


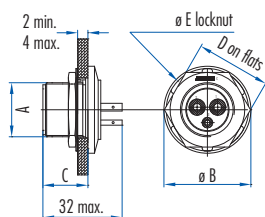


Hermetic Series – Hermetic Standard: Panel connector attached by locknut

Technical Data		Standard Series	Waterproof Series
RoHS	Male panel connector	Female cable connector	Female cable connector
			
Male panel connector	attached by locknut		
Cable connector		rectangular housing	circular housing
Locking		screw connection	
Protection	Depending on the associated cable connector	IP 50 to IP 54 with elastomer in the housing, flat-gasket for panel connector	IP 65 with flat-gasket for panel connector
Contacts	3 to 52 contacts \varnothing 2 mm, \varnothing 3 mm and / or \varnothing 4 mm, non-removable solder contacts		
Max. current	7 A \varnothing 2 mm – 12 A \varnothing 3 mm – 20 A \varnothing 4 mm		
Helium leak rate	$< 10^{-9}$ Atm.cm ³ /sec		
Permissible constant pressure difference between the two surfaces	50 bars, maximum test pressure: 150 bars		
Contact resistance	< 4 m Ω \varnothing 2 mm – < 3 m Ω \varnothing 3 mm – $< 1,5$ m Ω \varnothing 4 mm		
Insulation resistance	> 10000 M Ω		
Breakdown voltage between adjacent contacts	> 1500 Volts (RMS) at a pressure of ~ 100 Pa (according to Paschen's law)		
Operating temperature	-25 °C to +100 °C (500 hours at +125 °C)	-40 °C to +100 °C (500 hours at +125 °C)	
Materials	316L stainless steel body, Dilver P contacts, sintered glass insulation between pins and body guaranteeing excellent mechanical resistance	Nickel-plated light alloy, silver-plated brass contacts PBT insert except 4 mm diameter contacts which are gold-plated bras	
Max. cross-section of soldered conductors	1,34 mm ² \varnothing 2 mm (16AWG) – 3,18 mm ² \varnothing 3 mm (12AWG) – 5,26 mm ² \varnothing 4 mm (10AWG)		

Dimensional Data

Panel connector



Housing	Number of Contacts	Male panel connector				
		A	\varnothing B	C	D	E
1	3-4-6	M21	33,8	17,5	29	32
2	4-8-12	M27	39,8	17,5	35	38
3	17	Tr39	56	24,5	50	-
4	25	Tr45	62	24,5	60	-
5	35-52	Tr52	69	24,5	65	-

Hermetic Series – Hermetic Standard: Panel connector attached by locknut
Part Number

Housing	1	1	1	2	2	2	3	4	5	5
Number of Contacts	3	4	6	4	8	12	17	25	35	52
L \varnothing 2 mm	1	4	6		6	12	15	23	33	52
L \varnothing 3 mm	2				2		2	2	2	
L \varnothing 4 mm				4						

Male panel connectors attached by locknut

Complete male panel connector*	536 403 006	536 404 006	536 406 006	536 414 006	536 408 006	536 412 006	536 417 006	536 425 006	536 435 006	536 452 006
Protective cap for panel connector	536 910 006	536 910 006	536 910 006	536 911 006	536 911 006	536 911 006	536 912 006	536 913 006	536 914 006	536 914 006
Accessory for replacement										
L Seal	536 440 006	536 440 006	536 440 006	536 441 006	536 441 006	536 441 006	536 442 006	536 451 006	536 454 006	536 454 006
L Nut	536 446 006	536 446 006	536 446 006	536 447 006	536 447 006	536 447 006	536 448 006	536 450 006	536 453 006	536 453 006
L Locknut	536 443 006	536 443 006	536 443 006	536 444 006	536 444 006	536 444 006				

The electrical connection is made using a cable connector from our „Standard“ or „Waterproof“ Series. Select the most appropriate type of cable connector to suit your operating conditions.

Standard Series – Female cable connector (see page 10)

Female cable connector	042 953 006	043 085 006	042 954 006	530 763 006	042 955 006	042 956 006	038 382 006	042 977 006	042 990 006	530 703 006
Type 3 cable clamp	630 135 006	630 135 006	630 135 006	630 138 006	630 138 006	630 138 006	630 155 006	630 155 006	630 175 006	630 175 006
Protective cap for female cable connector	532 260 006	532 260 006	532 260 006	532 278 006	532 278 006	532 278 006	532 262 006	532 263 006	532 264 006	532 264 006

Waterproof Series – Female cable connector (see page 22)

Female cable connector + cable clamp, small outlet	532 401 006	532 402 006	532 403 006		532 404 006	532 405 006	532 406 006	532 407 006	532 408 006	530 713 006
L Capacity of the cable clamp in mm	\varnothing 7 – 10	\varnothing 7 – 10	\varnothing 7 – 10		\varnothing 9 – 13	\varnothing 9 – 13	\varnothing 12,5 – 17	\varnothing 12,5 – 17	\varnothing 16 – 23	\varnothing 16 – 23
Female cable connector + cable clamp, large outlet	532 411 006	532 412 006	532 413 006	530 773 006	532 414 006	532 415 006	532 416 006	532 417 006	532 418 006	530 714 006
L Capacity of the cable clamp in mm	\varnothing 9 – 12	\varnothing 9 – 12	\varnothing 9 – 12	\varnothing 12,5 – 17	\varnothing 12,5 – 17	\varnothing 12,5 – 17	\varnothing 16 – 23	\varnothing 16 – 23	\varnothing 22 – 32	\varnothing 22 – 32
Protective cap for female cable connector	532 270 006	532 270 006	532 270 006	532 271 006	532 271 006	532 271 006	532 262 006	532 268 006	532 269 006	532 269 006

- The panel connectors can also be connected with the female cable connector from the Waterproof High-Performance PG Series, and the female cable connector from the Waterproof PG Series.

-* The complete panel connector includes: a threaded metal body, with an immobilisation pin, pins that are attached and insulated by sintered glass beads, a synthetic rubber O-ring, a fastening nut locked by a washer (housings 1 and 2).

- For assembly, wiring, panel connector installation and contact arrangement instructions, see: Technical guides.

- Other accessories, see: Accessories.