

# CABLE-D-50SUB-M-OE-0,25-S/... - Cable



2900913

<https://www.phoenixcontact.com/us/products/2900913>

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Assembled shielded round cable; connection 1: Single wires (50-position) (The wires are marked and fitted with ferrules. The braided shield is routed to a separate cable end.); connection 2: D-SUB pin strip (1x 50-position); cable length: variable

## Your advantages

- Individual wire marking: 1, 2, 3, 4, etc.
- Individual wires fitted with ferrules
- Connector in accordance with IEC 60807-2/DIN 41652
- D-SUB socket or pin strip at one end
- Open end at one end
- Shield connection: H05V-K 1 mm<sup>2</sup> cable, black, length: 0.5 m
- Screw connection: 2 UNC 4-40 screws
- 1:1 connection

## Commercial data

Item number	2900913
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	C492
Product key	DK2252
GTIN	4046356548779
Customs tariff number	85444290
Country of origin	DE

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## Technical data

### Product properties

Product type	System cable
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### 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	variable
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#### 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 mm <sup>2</sup>
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)

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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)

Color code: Single-core wire

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

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

## Connection data

### Connection 1

Connection method	Single wires
Stripping length (Sheath)	≈  mm
Number of positions	50
Note	The wires are marked and fitted with ferrules. The braided shield is routed to a separate cable end.

### Connection 2

Connection in acc. with standard	IEC 60807-2
	DIN 41652
Connection method	D-SUB pin 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.
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## Drawings

Schematic diagram



Diagram



- (1) Derating: standard
- (2) Derating: in accordance with UL

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2900913>

 <b>CSA</b> Approval ID: 70002966				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
keine				
	125 V	1 A	-	-

 <b>cUL Recognized</b> Approval ID: E238705				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
keine				
	125 V	2 A	-	-

 <b>UL Recognized</b> Approval ID: E238705				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
keine				
	125 V	2 A	-	-

 <b>EAC</b> Approval ID: RU*-DE.HB*35.B00385				
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 <b>cULus Listed</b> Approval ID: E238705 V22/S5				
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## Classifications

### ECLASS

ECLASS-13.0	27242220
ECLASS-15.0	27242220

### ETIM

ETIM 10.0	EC000237
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### UNSPSC

UNSPSC 21.0	26121600
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(a)

### 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)
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