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Title: CONEC IP67 D-SUB series - perfect for use in harsh environments!



Caption: IP67 D-SUB Serien Solid Body & CONEC SlimCon

For industrial use in harsh environments, connector systems are needed that meet special requirements.

The CONEC range includes a wide variety of IP67 D-SUB connectors and corresponding protective hoods. In addition to the IP67 product series D-SUB, D-SUB High Density, Combination D-SUB, Combination D-SUB High Density and Filter D-SUB in standard design, CONEC offers the series

Solid Body and CONEC SlimCon. The advantage of the Solid-Body and CONEC SlimCon connector series is their one-piece zinc die-cast housing with nickel-plated surface, which guarantees optimum protection for the system.

The CONEC SlimCon series stands out not only due to its very small dimensions, but it also includes D-SUB filter connectors with an integrated low-pass filter for conducted interference protection. Thus, the interfaces to the interior of the device are not only perfectly protected against moisture, but can also contribute to meet EMC requirements.

The above connectors [Solid Body and CONEC SlimCon] are designed for rear panel mounting and come with a 4-40 UNC internal thread. Corresponding threaded bolts made of stainless steel are standard parts of the product series.

In addition to the connectors, various IP67 D-SUB protective hoods are also part of the CONEC product range. As a metallized version, IP67 hoods also provide protection against electromagnetic interferences.

Despite the compact design, the IP67 hoods have sufficient space to accommodate all D-SUB connectors as well as Combination D-SUB connectors with integrated coaxial or high current contacts. The mounting screws are made of stainless steel.

In case of publication we would appreciate a specimen copy, preferably as PDF file.

IP67 CONEC SlimCon D-SUB, D-SUB High Density, Combination D-SUB



Caption: IP67 D-SUB Series CONEC Slimcon

The IP67 CONEC SlimCon connector series are available in housing sizes 1 to 3 as male and female. Due to their small size and one-piece zinc die-cast housing, they are ideally suited for industrial and harsh environments. Four contact surfaces ensure that the connectors are always mounted evenly with the existing seal on the device wall, thus preventing overstressing of the seal and at the same time ensuring safe assembly at the customer's site.

CONEC SlimCon connectors are designed for a panel thicknesses between 0.8 mm and 1.3 mm.

The size of the housing corresponds to the standard dimensions of the D-SUB connectors and achieves a reduction of the occupied area of 48% to 52% compared to the IP67 protected connectors with extended sealing frame. This generally applies to all CONEC SlimCon connectors.

Size	IP67 D-SUB CONEC SlimCon	Standard IP67 D-SUB	Reduction of the external dimensions compared to a standard IP67 connector	Reduction of the mounting surface
1	30.88 mm x 12.8 mm	39.4 mm x 21.1 mm	Width: 8.3 mm / 13,5 % Height: 8.3 mm / 39 %	52 %
2	39.22 mm x 12.8 mm	47.7 mm x 21.1 mm		50 %
3	53.1 mm x 12.8 mm	61.4 mm x 21.1 mm		48 %

IP67 CONEC SlimCon D-SUB Filter

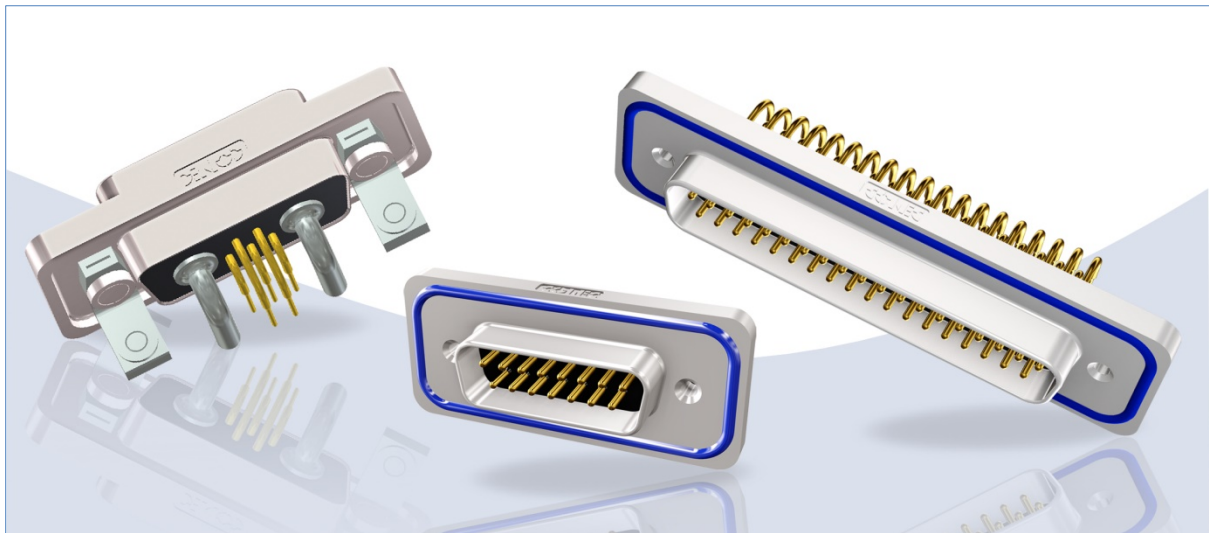
The IP67 CONEC SlimCon Filter series is sealed to the housing with a conductive EMC seal or optionally with a silicone seal. The housing sizes 1 to 3 are also available as male and female. Solder pin straight and solder cup contacts can be used. The integrated filters are offered with capacitance values of 370 pF, 820 pF and 1200 pF. Other capacitance values and special customer requirements can be created and offered on request.

CONEC SlimCon connectors are designed for a panel thickness between 0.8 mm and 1.3 mm.

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Product details Series CONEC SlimCon:

Series	CONEC SlimCon D-SUB	CONEC SlimCon D-SUB High Density	CONEC SlimCon Combination D-SUB	CONEC SlimCon D-SUB Filter
No. of poles	9–25-pos.	15–44-pos.	2W2CS / 3W3C / 3W3 / 7W2 / 5W5 / 9W4 / 13W3 / 17W2 / 21W1	9-pos. / 15-pos. / 25.-pos.
Gender	Male/Female			
Mounting style	Rear panel mounting panel thickness 0.8 mm up to 1.3 mm			
Current rating	5 A	3 A	5 A signal contact / 10 A bis zu 40 A power contact (20 A Standard)	5A
Working voltage	125 V AC/DC	60 V AC/DC	250 V AC/DC	100 VDC
	depending on isolation coordination refer to DIN VDE 0110 / IEC 664-1			
Capacity [+/-20%]				370 pF, 820 pF, 1200 pF
Termination	Solder pin straight, solder pin angled and solder cup			Solder pin straight and solder cup AWG20
Contact plating	Gold over nickel			
Operating temperature	-40 °C up to +105 °C			
Degree of protection	IP67 (in mated and mountend condition)			

IP67 CONEC Solid Body D-SUB, D-SUB High Density, Combination D-SUB, Combination D-SUB High Density**Caption:** IP67 D-SUB Serie Solid Body

The IP67 CONEC Solid Body connector series are available in housing sizes 1 to 5 as male and female. Due to the one-piece zinc die-cast housing, this series is also ideally suited for industrial and harsh environments. For the IP67 D-SUB range, numerous versions are available in 09-pin to 50-pin and for the IP67 D-SUB HD applications in 15-pin to 78 pin. In the IP67 Combination D-SUB and Combination D-SUB HD range, too, a wide variety of connectors can be offered.

The CONEC Solid Body connectors are designed for panel thicknesses between 1.0 mm and 1.6 mm.

Productdetails Serie Solid Body

Series	Solid Body D-SUB	Solid Body D-SUB High Density	Solid Body Combination D-SUB	Solid Body Combination D-SUB High Density
No. of poles	9-50-pos.	15-78-pos.	2W2CS / 3W3C / 3W3 / 5W5 / 8W8 / 5W1 / 7W2 / 11W1 / 9W4 / 13W3 / 17W2 / 21W1 / 13W6 / 17W5 / 21WA4 / 25W3 / 27W2 / 24W7 / 36W4 / 43W2 / 47W1	15W4 / 19W1 / 45W2
Gender	Male/female			
Mounting style	Rear panel mounting panel thickness 0.8 mm up to 1.6 mm			
Current rating	5 A	3 A	5 A signal contact / 10 A bis zu 40 A power contact (20 A Standard)	3 A signal contact / 10 A bis zu 40 A power contact (20 A Standard)
Working voltage	125 V AC/DC	60 V AC/DC	250 V AC/DC	60 V AC/DC
	depending on isolation coordination refer to DIN VDE 0110 / IEC 664-1			
Termination	Solder pin straight, solder pin angled and solder cup			
Contact plating	Gold over nickel			
Operation temperature	-40 °C up to +105 °C			
Degree of protection	IP67 (in mated and mounted condition)			

IP67 D-SUB Hoods**Caption:** IP67 D-SUB Hoods

IP67 hoods are available in housing sizes 1 to 5 and can accommodate different cables with a diameter of 7 to 16 mm, depending on the size. The shielded and unshielded versions can be mounted quickly and easily. The compact design of the IP67 hoods offers a space-saving solution to protect sensitive interfaces.

Productdetails IP67 D-SUB Hauben:

	D-SUB Hoods				
Shell size	1	2	3	4	5
Cable diameter [mm]	7-9	9-11	12-12	14 - 16	
Can be used for	D-SUB, D-SUB HD, Combination D-SUB, Combination D-SUB HD				
Mounting style	ack screws 4-40 UNC / short screws 4-40 UNC				
Total height	54.30 – 77.20 mm				
Working voltage	-30 °C up to +90 °C				
Degree of protection	IP67 (in mated and mounted condition)				

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**Fields of application:**

- Automation technology
- Drive technology
- Cable assembly
- Housing and device connection
- Industrial interfaces
- Machine manufacturing
- Assembly and production lines
- Power supply
- Transport industry
- Testing and diagnostic equipment
- Process automation
- Security and monitoring systems
- Control engineering
- Telecommunications
- Medical technology

Benefits:

- One-piece zinc die-cast housing (Solid Body and CONEC SlimCon)
- Space-saving design (CONEC SlimCon)
- Low weight
- With integrated C filter (CONEC SlimCon Filter D-SUB)
- Fully shielded with EMC seal (CONEC SlimCon Filter D-SUB)
- Protection class IP67 (in mated and mounted condition, higher protection class on request)
- RoHS compliant
- Easy mounting