

VARIOSUB D-SUB 9 Contact Inserts, Sleeve Housings

VARIOSUB is a range of plug connectors specially designed for signal and data technology in an industrial environment with high degrees of protection, temperatures and mechanical stress. The range is characterized by the simple Push-Pull locking mechanism, use of conventional D-SUB contact inserts, IP 67 protection and EMC protection.

The VARIOSUB housings offer the space and time-saving Push-Pull locking, which snaps in with a noticeable click. Two integrated lamellar cable screw connections for cable diameters of 3-10 mm provide high cable strain relief.

When locked, the housings fulfill the requirements of IP 67 protection, and require only little operating force thanks to a special profile gasket.

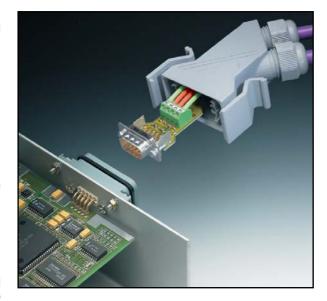
Red snap-in profiles offer up to 16 coding possibilities to avoid incorrect plugging. Marker labeling is also provided for.

Simple logistics due to the small number of individual components and high functionality of the housings help to save costs and increase availability. Mounting flanges on the panel mounting base accept the contact inserts. This allows internal and external wall mounting of the contact inserts.

The male and female inserts in D-SUB 9 format enable 9 data lines and the cable shield to be connected. The connection points are clearly numbered. This facilitates any start-up under field conditions.

Industrial connectors are available for the sleeve and mounting side. They are made with screw connection, for soldering onto printed circuit boards, with a flat-ribbon cable connection and for crimp contacts.

For currents up to 40 A or in combination with signal lines, two versions are available as male and female connectors. The use of these plug connectors saves space on the inside of the device. The contacts are equipped with U-grooves for manual solder connection and cover the maximum possible cross section range.



VARIOSUB D-SUB 9 Contact Inserts Screw Connection



Description		Туре	Order No.	Pcs./Pkt.
Male contact inserts, with PCB and 10 x MPT 0,5 screw connections		VS-09-ST-DSUB/10-MPT-0,5	16 88 37 9	10
Female contact inserts, with PCB and 10 x MPT 0,5 screw connections		VS-09-BU-DSUB/10-MPT-0,5	16 88 39 5	10
Technical data				
Mechanical data				
Insertion force per signal contact	[N]	≤ 3.3		
Extraction force per signal contact	[N]	≤ 2.2		
Insertion/withdrawal cycles		≥ 200		
Material and surfaces				
Insulating body		PBTP		
Contact material		Cu alloy		
Contact surface		Ni/Au		
Electrical data				
Max. amperage	[A]	1		
Operating voltage	[V]	63		
Contact resistance per contact pair	$[m\Omega]$	≤ 2.5		
Insulation resistance	[MΩ]	≥ 5000		
Thermal and climatice data				
Temperature range	[°C]	- 20 to + 8	0	

VARIOSUB D-SUB 9 Contact Inserts Solder Connection



Description		Туре	Order No.	Pcs./Pkt.
Male contact inserts, solder connection, with straight solder pins, with hole		VS-09-ST-DSUB-EG	16 88 79 3	10
Female contact inserts, solder connection, with straight solder pins, with hole		VS-09-BU-DSUB-EG	16 88 80 3	10
Male contact inserts, solder connection, with angled solder pins, with thread		VS-09-ST-DSUB-ER	16 88 38 2	10
Female contact inserts, solder connection, with angled solder pins, with thread		VS-09-BU-DSUB-ER	16 88 40 5	10
Technical data				
Mechanical data				
Insertion force per signal contact	[N]		3.3	
Extraction force per signal contact Insertion/withdrawal cycles	[N]		2.2 200	
Material and surfaces		2	200	
Insulating body		P	ВТР	
Contact material		-	ı alloy	
Contact surface			li/Au	
Electrical data		·		
Max. amperage	[A]		1	
Operating voltage	ίνὶ		63	
Contact resistance per contact pair	$[m\Omega]$	≤	2.5	
Insulation resistance	[MΩ]	≥	5000	
Thermal and climatice data	• •			
Temperature range	[°C]	- 55	to + 125	

VARIOSUB D-SUB 9 Contact Inserts Flat-Ribbon Cable Connection





Description		Туре	Order No.	Pcs./Pkt.
Male contact inserts, flat-ribbon cable connection, with holes		VS-09-ST-DSUB-FK	16 88 81 6	10
Female contact inserts, flat-ribbon cable connection, with holes		VS-09-BU-DSUB-FK	16 88 92 9	10
Technical data				
Mechanical data				
Insertion force per signal contact	[N]	<u> </u>	≤ 3.3	
Extraction force per signal contact	[N]	<u> </u>	≤ 2.2	
Insertion/withdrawal cycles		≥	200	
Material and surfaces				
Insulating body		F	PBTP	
Contact material		Cu	u alloy	
Contact surface		1	Ni/Au	
Electrical data				
Max. amperage	[A]		1	
Operating voltage	[V]		63	
Contact resistance per contact pair	$[m\Omega]$	<u> </u>	≤ 2.5	
Insulation resistance	[MΩ]	≥	5000	
Thermal and climatice data				
Temperature range	[°C]	- 55	to + 125	

VARIOSUB D-SUB 9 Contact Inserts Crimp Connection



Description		Туре	Order No.	Pcs./Pkt.
Male contact carrier, crimp contact carriers, with thread		VS-09-ST-DSUB-CD-G	16 88 83 2	10
Female contact carrier, crimp contact carriers, with thread		VS-09-BU-DSUB-CD-G	16 88 84 5	10
Male contact carrier, crimp contact carriers, with holes		VS-09-ST-DSUB-CD-B	16 88 85 8	10
Female contact carrier, crimp contact carriers, with holes		VS-09-BU-DSUB-CD-B	16 88 86 1	10
Accessories				
Turned male crimp contacts, surface gold-plated	AWG 24-20 AWG 28-24	VS-ST-CD-1,0/14,8/0,5 VS-ST-CD-1,0/14,8/0,2	16 88 96 8 16 88 97 1	30
Turned female crimp contacts, surface gold-plated	AWG 24-20 AWG 28-24	VS-BU-CD-1,0/14,4/0,5 VS-BU-CD-1,0/14,4/0,2	16 88 98 4 16 88 99 7	30
Technical data				
Mechanical data Insertion force per signal contact Extraction force per signal contact Insertion/withdrawal cycles Electrical data	[N]	<u> </u>	≤ 3.3 ≤ 2.2 ≥ 200	
Max. amperage Operating voltage Insulation resistance Thermal and climatice data	[A] [V] [MΩ]	≥	1 63 5000	
Temperature range	[°C]	- 55	to + 125	

VARIOSUB D-SUB 9 Contact Inserts with High Current Contacts Solder Connection



Description		Туре	Order No.	Pcs./Pkt.
Male contact carrier, for power contacts, 2-pos.		VS-09-ST-DSUB-2P	16 88 41 8	10
Female contact carrier, for power contacts, 2-pos.		VS-09-BU-DSUB-2P	16 88 42 1	10
Accessories				
Male power contact for 20 A, with U-groove solder connection		VS-ST-LK-3,6/22,4/2,6	16 88 24 3	30
Female power contact for 20 A, with U-groove solder connection		VS-BU-LK-3,6/22,8/2,6	16 88 25 6	30
Male power contact for 40 A, with U-groove solder connection		VS-ST-LK-3,6/22,4/4,6	16 88 26 9	30
Female power contact for 40 A, with U-groove solder connection		VS-BU-LK-3,6/22,8/4,6	16 88 27 2	30
Technical data				
Mechanical data Insertion/withdrawal cycles Material and surfaces		≥	500	
Insulating body Housing		S	/ (UL 94 V0) teel	
Housing surface Contact material		Cu	plated alloy	
Contact surface Electrical data		0.8 μm gol	ld over nickel	
Max. amperage, power contacts Operating voltage	[A] [V]		or 40 125	
Contact resistance per contact pair	[v] [mΩ]		2.5	
Insulation resistance	[MΩ]		5000	
Specific contact resistance	[Ωcm]		0 ¹⁶	
Specific internal insulation resistance	[KV/mm]		50	
Thermal and climatice data	_			
Temperature range	[°C]	- 20	to + 80	

Note:
The power contacts must be ordered separately since they are not included in the scope of supply of the contact carriers of combi contact inserts.
One female and one male contact each must be mounted in the VS-09-ST-DSUB-2P and VS-09-BU-DSUB-2P contact carriers.

VARIOSUB D-SUB 9 Contact Inserts with High Current and Signal Contacts **Solder Connection**





Description		Туре	Order No.	Pcs./Pkt.
Male contact carrier, for 1 power contact, with 4 signal contacts, U-groove solder connection		VS-09-ST-DSUB-1P-4S	16 89 00 6	10
Female contact carrier, for 1 power contact, with 4 signal contacts, U-groove solder connection		VS-09-BU-DSUB-1P-4S	16 89 01 9	10
Accessories				
Male power contact for 20 A, with U-groove solder connection		VS-ST-LK-3,6/22,4/2,6	16 88 24 3	30
Female power contact for 20 A, with U-groove solder connection		VS-BU-LK-3,6/22,8/2,6	16 88 25 6	30
Male power contact for 40 A, with U-groove solder connection		VS-ST-LK-3,6/22,4/4,6	16 88 26 9	30
Female power contact for 40 A, with U-groove solder connection		VS-BU-LK-3,6/22,8/4,6	16 88 27 2	30
Technical data				
Mechanical data Insertion/withdrawal cycles Material and surfaces		≥ 500	0	
Insulating body Housing Housing surface Contact material Contact surface		PBTP GV (U Stee Tin-pla Cu all 0.8 μm gold c	l ted oy	
Electrical data Max. amperage, signal contacts Max. amperage, power contacts Operating voltage	[A] [A] [V]	5 20 or 125	40	
Thermal and climatice data Temperature range	[°C]	- 20 to -	+ 80	

Note:
The power contacts must be ordered separately since they are not included in the scope of supply of the contact carriers of combi contact inserts.

VARIOSUB D-SUB 9 Sleeve Housings



Description	Туре	Order No.	Pcs./Pkt.
Plastic sleeve housing, with Push-Pull locking for panel mounting base, with 2 inclined M 16 lamellar screw connections, with 2 screws for fastening the contact inserts	VS-09-T-2M16	16 88 35 3	5
Accessories			
M 16 cap nut with seal for conductor diameters from 3-7mm for conductor diameters from 5-10mm	VS-M16 (3-6) VS-M16 (5-9)	16 88 45 0 16 88 44 7	5
Cover cap, for vacant PG11 screw connections	Q-PROT 9/11	16 70 23 5	10
Coding profile, made of red plastic, mounted in the panel mounting base and sleeve housing (4 profiles for each plug connector), see Fig. 1	CP-HCC 4	16 00 02 7	100
Marker labels, for snapping in	ZBN 18: UNBEDRUCKT	28 09 12 8	10
Protective cover, for covering the contact insert in the panel mounting frame or sleeve housing	VS-09-SD	18 87 08 6	5
Technical data			
Insulation material		PA	
Inflammability class acc. to UL 94		V0	
Degree of protection	I	P 67	
Temperature range [°C]	- 20	to + 80	

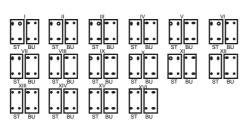
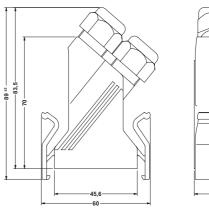


Figure 1: Coding for housings with one contact insert



VS-09-T...

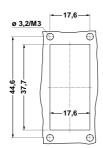


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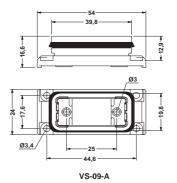
VARIOSUB D-SUB 9 Panel Mounting Frames



Description	Туре	Order No.	Pcs./Pkt.
Plastic panel mounting frame, with radially-acting profile gasket mounted, with enclosed self-adhesive flat gasket (without mounting screws)	VS-09-A	16 88 36 6	5
Accessories			
EMC shroud, for contacting a D-SUB contact insert on the mounting side with the outer wall of the housing	VS-09-A-EMV-S	16 88 46 3	5
Protective cover , for covering the contact insert in the panel mounting frame or sleeve housing	VS-09-SD	18 87 08 6	5
Technical data	<u> </u>		
Insulation material		PA	
Inflammability class acc. to UL 94		V0	
Degree of protection		IP 67	
Temperature range [°C]		- 20 to + 80	



Panel cutout: VS-09-A-GC...

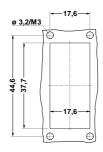


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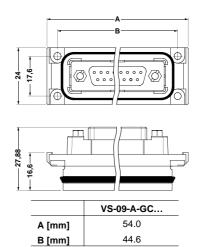
VARIOSUB D-SUB 09 Panel Mounting Frames with Gender Changer



Description		Туре	Order No.	Pcs./Pkt.
Panel mounting frame, with gender changer	Female / Female	VS-09-A-GC-BU/BU	16 89 69 5	5
Panel mounting frame, with gender changer	Male / Male	VS-09-A-GC-ST/ST	16 89 70 5	5
Technical data				
Insulation material			PA	
Inflammability class acc. to UL 94			V0	
Degree of protection			IP 67	
Temperature range	[°C]	2	20 to + 80	



Panel cutout: VS-09-A-GC...



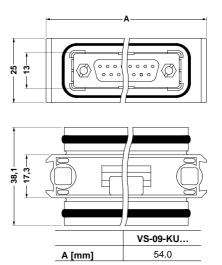
Dimensional drawing: VS-09-A-GC...

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VARIOSUB D-SUB 09 Couplings



Description		Туре	Order No.	Pcs./Pkt.
Coupling, 9-pos.,	Female / Female	VS-09-KU-BU/BU	16 89 63 7	5
Coupling, 9-pos.	Male / Male	VS-09-KU-ST/ST	16 89 64 0	5
Technical data				
Insulation material			PA	
Inflammability class acc. to UL 94			V0	
Degree of protection			IP 67	
Temperature range	[°C]_		20 to + 80	



Dimensional drawing: VS-09-KU...

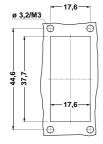
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VARIOSUB D-SUB 9 Plug Connector Sets

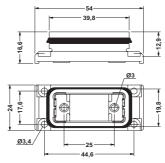




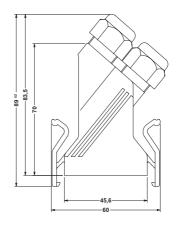
Description		Туре	Order No.	Pcs./Pkt.
Set VARIOSUB D-SUB 9, standard version for D-SUB 9 contact inserts, with Push-Pull locking, IP 67		VS-09-SET-STD	16 89 14 5	1
Set VARIOSUB D-SUB 9, EMC version for D-SUB 9 contact inserts, with Push-Pull locking, IP 67		VS-09-SET-EMV	16 89 15 8	1
Accessories				
Protective cover, for covering the contact insert in the panel mounting frame or sleeve housing		VS-09-SD	18 87 08 6	5
Technical data				
Insulation material		PA		
Inflammability class acc. to UL 94		V0		
Degree of protection		IP 67		
Temperature range	[°C]	- 20 to + 8	80	

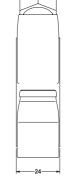


Panel cutout: VS-09-A-GC...



Dimensions: Panel mounting frame

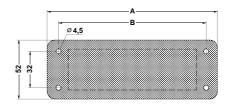




Dimensions: Sleeve housing

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Description	Туре	Order No.	Pcs./Pkt.
VARIOSUB adapter plates, reinforced, including adapter frame and protective cover 1 x VS 09, 1 x RJ 45/IP67	VS-ADP16-VS09 VS-ADP24-VS09/VS09 VS-ADP24-VS09/RJ45	16 52 13 0 16 52 16 9 16 52 17 2	1
Accessories	-		
Hand punch pliers, pliers for punching tool	VS-LWZH	18 89 51 4	1
Square punch, punching tool for cutting out the panel mounting frame	VS-LWZH/24,6/20,1	16 89 52 7	1



Type	Α	В
VS-ADP 16 VS-ADP 24	123 150	103 130
VS-ADP 24	150	130

Table of dimensions for VS-ADP... adapter plates
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