2799490

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D-SUB connector, 9-pos. female connector, two 35° cable entries, bus system: CAN, SUCONET K1, K2 (MOELLER), S-BUS (Saia), J-BUS (Merlin Gerin), pin assignment: 2, 3, 4, 5, 7, 9 to two screw connection terminal blocks

Product description

Two cable infeeds are often required on the D-SUB plugs used in order to build fieldbus systems with RS-485 interfaces. The SUBCON-PLUS plugs range fulfills this requirement and routes the connection to screw terminal blocks – however, duplicated – for two cables. This means clarity during wiring and it simplifies every startup. These plugs are of course also shielded against EMC influences with a metallized housing. In addition, by placing the connection block in either the upper or lower shell, it is possible to select the cable infeed on site from the right or left.

Your advantages

- · Separate terminal blocks for each cable
- · Easy assembly thanks to knurled screws
- Can be used universally
- · Assembly under field conditions
- High level of EMC
- · Flexibility in terms of cable entry selection
- · High transmission speed
- Change to the D-SUB orientation through a reversible connection block

Commercial data

Item number	2799490
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DNC
Product key	DNC521
Catalog page	Page 450 (C-6-2019)
GTIN	4017918156305
Weight per piece (including packing)	75.4 g
Weight per piece (excluding packing)	55.2 g
Customs tariff number	85366990
Country of origin	DE

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Technical data

Notes

Utilization restriction	
CCCex note	Use in potentially explosive areas is not permitted in China.

Product properties

Product type	Data plug
MTTF	6706 Years (SN 29500 standard, temperature 25°C, operating cycle 21%)
	1817 Years (SN 29500 standard, temperature 40°C, operating cycle 34.25%)
	155 Years (SN 29500 standard, temperature 40°C, operating cycle 100%)
Pin assignment	2, 3, 4, 5, 7, 9 on two terminal blocks

Electrical properties

Nominal voltage U _N	50 V DC
Nominal current I _N	100 mA
Transmission medium	Copper

Connection data

D-SUB connection		
Connection method	D-SUB socket	
PCB connection		
Connection method	Screw connection	
Stripping length	5 mm	
Conductor cross section, rigid min.	0.14 mm²	
Conductor cross section, rigid max.	1.5 mm ²	
Conductor cross section flexible min.	0.14 mm ²	
Conductor cross section flexible max.	1 mm ²	
Single-wire/terminal point, rigid AWG min.	26	
Single-wire/terminal point, rigid AWG max.	16	
Min. AWG conductor cross section, flexible	26	
Max. AWG conductor cross section, flexible	18	

Interfaces

Bus system	PROFIBUS DP
Signal	RS-485

Dimensions



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Width	16 mm
Height	44 mm
Length	60 mm
aterial specifications	
Material Housing	ABS, metal-plated
able/line	
External cable diameter ()	6 mm 10 mm (Incoming bus line)
echanical properties	
Mechanical data	
Mechanical data Insertion/withdrawal cycles nvironmental and real-life conditions	> 200
Insertion/withdrawal cycles nvironmental and real-life conditions Ambient conditions	> 200 IP40
Insertion/withdrawal cycles nvironmental and real-life conditions Ambient conditions Degree of protection	
Insertion/withdrawal cycles nvironmental and real-life conditions Ambient conditions Degree of protection Ambient temperature (operation)	IP40
Insertion/withdrawal cycles nvironmental and real-life conditions Ambient conditions Degree of protection	IP40 -20 °C 75 °C -25 °C 80 °C
Insertion/withdrawal cycles Arvironmental and real-life conditions Ambient conditions Degree of protection Ambient temperature (operation) Ambient temperature (storage/transport)	IP40-20 °C 75 °C-25 °C 80 °C \leq 5000 m (For restrictions, see the manufacturer's declaration for
Insertion/withdrawal cycles nvironmental and real-life conditions Ambient conditions Degree of protection Ambient temperature (operation) Ambient temperature (storage/transport) Altitude	IP40-20 °C 75 °C-25 °C 80 °C \leq 5000 m (For restrictions, see the manufacturer's declaration for altitude operation)
Insertion/withdrawal cycles nvironmental and real-life conditions Ambient conditions Degree of protection Ambient temperature (operation) Ambient temperature (storage/transport) Altitude Permissible humidity (operation) Permissible humidity (storage/transport) pprovals	IP40-20 °C 75 °C-25 °C 80 °C \leq 5000 m (For restrictions, see the manufacturer's declaration for altitude operation)10 % 95 % (non-condensing)
Insertion/withdrawal cycles nvironmental and real-life conditions Ambient conditions Degree of protection Ambient temperature (operation) Ambient temperature (storage/transport) Altitude Permissible humidity (operation) Permissible humidity (storage/transport)	IP40-20 °C 75 °C-25 °C 80 °C \leq 5000 m (For restrictions, see the manufacturer's declaration for altitude operation)10 % 95 % (non-condensing)
Insertion/withdrawal cycles Invironmental and real-life conditions Ambient conditions Degree of protection Ambient temperature (operation) Ambient temperature (storage/transport) Altitude Permissible humidity (operation) Permissible humidity (storage/transport) pprovals EAC	IP40 $-20 \ ^{\circ}C \dots 75 \ ^{\circ}C$ $-25 \ ^{\circ}C \dots 80 \ ^{\circ}C$ $\leq 5000 \ m$ (For restrictions, see the manufacturer's declaration for altitude operation) $10 \ ^{\circ}\dots 95 \ ^{\circ}$ (non-condensing) $5 \ ^{\circ}\dots 95 \ ^{\circ}$ (non-condensing)
Insertion/withdrawal cycles Invironmental and real-life conditions Ambient conditions Degree of protection Ambient temperature (operation) Ambient temperature (storage/transport) Altitude Permissible humidity (operation) Permissible humidity (storage/transport) Oprovals EAC Identification	IP40 $-20 \ ^{\circ}C \dots 75 \ ^{\circ}C$ $-25 \ ^{\circ}C \dots 80 \ ^{\circ}C$ $\leq 5000 \ m$ (For restrictions, see the manufacturer's declaration for altitude operation) $10 \ ^{\circ}\dots 95 \ ^{\circ}$ (non-condensing) $5 \ ^{\circ}\dots 95 \ ^{\circ}$ (non-condensing)
Insertion/withdrawal cycles Invironmental and real-life conditions Ambient conditions Degree of protection Ambient temperature (operation) Ambient temperature (storage/transport) Altitude Permissible humidity (operation) Permissible humidity (storage/transport) Coprovals EAC Identification ATEX	IP40 $-20 \ ^{\circ}C \dots 75 \ ^{\circ}C$ $-25 \ ^{\circ}C \dots 80 \ ^{\circ}C$ $\leq 5000 \text{ m}$ (For restrictions, see the manufacturer's declaration for altitude operation) $10 \ ^{\circ}\dots 95 \ ^{\circ}$ (non-condensing) $5 \ ^{\circ}\dots 95 \ ^{\circ}$ (non-condensing) EAC
Insertion/withdrawal cycles Invironmental and real-life conditions Ambient conditions Degree of protection Ambient temperature (operation) Ambient temperature (storage/transport) Altitude Permissible humidity (operation) Permissible humidity (storage/transport) EAC Identification ATEX Identification	IP40 -20 °C 75 °C -25 °C 80 °C ≤ 5000 m (For restrictions, see the manufacturer's declaration for altitude operation) 10 % 95 % (non-condensing) 5 % 95 % (non-condensing) EAC Image: Second secon



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Free from substances that could impair the application of coating

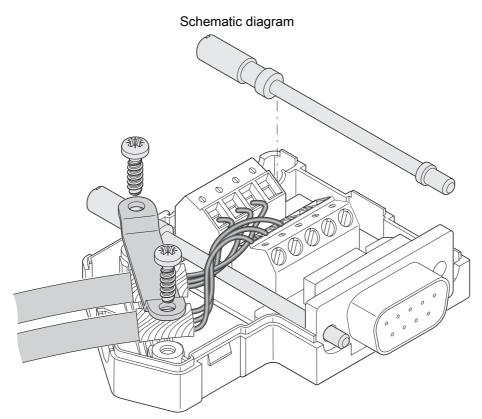
in accordance with VW-AUDI-Seat central standard P-VW 3.10.7 57 65 0

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Drawings



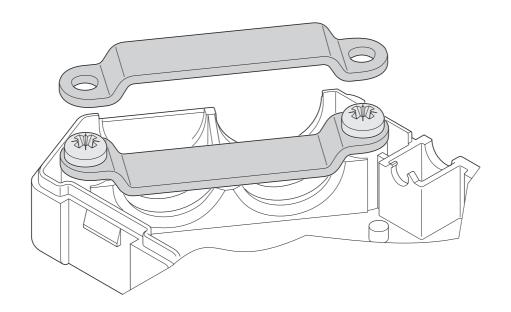
Left-hand side cable entry



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Schematic diagram

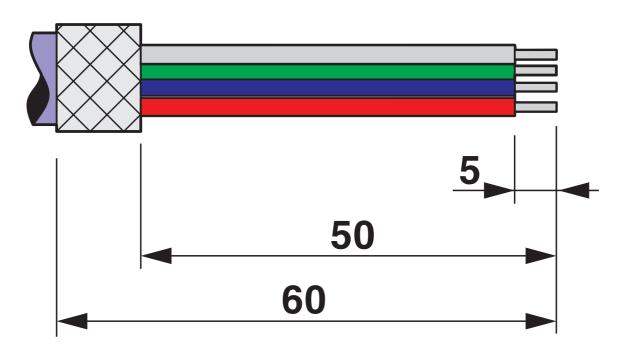


Clip bracket

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Schematic diagram

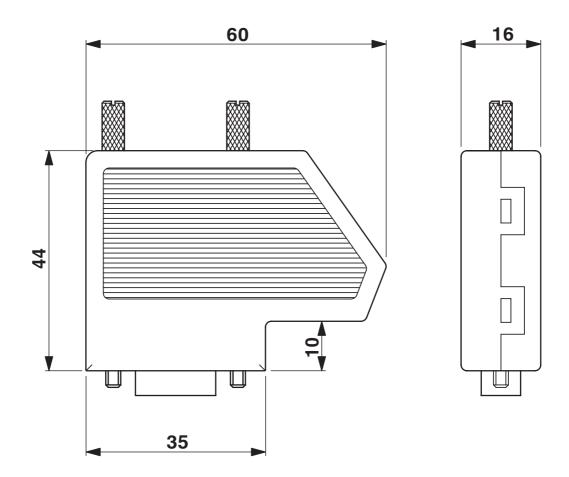


Stripping specifications

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Dimensional drawing



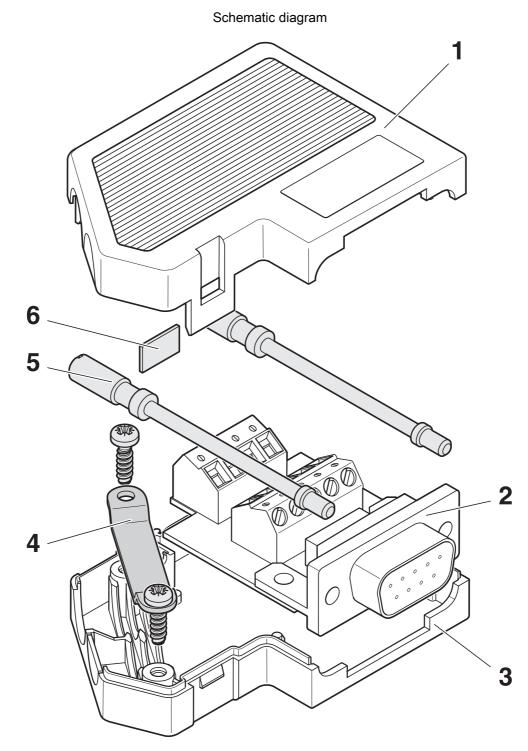
Dimensional drawing SUBCON-PLUS...

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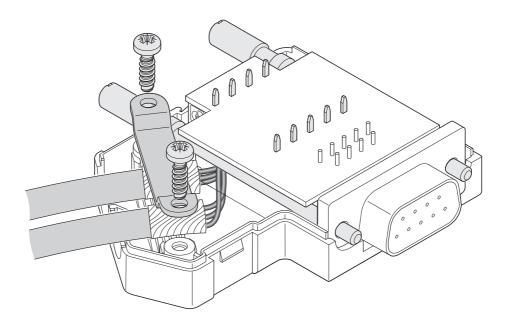
Function elements



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Schematic diagram

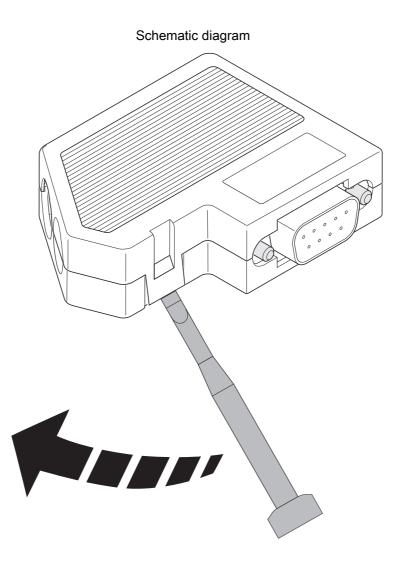


Right-hand side cable entry



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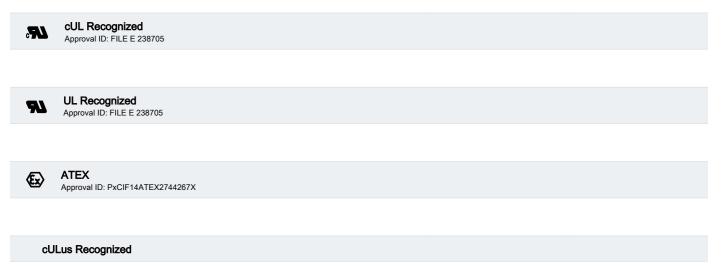
Opening the housing



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Approvals

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Classifications

ECLASS

ECLASS-11.0	27440302
ECLASS-12.0	27440302
ECLASS-13.0	27440302

ETIM

	ETIM 9.0	EC001132
UN	ISPSC	
	UNSPSC 21.0	39121400

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Environmental product compliance

China RoHS

Environmentally friendly use period: unlimited = EFUP-e No hazardous substances above threshold values

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