Connection 1

Connection in acc. with standard	IEC 60807-2
	DIN 41652
Connection method	D-SUB socket strip
Screw thread	UNC 4-40
Number of connections	1
Number of positions	50
Tightening torque	0.2 Nm
Insertion/withdrawal cycles	> 200
Pitch	2.77 mm

Connection 2

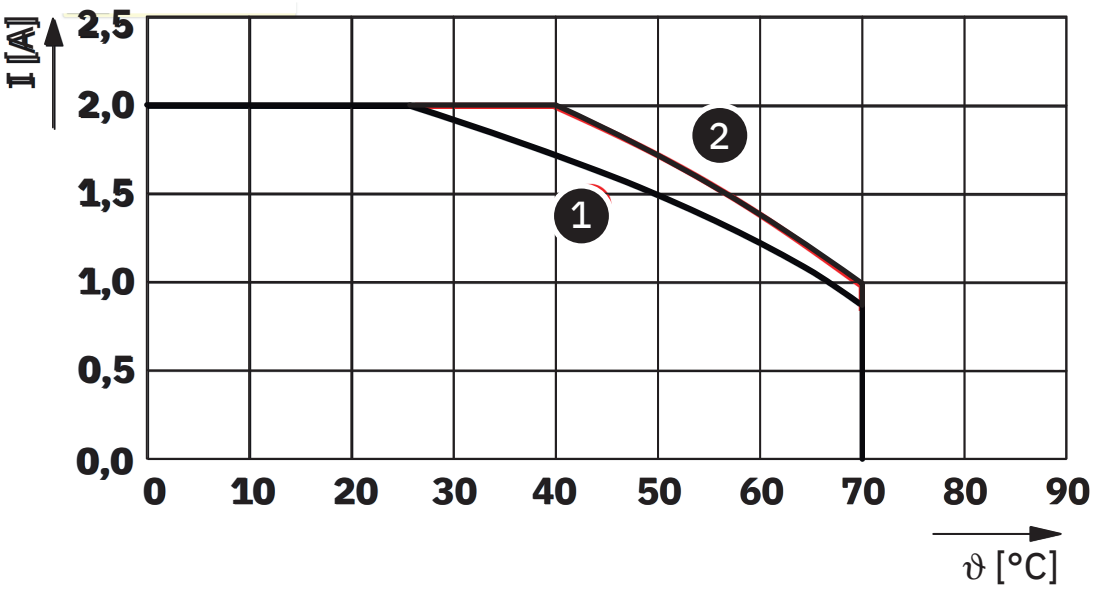
Connection in acc. with standard	IEC 60807-2
	DIN 41652
Connection method	D-SUB socket strip
Screw thread	UNC 4-40
Number of connections	1
Number of positions	50
Tightening torque	0.2 Nm
Insertion/withdrawal cycles	> 200
Pitch	2.77 mm

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



(1) Derating: standard

(2) Derating: in accordance with UL

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2305541

CSA
Approval ID: 70002966

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine				
	125 V	1 A	-	-

cUL Recognized
Approval ID: E238705

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine				
	125 V	2 A	-	-

UL Recognized
Approval ID: E238705

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine				
	125 V	2 A	-	-

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

cULus Listed
Approval ID: E238705 V22/S5

Classifications

ECLASS

ECLASS-13.0	27242220
ECLASS-15.0	27242220

ETIM

ETIM 10.0	EC000237

UNSPSC

UNSPSC 21.0	26121600

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(a)-I

China RoHS

Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

EU REACH SVHC

REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
SCIP	12304b93-2fd7-4f07-befc-85acdd38b3b4

EF3.1 Climate Change

CO2e kg	7.614 kg CO2e

Phoenix Contact 2026 © - 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