CABLE D-SUB-B-B-S/.../.../... - Cable

2302421

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The figure shows a 50-pos. version

Shielded round cable, assembled with two D-SUB female strips (9-, 15-, 25-, 37-, or 50-pos.), variable cable length

Commercial data

Item number	2302421
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Product key	DK2252
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	variable

9X0.25 [PVC]

UL AWM Style	2464/1061
Number of positions	9
Shielded	yes
Cable type	9X0.25 [PVC]
Conductor type	Assembled shielded round cable
Conductor structure signal line	14x 0.15 mm
AWG signal line	24
Conductor cross-section	9x 0.25 mm²
Wire diameter incl. insulation	1.2 mm ±0.05 mm
External cable diameter	6.70 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 (20 °C)
Insulation resistance	≥ 20 MΩ*km (20 °C)
Nominal voltage, cable	300 V AC/DC
Smallest bending radius, fixed installation	58 mm
Smallest bending radius, movable installation	108 mm
Dynamic load capacity (bending)	Max. bending cycles: 5000 (at a radius of ≥ 15x 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)

15X0.25 [PVC]

UL AWM Style	2464/1061
Number of positions	15
Shielded	yes
Cable type	15X0.25 [PVC]
Conductor type	Assembled shielded round cable
Conductor structure signal line	14x 0.15 mm
AWG signal line	24
Conductor cross-section	15x 0.25 mm²
Wire diameter incl. insulation	1.2 mm ±0.05 mm
External cable diameter	7.90 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	67 mm
Smallest bending radius, movable installation	126 mm
Dynamic load capacity (bending)	Max. bending cycles: 5000 (at a radius of ≥ 15x 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)

25X0.25 [PVC]

UL AWM Style	2464/1061
Number of positions	25
Shielded	yes
Cable type	25X0.25 [PVC]
Conductor type	Assembled shielded round cable
Conductor structure signal line	14x 0.15 mm
AWG signal line	24
Conductor cross-section	25x 0.25 mm²

Wire diameter incl. insulation	1.2 mm ±0.05 mm
External cable diameter	9.80 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	82 mm
Smallest bending radius, movable installation	155 mm
Dynamic load capacity (bending)	Max. bending cycles: 5000 (at a radius of ≥ 15x 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)

37X0.25 [PVC]

UL AWM Style	2464/1061
Number of positions	37
Shielded	yes
Cable type	37X0.25 [PVC]
Conductor type	Assembled shielded round cable
Conductor structure signal line	14x 0.15 mm
AWG signal line	24
Conductor cross-section	37x 0.25 mm²
Wire diameter incl. insulation	1.2 mm ±0.05 mm
External cable diameter	10.80 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	90 mm
Smallest bending radius, movable installation	170 mm
Dynamic load capacity (bending)	Max. bending cycles: 5000 (at a radius of ≥ 15x 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)

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
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

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 (9-position)	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 (15-position)	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 (25-position)	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 (37-position)	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 (50-position)	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	9
	15
	25
	37
	50
Tightening torque	0.2 Nm
Insertion/withdrawal cycles	> 200

Field level

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	9
	15
	25
	37
	50
Tightening torque	0.2 Nm
Insertion/withdrawal cycles	> 200

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.

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/pc/products/2302421

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	27440322

ETIM

ETIM 10.0	EC001132

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	a87e3dcc-ccd6-4b54-a604-7003e85f2f36

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