

## D-SUB bus connector - SUBCON-PLUS-F/AX 9 - 2311797

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D-SUB connector, 9-pos. female connector, axial version with two cable entries, universal type for all systems, pin assignment: 1, 2, 3, 4, 5, 6, 7, 8, 9 to screw connection terminal block

### Product Features

- Easy assembly thanks to knurled screws
- High level of EMC
- Assembly under field conditions
- For universal use



### Key Commercial Data

Packing unit	1 pc
Weight per Piece (excluding packing)	40.0 g
Custom tariff number	85366990
Country of origin	Germany

### Technical data

#### Dimensions

Max. cable diameter	8.4 mm
Min. cable diameter	7.6 mm
Width	17 mm
Height	31.5 mm
Length	58.2 mm

#### Ambient conditions

Ambient temperature (operation)	-20 °C ... 75 °C
Ambient temperature (storage/transport)	-25 °C ... 80 °C
Altitude	5000 m (For restrictions see manufacturer's declaration)

#### General

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### Technical data

#### General

Nominal voltage $U_N$	50 V
Nominal current $I_N$	100 mA
Bus system	Universal type for all systems
Signal	RS-232
	RS-422
	RS-485
Insertion/withdrawal cycles	> 200
SUBCON fixing screws	4-40 UNC
Tightening torque	0.4 Nm
Housing material	ABS, metal-plated
Pin assignment	1, 2, 3, 4, 5, 6, 7, 8, 9
MTTF	6706 Years (SN 29500 standard, temperature 25°C, operating cycle 21 % (5 days a week, 8 hours a day))
	1817 Years (SN 29500 standard, temperature 40 °C, operating cycle 34.25 % (5 days a week, 12 hours a day))
	155 Years (SN 29500 standard, temperature 40°C, operating cycle 100 % (7 days a week, 24 hours a day))

#### Connection data

Connection	D-SUB connection
Number of positions	9
Connection method	D-SUB socket
Torque	0.4 Nm
Connection	PCB connection
Connection method	Screw connection
Conductor cross section flexible min.	0.14 mm <sup>2</sup>
Conductor cross section flexible max.	0.5 mm <sup>2</sup>
Conductor cross section solid min.	0.14 mm <sup>2</sup>
Conductor cross section solid max.	0.5 mm <sup>2</sup>
Min. AWG conductor cross section, flexible	26
Max. AWG conductor cross section, flexible	20
Conductor cross section AWG min.	26
Conductor cross section AWG max.	20
Stripping length	4.5 mm
Torque	0.4 Nm

#### Standards and Regulations

ATEX	# II 3 G Ex nA IIC T4 Gc X
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## Classifications

### eCl@ss

eCl@ss 4.0	27140816
eCl@ss 4.1	27140816
eCl@ss 5.0	27143424
eCl@ss 5.1	27143424
eCl@ss 6.0	27143424
eCl@ss 7.0	27440209
eCl@ss 8.0	27440302

### ETIM

ETIM 2.0	EC001132
ETIM 3.0	EC001132
ETIM 4.0	EC001132
ETIM 5.0	EC001132

### UNSPSC

UNSPSC 6.01	30211802
UNSPSC 7.0901	39121402
UNSPSC 11	39121402
UNSPSC 12.01	39121402
UNSPSC 13.2	39121402

## Approvals

### Approvals

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#### Approvals

UL Recognized / cUL Recognized / EAC / cULus Recognized

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#### Ex Approvals

ATEX

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Approvals submitted


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### Approval details


## D-SUB bus connector - SUBCON-PLUS-F/AX 9 - 2311797

### Approvals

UL Recognized 

cUL Recognized 

EAC

cULus Recognized 

### Accessories

#### Accessories

#### Data plug

D-SUB gender changer - VS-09-GC-ST/ST - 1652651



D-SUB contact insert, shell size 1, with nine signal contacts, type of contact pin, gender changer, fixing with 4-40 UNC thread

D-SUB bus connector - SUBCON-PLUS-M/AX 9 - 2904467



D-SUB plug, 9-pos., pin, axial design with two cable entries, universal type for all systems, pin assignment: 1, 2, 3, 4, 5, 6, 7, 8, 9 to screw connection terminal block

D-SUB bus connector - SUBCON 9/F-SH - 2761499



D-SUB plug, 9-pos. female connector, one cable entry < 35°, universal type for all systems, pin assignment: 1, 2, 3, 4, 5, 6, 7, 8, 9 to screw connection terminal block

## D-SUB bus connector - SUBCON-PLUS-F/AX 9 - 2311797

### Accessories

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#### Screwdriver tools

Screwdriver - SZK PH1 VDE - 1205150



Screwdriver, PH crosshead, VDE insulated, size: PH 1 x 80 mm, 2-component grip, with non-slip grip

Screwdriver - SZS 0,4X2,0 - 1205202



Micro screwdriver, bladed, size: 0.4 x 2.0 x 60 mm, 2-component grip, with non-slip grip and twist cap

#### Stripping tool

Stripping pliers - QUICK WIREFOX 6 - 1204384

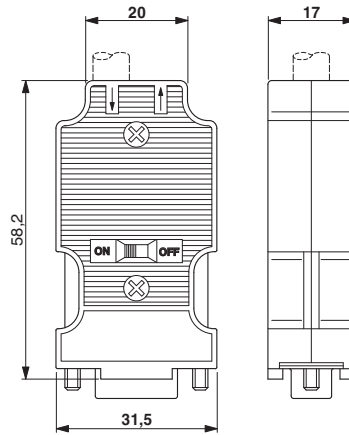


Stripping tool for cables with PVC insulation, stripping range: 0.08 to 6 mm<sup>2</sup>, wire cutting up to 6 mm<sup>2</sup> flexible or 4 mm<sup>2</sup> rigid

#### Drawings

## D-SUB bus connector - SUBCON-PLUS-F/AX 9 - 2311797

Dimensional drawing



Dimensional drawing SUBCON-PLUS-.../AX...