PHŒNIX CONTACT

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

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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

Product Description

The 9-pos. version of the SUBCON-... connector range is not just suitable for INTERBUS, but is positively ideal. A whole host of further applications are opened up by having all the connections assigned to their own 1 mm² screw terminal block.
The range covers SUBCON plugs for point-to-point connections with a cable infeed in 9, 15 and 25-pos. male or female versions.
The optional fastening screw SUBCON-SHORT-SCREW is available as an accessory for narrow installation conditions. The screw is completely integrated into the housing by not having a knurl.

Your advantages

☑ Easy assembly thanks to knurled screws

☑ For universal use

☑ High level of EMC

☑ Flexibility in terms of cable entry selection

☑ Assembly under field conditions

☑ Change to the D-SUB orientation through a reversible connection block

RoHS

Ex INTERBUS RS-232 RS-422 RS-485

Key Commercial Data

Packing unit	1 pc
GTIN	4 017918 064730
GTIN	4017918064730
Weight per Piece (excluding packing)	45.000 g
Custom tariff number	85366990
Country of origin	Germany

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Technical data

Dimensions

Max. cable diameter	10 mm
Min. cable diameter	4 mm
Width	16 mm
Height	55 mm
Length	56.5 mm

Ambient conditions

Ambient temperature (operation)	-20 °C ... 75 °C
Ambient temperature (storage/transport)	-25 °C ... 80 °C
Altitude	≤ 5000 m (For restrictions, see the manufacturer's declaration for altitude operation)
Degree of protection	IP20
	IP20

General

Nominal voltage U_N	50 V DC
Nominal current I_N	100 mA
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	All connections are 1:1 on the screw terminal block
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%)

Connection data

Connection	D-SUB connection
Number of positions	9
Connection method	D-SUB socket
Connection	PCB connection
Connection method	Screw connection
Conductor cross section flexible min.	0.14 mm²
Conductor cross section flexible max.	1 mm²
Conductor cross section solid min.	0.14 mm²

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Connection data

Conductor cross section solid max.	1.5 mm²
Min. AWG conductor cross section, flexible	26
Max. AWG conductor cross section, flexible	18
Conductor cross section AWG min.	26
Conductor cross section AWG max.	16
Stripping length	5 mm
Tightening torque	0.4 Nm

Conformance/approvals

Designation	EAC
Identification	EAC
Designation	ATEX
Identification	# II 3 G Ex nA IIC T4 Gc X
Additional text	Please follow the special installation instructions in the documentation!
Designation	Corrosive gas test
Identification	ISA-S71.04-1985 G3 Harsh Group A

Standards and Regulations

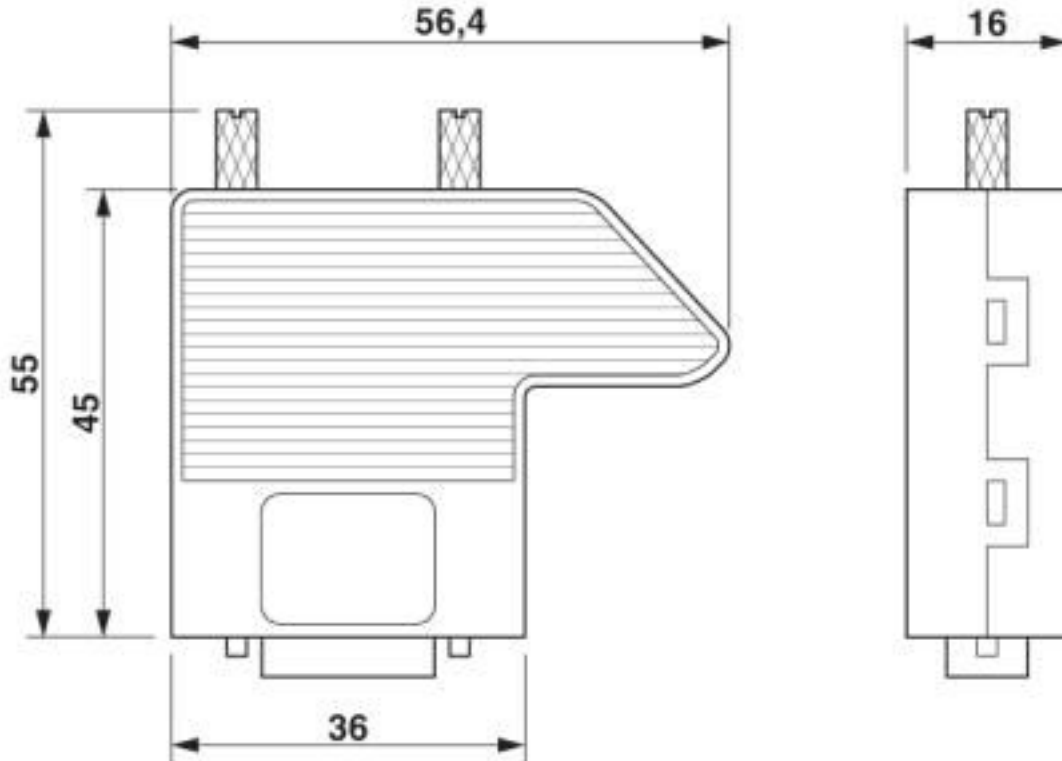| Free from substances that could impair the application of coating	according to P-VW 3.10.7 57 65 0 VW-AUDI-Seat central standard
Connection in acc. with standard	CUL

Environmental Product Compliance

REACh SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

Drawings

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Classifications

ETIM

ETIM 6.0	EC001132
ETIM 7.0	EC001132

UNSPSC

UNSPSC 6.01	30211802
UNSPSC 7.0901	39121402
UNSPSC 11	39121402
UNSPSC 12.01	39121402
UNSPSC 13.2	39121522
UNSPSC 18.0	39121522
UNSPSC 19.0	39121522
UNSPSC 20.0	39121522
UNSPSC 21.0	39121522

Approvals

Approvals

Approvals

CSA / UL Recognized / cUL Recognized / EAC / cULus Recognized

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Ex Approvals

ATEX

Approval details

CSA		http://www.csagroup.org/services-industries/product-listing/	2437602

UL Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 238705

cUL Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 238705

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Approvals

EAC	EAC	EAC-Zulassung

cULus Recognized	cULus	

Accessories

Accessories

Adapter

Adapter - PSM-AD-D9-NULLMODEM - 2708753

V.24 (RS-232) zero modem connector

Data plug

D-SUB bus connector - SUBCON 9/M-SH - 2761509

D-SUB connector, 9-pos., male 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 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

Mounting material

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Accessories

Screw - SUBCON-SHORT-SCREW - 2799694

Optional mounting screw, without knurl for narrow installation conditions, slotted head, length: 40 mm, UNC 4-40 thread
Supplied as standard: 1 bag of 20 screws

Crimping pliers - CRIMPFOX-1,6-ER-1,50-GH - 1772793

Crimping pliers, for IBS DSUB.../C

Screw - SUBCON-RAENDEL-SCREW-3MM - 2310387

Optional mounting screw, with knurl for mounting by hand or using a screwdriver, bladed, length: 56 mm, metric M3 thread

Screwdriver tools

Screwdriver - SZF 0-0,4X2,5 - 1204504

Actuation tool, for ST terminal blocks, also suitable for use as a bladed screwdriver, size: 0.4 x 2.5 x 75 mm, 2-component grip, with non-slip grip