

ODU MINI-SNAP

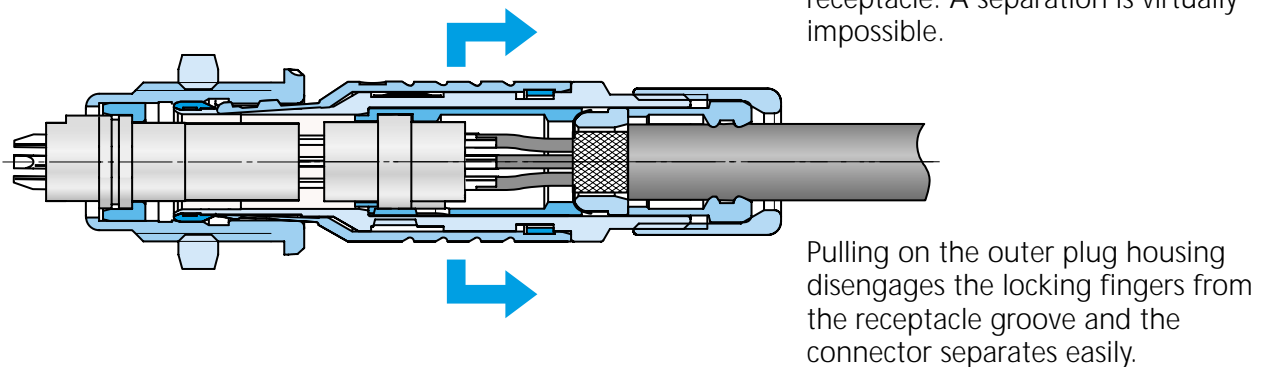
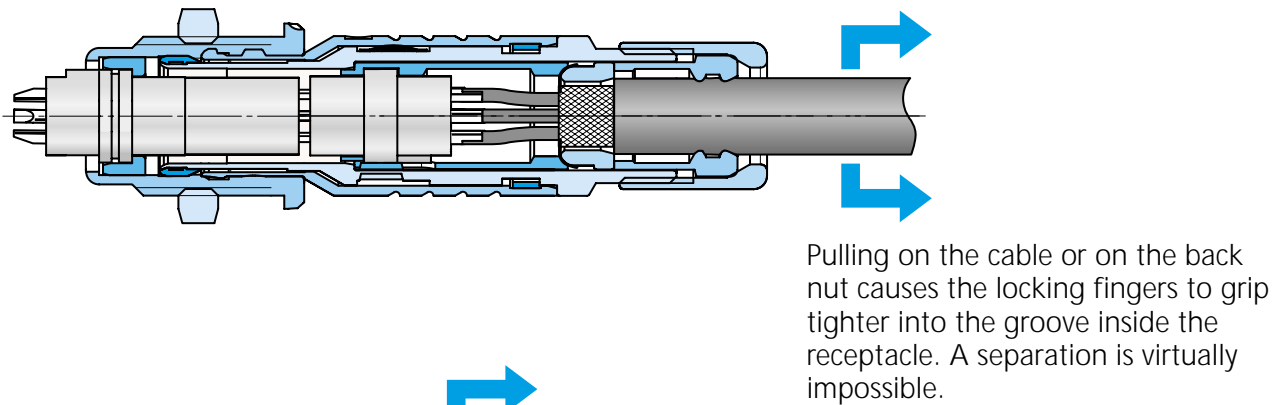
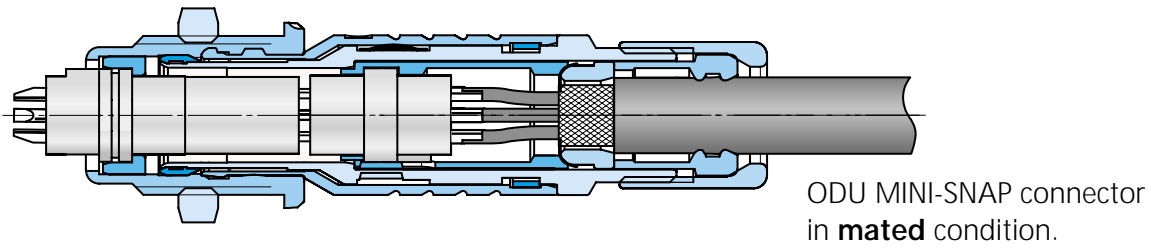
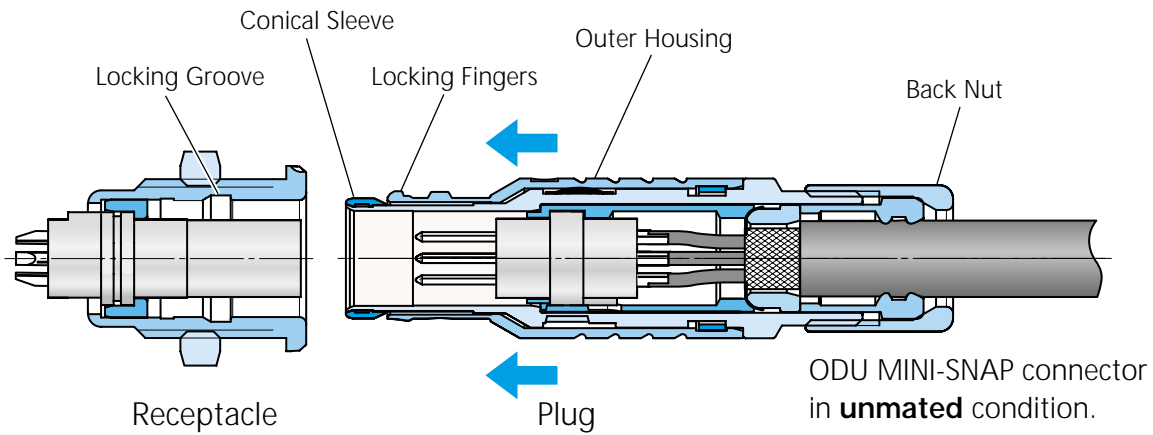


Series B - IP50 and IP68
FP-Locking Concept
Keying with Pin and Groove



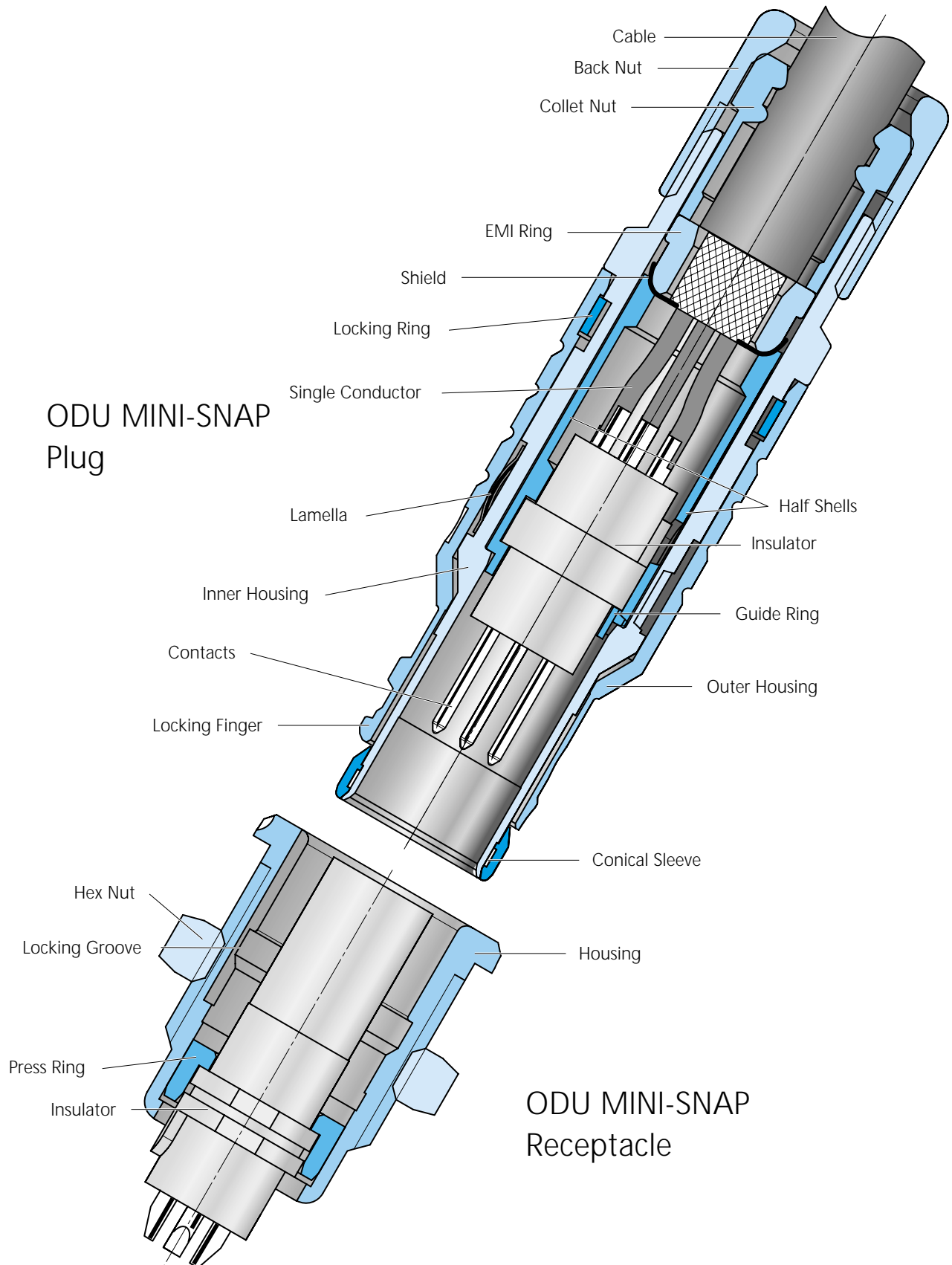
The Push-Pull Locking Principle: FP

with Locking Fingers like W.W.Fischer™ (see page 9)



ODU MINI-SNAP

with FP-Locking Scheme in Cross Section



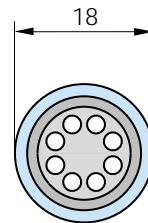
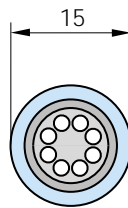
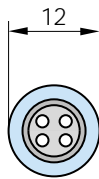
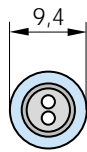
Available Housing Sizes

(Scale 1 : 1)

OD = Outside Diameter (Plug)

S = Size

OD:



S:

0

1

2

3

Part number key

The Part Number Key

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	
			B			-									-				

- 1. Type **A** = Break-Apart Plug
G = Receptacle
K = In-Line Receptacle
S = Straight Plug
W = Right-Angle Plug
- 2. Style **1 - 9** and **A - Z**
X = Special
- 3. Size **0 - 3**
- 4. Series **B**
- 5. Coding (Page 66)
- 6. Material/Surface - Housing (Page 67)
- 7. empty
- 8. Material - Insulator (Page 72)
- 9. + 10. Contact Insert (Page 73 to 80)
e.g. 18-way = **18**
- 11. Contact Type/Surface (Page 81)
- 12. Contact Diameter (Page 81)
M = mixed arrangement
- 13. + 14. Term. Cross Section (Page 82)
14. for special Contact Configurations **9**
- 15. empty
- 16. + 17. Collet System (Page 68)
- 18. + 19. Cable Bend Relief (Page 69)

Example:

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
G	5	2	B	F	C	-	T	1	6	N	F	G	0	-	0	0	0	0

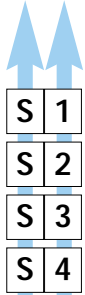
Receptacle - Style 5 - Size 2 - Series B - Coding 60' - Brass matt chromate Housing - PBT Insulator - 16pos. - Socket(crimp) 0,75 µm Au -Term. Cross Section AWG22

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
S	2	2	B	F	C	-	P	1	6	M	F	G	0	-	7	5	E	S

Plug - Style 2 - Size 2 - Series B - Coding 60' - Brass matt chromate Housing - PEEK Insulator - 16pos. - Pin (solder) 0,75 µm Au - Term. Cross Section AWG22 - Cable Diameter 7.1-7.5 -Blue Cable Bend Relief - Material Silicone

Part number key

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
			B			-								-				

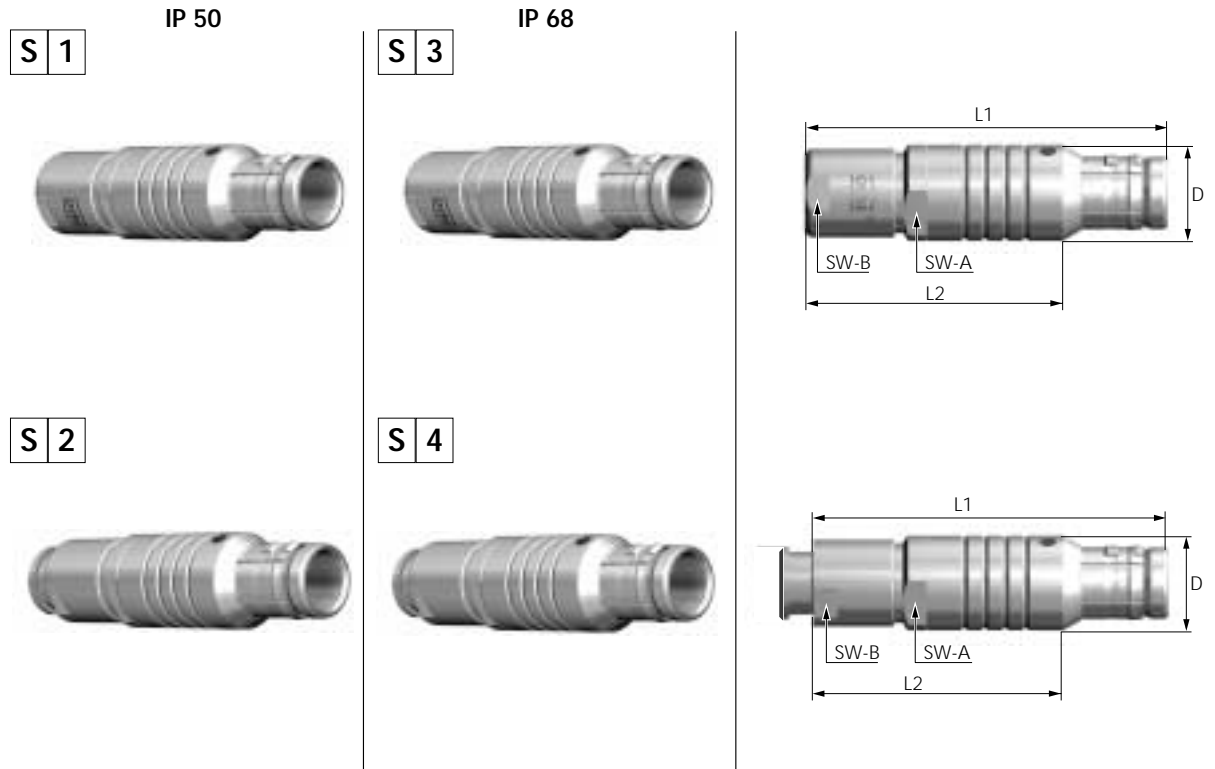


Straight Plug

(Suitable for all following receptacles and in-line receptacles)

- S 1** - IP 50 – with Standard Back Nut
- S 2** - IP 50 – with Back Nut for Cable Bend Relief*
- S 3** - IP 68 – watertight with Standard Back Nut
- S 4** - IP 68 – watertight with Back Nut for Cable Bend Relief*

Contact configuration from page 73



IP 50

Size	Dimensions in mm				
	L1	L2	D	SW-A	SW-B
0	~ 37	~ 28	9,4	8	7
1	~ 47	~ 35	12	10	10
2	~ 50	~ 38	15	13	12
3	~ 61	~ 46	18	16	15

IP 68

Size	Dimensions in mm				
	L1	L2	D	SW-A	SW-B
0	~ 40	~ 30	9,4	8	7
1	~ 49	~ 38	12	10	10
2	~ 53	~ 40	15	13	12
3	~ 62	~ 47	18	16	15

* Cable Bend Reliefs
(see page 69)

Part number key

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
			B			-								-				

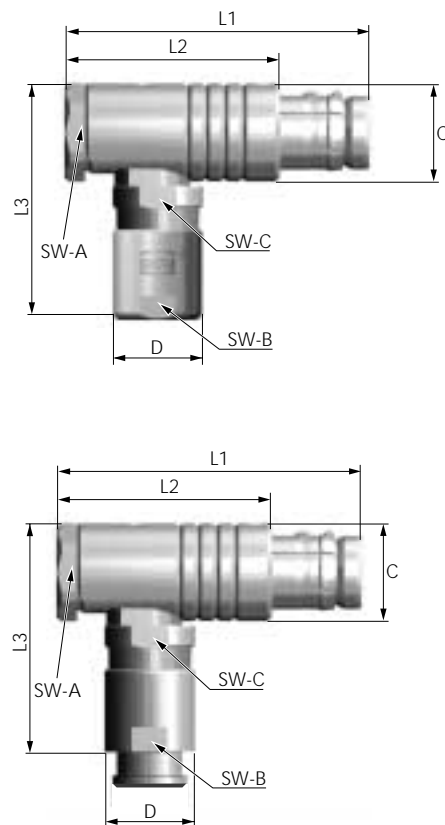


Right-Angle Plug

(Suitable for all following receptacles and in-line receptacles)

- W 1** - IP 50 – with Standard Back Nut
- W 2** - IP 50 – with Back Nut for Cable Bend Relief*
- W 3** - IP 68 – watertight with Standard Back Nut
- W 4** - IP 68 – watertight with Back Nut for Cable Bend Relief*

Contact configuration from page 73



Size	Dimensions in mm							
	L1	L2	L3	C	D	SW-A	SW-B	SW-C
IP 50 0	~ 33	24,3	~ 25	10	9	9	7	8
1	~ 37	31,5	~ 33	12	11	11	10	10
2	~ 45	34,2	~ 35	15	14	13,5	12	13
3	~ 50	34,4	~ 40	18	17	17	15	16

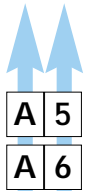
Size	Dimensions in mm							
	L1	L2	L3	C	D	SW-A	SW-B	SW-C
IP 68 0	~ 34	24,3	~ 30	12	9	10	7	8
1	~ 42	31,5	~ 32	12,5	11	11	10	10
2	~ 46	34,2	~ 37,5	16	14	14	12	13
3	~ 60	44,6	~ 41,5	18	17	16	15	16

* Cable Bend Reliefs
(see page 69)

Assembly Tools: 700.412.106.000.000

Part number key

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
				B		-								-				



Break-Apart-Plug

- A 5** - IP 68 – with Standard Back Nut
- A 6** - IP 68 – with Back Nut for Cable Bend Relief*

(Suitable for all following receptacles and in-line receptacles)

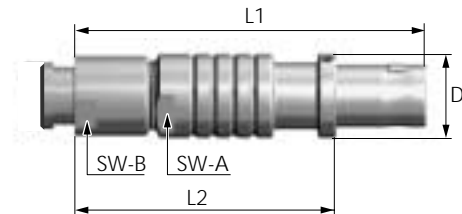
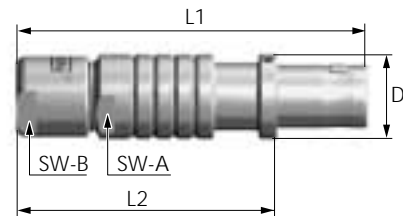
IP 68

A 5



Contact configuration from page 73

A 6



Size	Dimensions in mm				
	L1	L2	D	SW-A	SW-B
0	~ 39,5	~ 29,5	9,4	8	7

Connector can be separated by pulling the cable.

* **Cable Bend Reliefs**
(see page 69)

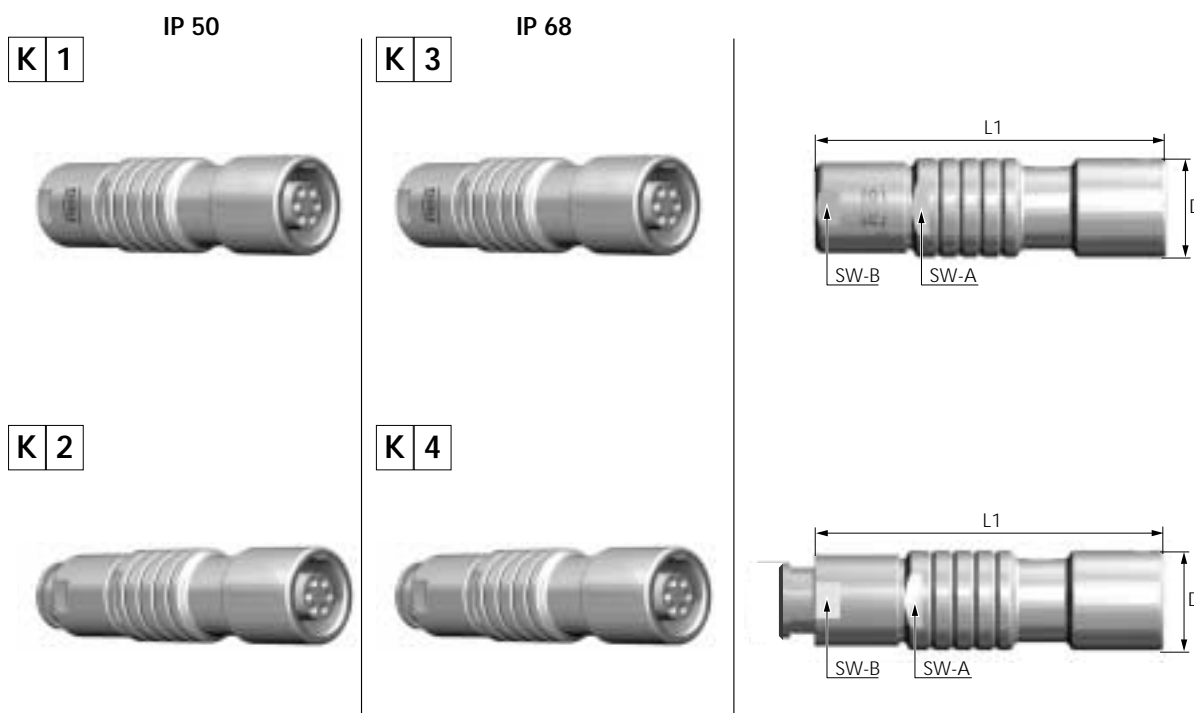
Part number key

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
			B			-								-				

In-Line Receptacle

- K 1** - IP 50 – with Standard Back Nut
- K 2** - IP 50 – with Back Nut for Cable Bend Relief*
- K 3** - IP 68 – watertight with Standard Back Nut
- K 4** - IP 68 – watertight with Back Nut for Cable Bend Relief*

Contact configuration from page 73



IP 50

Size	Dimensions in mm			
	L1	D	SW-A	SW-B
0	~ 36	10	8	7
1	~ 43	12	10	10
2	~ 50	15	13	12
3	~ 56	18	16	15

IP 68

Size	Dimensions in mm			
	L1	D	SW-A	SW-B
0	~ 39	10	8	7
1	~ 45	13	10	10
2	~ 50	16	13	12
3	~ 60	18	16	15

* **Cable Bend Reliefs**
(see page 69)

ODU MINI-SNAP In-line Receptacle connect to plug for cable-to-cable connection.

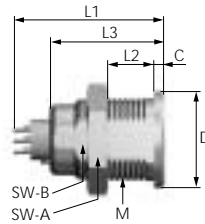
Part number key

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
				B			-								-			

¹⁾ L1 = Maximum Length incl. Contact Insert
²⁾ L3 = Length of Housing

↑ ↑
Receptacle

G 1 Style 1 – ODU MINI-SNAP RECEPTACLE IP 50, installation from front of panel

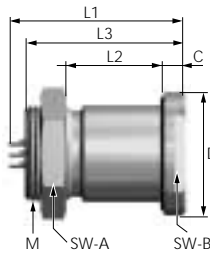


Technical Data

- IP 50
- anti-rotation feature
- contact configuration and PCB-Layout from page 73

Size	Dimensions in mm								Panel Cut-Out
	¹⁾ L1	L2	²⁾ L3	M	D	SW-A	SW-B	C	
0	~ 19,5	~ 9,0	14,5	9x0,5	10,0	11,0	8,2	1,5	SW 8,3 / Ø 9,1
1	~ 24,0	~ 8,0	16,5	12x1	14,0	14,0	10,0	1,5	SW 10,1 / Ø 12,1
2	~ 27,5	~ 10,0	18,5	15x1	18,0	17,0	13,5	2,0	SW 13,6 / Ø 15,1
3	~ 33,0	~ 13,0	22,5	18x1	22,0	22,0	16,5	2,0	SW 16,6 / Ø 18,1

G 2 Style 2 – ODU MINI-SNAP WATERTIGHT RECEPTACLE IP 68*, installation from front of panel



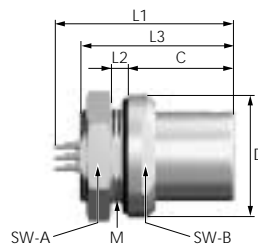
Technical Data

- IP 68 in reference to the end device and in mated condition
- contact configuration and PCB-Layout from page 73
- distance ring for wall-thickness adjustment, see page 102

Size	Dimensions in mm									Panel Cut-Out
	¹⁾ L1	³⁾ L2	²⁾ L3	M	D	SW-A	SW-B	C	d	
0	~ 22,5	8	18,5	9x0,5	14,5	11,0	11,0	3,0	10,0	Ø 10,1
1	~ 27,0	12	22,5	14x1	18,0	17,0	14,0	3,0	14,0	Ø 14,1
2	~ 29,0	9	23,0	16x1	22,0	19,0	17,0	4,0	16,0	Ø 16,1
3	~ 32,0	12	26,5	20x1	26,0	25,0	24,0	4,0	20,0	Ø 20,1

³⁾ min. wallthickness without using a distance ring.

G 4 Style 4 – ODU MINI-SNAP WATERTIGHT RECEPTACLE IP 68*, installation from front of panel with low rear profile



Technical Data

- IP 68 in reference to the end device and in mated condition
- Anti-rotation feature
- contact configuration and PCB-Layout from page 73

Size	Dimensions in mm								Panel Cut-Out
	¹⁾ L1	L2	²⁾ L3	M	D	SW-A	SW-B	C	
0	~ 22,5	~ 4,5	18,5	9x0,5	14,5	11,0	12,0	12,0	SW 8,3 / Ø 9,1
1	~ 26,0	~ 4,0	22,5	14x1	18,0	17,0	14,0	15,5	SW 12,1 / Ø 14,1
2	~ 28,0	~ 4,5	23,0	16x1	21,0	19,0	17,0	15,5	SW 13,6 / Ø 16,1
3	~ 33,0	~ 6,0	26,5	18x1	24,0	22,0	20,0	16,0	SW 16,6 / Ø 18,1

*Reference: Potted Receptacle please see page 127 III

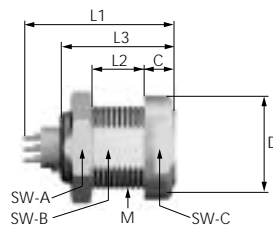
Part number key

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
				B			-								-			

¹⁾ L1 = Maximum Length incl. Contact Insert
²⁾ L3 = Length of Housing

Receptacle

G 5 **Style 5** – ODU MINI-SNAP **RECEPTACLE IP 50, CONTINUOUS THREAD**, installation from rear or front of panel. Front extension adjustable

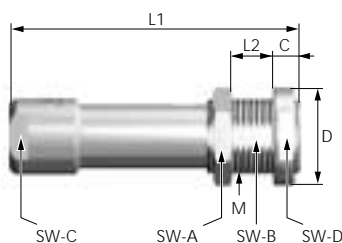


Technical Data

- IP 50
- Anti-rotation feature
- contact configuration and PCB-Layout from page 73

Size	Dimensions in mm									Panel Cut-Out
	¹⁾ L1	L2	²⁾ L3	M	D	SW-A	SW-B	SW-C	C	
0	~ 19,5	~ 8,0	14,5	9x0,5	11,5	11,0	8,2	10,0	2,5	SW 8,3 / Ø 9,1
1	~ 24,0	~ 8,0	16,5	12x1	15,0	14,0	10,0	13,0	4,0	SW 10,1 / Ø 12,1
2	~ 27,5	~ 10,0	18,5	15x1	20,0	17,0	13,5	17,0	4,0	SW 13,6 / Ø 15,1
3	~ 33,0	~ 14,0	22,5	18x1	23,0	22,0	16,5	20,0	5,0	SW 16,6 / Ø 18,1

G 6 **Style 6** – ODU MINI-SNAP **RECEPTACLE IP 50 WITH STRAIN RELIEF, without flange, with two nuts**, installation from rear or front of panel

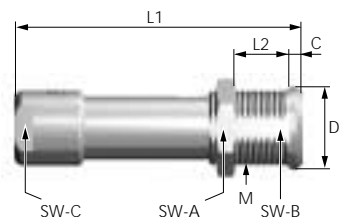


Technical Data

- IP 50
- Anti-rotation feature
- contact configuration from page 73

Size	Dimensions in mm									Panel Cut-Out
	L1	L2	M	D	SW-A	SW-B	SW-C	SW-D	C	
0	~ 36,0	~ 6,0	9x0,5	11,5	11,0	8,2	7,0	10,0	2,5	SW 8,3 / Ø 9,1
1	~ 43,3	~ 4,0	12x1	15,0	14,0	10,5	10,0	13,0	4,0	SW 10,6 / Ø 12,1
2	~ 49,0	~ 7,0	15x1	20,0	17,0	13,5	12,0	17,0	4,0	SW 13,6 / Ø 15,1

G 7 **Style 7** – ODU MINI-SNAP **RECEPTACLE IP 50, WITH STRAIN RELIEF**, installation from front of panel



Technical Data

- IP 50
- Anti-rotation feature
- contact configuration from page 73

Size	Dimensions in mm								Panel Cut-Out
	L1	L2	M	D	SW-A	SW-B	SW-C	C	
1	~ 44,0	~ 7,5	12x1	14,0	14,0	10,5	10,0	1,5	SW 10,6 / Ø 12,1
3	~ 58,0	~ 12,0	18x1	22,0	22,0	16,5	15,0	2,0	SW 16,6 / Ø 18,1

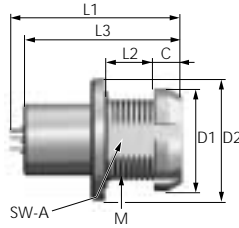
Part number key

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
				B			-								-			

¹⁾ L1 = Maximum Length incl. Contact Insert
²⁾ L3 = Length of Housing

Receptacle

G 8 Style 8 – ODU MINI-SNAP **WATERTIGHT RECEPTACLE IP 68***, with slotted nut, installation from rear of panel

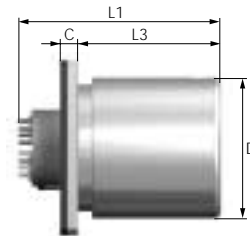
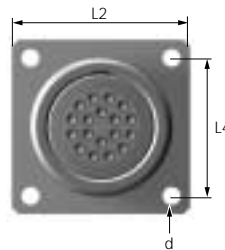


Technical Data

- IP 68 in reference to the end device and in mated condition
- Anti-rotation feature
- contact configuration and PCB-Layout from page 73
- nutdriver for slotted mounting nut, Page 112

Size	Dimensions in mm								Panel Cut-Out
	¹⁾ L1	L2	²⁾ L3	M	D1	D2	C	SW-A	
0	~ 22,5	~ 3,5	18,5	10x0,5	15,0	14,5	3,0	9	SW 9,1 / Ø 10,1
1	~ 26,0	~ 4,0	22,5	14x1	18,0	18,0	4,0	12	SW 12,1 / Ø 14,1
2	~ 29,0	~ 3,0	23,0	16x1	22,0	21,0	3,0	15	SW 15,1 / Ø 16,1
3	~ 33,0	~ 6,0	26,5	20x1	25,0	26,0	6,0	18	SW 18,1 / Ø 20,1

G 9 Style 9 –ODU MINI-SNAP **RECEPTACLE IP 50**, with mounting flange and flat washer



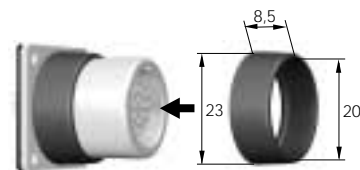
Size	Dimensions in mm						
	L1	L2	L3	L4	D	C	d
3	~ 30,0	~ 25,0	22,5	19,8	20,0	2,5	2,6

Technical Data

- IP 50
- Anti-rotation feature

Color Coding Bushing

Article-number	color	RAL-Nr.
703 130 208 965 000	black	90 05
703 130 207 965 000	grey	70 05
703 130 206 965 000	blue	50 03
703 130 205 965 000	green	60 02
703 130 204 965 000	yellow	10 18
703 130 203 965 000	white	90 10
703 130 202 965 000	red	30 02



*Reference: Potted Receptacle please see page 127 III.

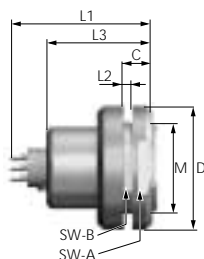
Part number key

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
				B			-							-				

¹⁾ L1 = Maximum Length incl. Contact Insert
²⁾ L3 =Length of Housing

Receptacle

G A **Style A** – ODU MINI-SNAP RECEPTACLE IP 50, with round nut, installation from rear of panel

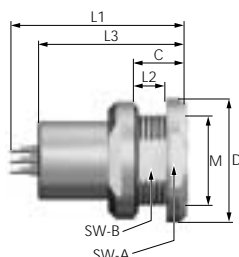


Technical Data

- IP 50
- Anti-rotation feature
- contact configuration and PCB-Layout from page 73

Size	Dimensions in mm								Panel Cut-Out
	¹⁾ L1	L2	²⁾ L3	M	D	SW-A	SW-B	C	
1	~ 26,0	~ 2,0	16,5	14x1	19,0	17,0	12,0	5,0	SW 12,1 / Ø 14,1
2	~ 29,0	~ 2,0	18,5	16x1	21,9	19,0	15,0	5,0	SW 15,1 / Ø 16,1
3	~ 33,0	~ 2,0	25,0	20x1	26,9	24,0	18,0	6,0	SW 18,1 / Ø 20,1

G D **Style D** – ODU MINI-SNAP RECEPTACLE IP 68*, with round nut, installation from rear of panel

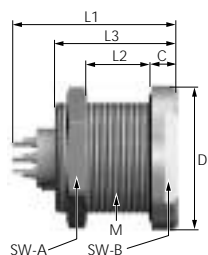


Technical Data

- IP 68 in reference to the end device and in mated condition
- Anti-rotation feature
- contact configuration and PCB-Layout from page 73

Size	Dimensions in mm								Panel Cut-Out
	¹⁾ L1	L2	²⁾ L3	M	D	SW-A	SW-B	C	
0	~ 22,5	~ 4,0	18,5	10x0,5	14,5	12,0	9,0	6,5	SW 9,1 / Ø 10,1
1	~ 26,0	~ 5,0	22,5	14x1	19,0	17,0	12,0	8,0	SW 12,1 / Ø 14,1
2	~ 29,0	~ 5,0	23,0	16x1	21,8	19,0	15,0	8,0	SW 15,1 / 16,1
3	~ 31,5	~ 7,0	26,5	20x1	26,9	24,0	18,0	11,0	SW 18,1 / 20,1

G E **Style E** – ODU MINI-SNAP RECEPTACLE IP 68*, installation from front of panel



Technical Data

- IP 68 in mated condition
- contact configuration and PCB-Layout from page 73

Size	Dimensions in mm								Panel Cut-Out
	L1	L2	L3	M	D	SW-A	SW-B	C	
0	~ 20,0	~ 5,5	14,5	11x1	15,5	13	12	3	Ø 11,1
1	~ 24,0	~ 10,0	16,5	14x1	18,0	17	14	3	Ø 14,1
2	~ 25,5	~ 11,0	18,5	17x1	22,0	19	17	4	Ø 17,1

*Reference: Potted Receptacle please see page 127 III

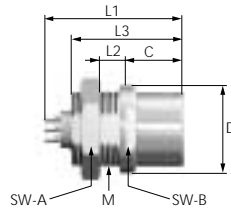
Part number key

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
				B			-								-			

¹⁾ L1 = Maximum Length incl. Contact Insert
²⁾ L3 = Length of Housing

Receptacle

G H Style H – ODU MINI-SNAP RECEPTACLE IP 50, installation from front of panel

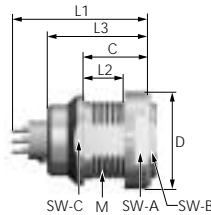


Technical Data

- IP 50
- Anti-rotation feature
- contact configuration and PCB-Layout from page 73

Size	Dimensions in mm								Panel Cut-Out
	¹⁾ L1	L2	²⁾ L3	M	D	SW-A	SW-B	C	
0	~ 21,5	~ 3,5	15,0	9x0,5	11,5	11,0	10,0	9,0	SW 8,3 / Ø 9,1
1	~ 24,0	~ 4,5	17,5	12x1	14,0	14,0	12,0	10,0	SW 10,6 / Ø 12,1
2	~ 26,0	~ 6,0	19,5	15x1	18,0	17,0	16,0	11,0	SW 13,6 / Ø 15,1

G K Style K – ODU MINI-SNAP RECEPTACLE IP 50, with round nut, installation from rear of panel

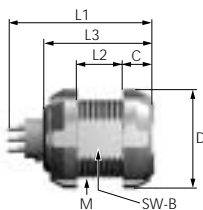


Technical Data

- IP 50
- Anti-rotation feature
- contact configuration and PCB-Layout from page 73

Size	Dimensions in mm									Panel Cut-Out
	¹⁾ L1	L2	²⁾ L3	M	D	SW-A	SW-B	SW-C	C	
0	~ 19,5	~ 3,8	14,5	9x0,5	11,5	10,0	8,2	9,0	6,3	SW 8,3 / Ø 9,1
1	~ 24,0	~ 7,0	16,5	12x1	15,0	13,0	10,5	13,0	11,0	SW 10,6 / Ø 12,1
2	~ 27,5	~ 5,0	18,5	15x1	20,0	17,0	13,5	15,0	9,0	SW 13,6 / Ø 15,1
3	~ 30,5	~ 8,0	22,5	18x1	22,8	20,0	16,5	20,0	12,0	SW 16,6 / Ø 18,1

G Q Style Q – ODU MINI-SNAP RECEPTACLE IP 50, CONTINUOUS THREAD, (see Style 5, but 2 special nuts) installation from rear or front of panel. Extension in front of panel is adjustable

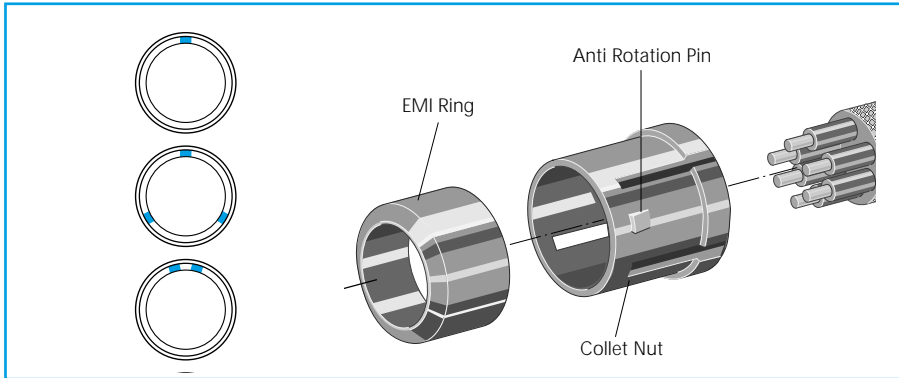


Technical Data

- IP 50
- Anti-rotation feature
- contact configuration and PCB-Layout from page 73
- nutdriver for slotted mounting nut, see page 112

Size	Dimensions in mm							Panel Cut-Out
	¹⁾ L1	L2	²⁾ L3	M	D	SW-B	C	
0	~ 19,5	~ 7,0	14,5	9x0,5	12,0	8,2	3,0	SW 8,3 / Ø 9,1
1	~ 24,0	~ 7,0	16,5	12x1,0	15,0	10,0	4,0	SW 10,1 / Ø 12,1
2	~ 27,5	~ 8,0	18,5	15x1,0	19,0	13,5	4,0	SW 13,6 / Ø 15,1
3	~ 33,0	~ 10,0	22,5	18x1,0	23,0	16,5	5,0	SW 16,6 / Ø 18,1

Details for the Part Number Key:



Keying
Housing Materials / Surfaces
Collet System
Bend Protection Sleeves



Coding Series B

Part number key

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
			B			-								-				

	Angle	Receptacle Front View	Size			
			0	1	2	3
O	0°		●	●	●	●
A	30°		●	●	●	●
B	37,5°		○	○	●	○
C	45°		○	○	●	●
C	- 45°		●	●	○	○
F	60°		●	●	●	●
H	75°		○	○	●	●
J	90°		●	●	○	●
K	95°		○	○	●	●
M	100°		○	○	○	●
Q	120°		○	●	●	○
T	125°		○	○	○	●
V	135°		○	●	○	●
W	145°		○	○	●	○
Y	155°		●	●	○	○

● Standard
○ On request

Housing Materials / Surfaces

Part number key

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
			B			-								-				



C

Standard

Cu-alloy / matt chromate

Special materials and surfaces on request.

N

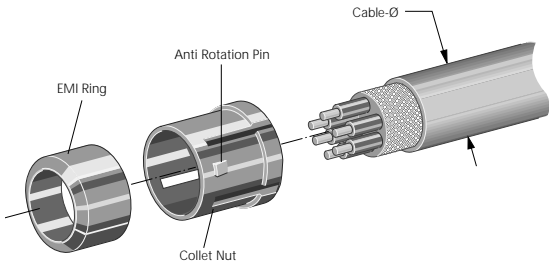
Cu-alloy / nickel

S

Cu-alloy / black chromate

Collet System

Part number key



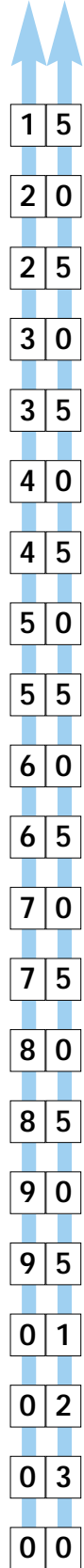
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
				B														

Insert: for all Plugs and In-Line Receptacles.

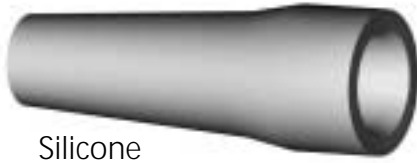
Application: **Collet nut** for strain relief,
EMI ring for conductive path

○ This diameters are not deliverable for applications in IP 68.

Cable diameter in mm	Size			
	0	1	2	3
> 1,0 - 1,5	●	●		
> 1,5 - 2,0	●	●		
> 2,0 - 2,5	●	●	●	
> 2,5 - 3,0	●	●	●	
> 3,0 - 3,5	●	●	●	●
> 3,5 - 4,0	●	●	●	●
> 4,0 - 4,5	●	●	●	●
> 4,5 - 5,0	●	●	●	●
> 5,0 - 5,5		●	●	●
> 5,5 - 6,0		●	●	●
> 6,0 - 6,5		●	●	●
> 6,5 - 7,0		●	●	●
> 7,0 - 7,5		○	●	●
> 7,5 - 8,0			●	●
> 8,0 - 8,5			●	●
> 8,5 - 9,0			●	●
> 9,0 - 9,5				●
> 9,5 - 10,0				●
> 10,0 - 10,5				●
> 10,5 - 11,5				○
without collet system				



Cable Bend Reliefs



Silicone

Temperature range

Silicone -50 °C up to +200 °C
short term up to +230 °C
autoclavable

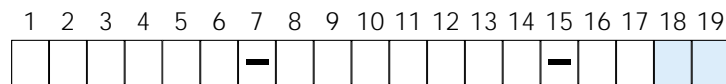


PUR

Temperature range

PUR -40 °C up to +80 °C
short term up to +120 °C

Part number key

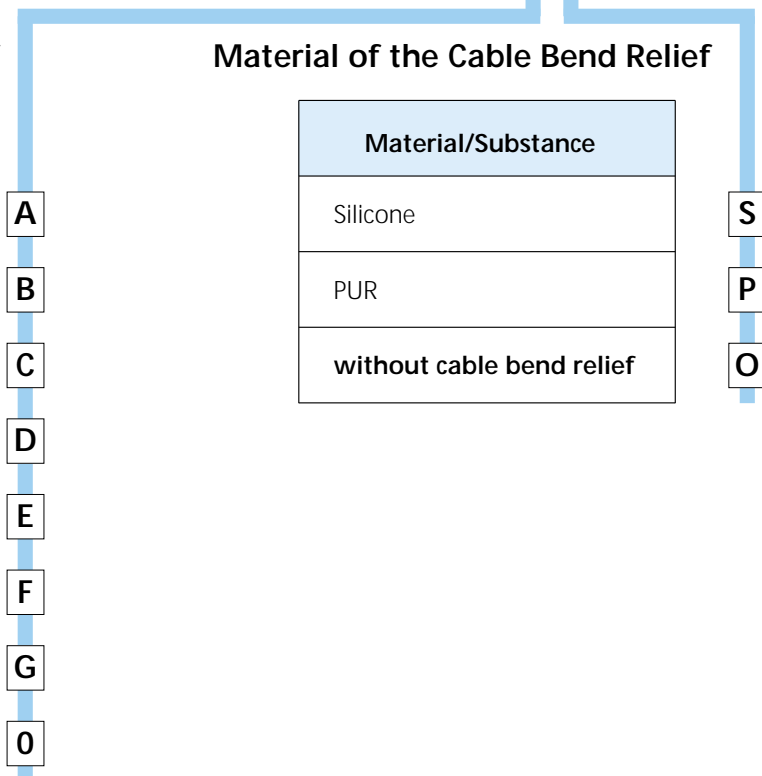


Color of the Cable Bend Relief

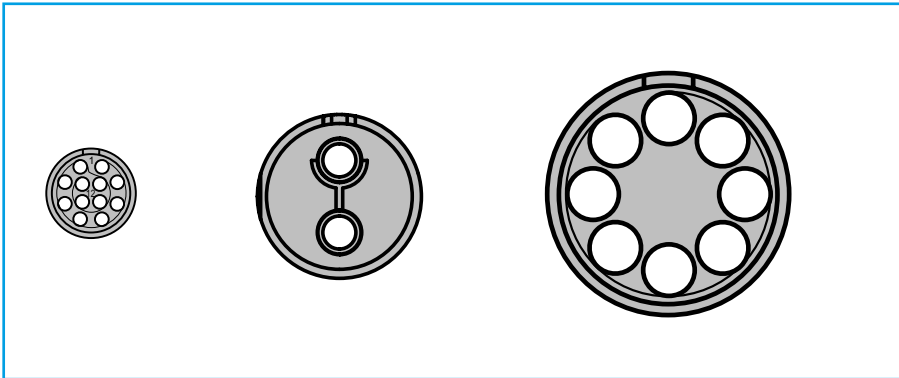
Color / RAL-number (similar)	
red	RAL 3020
white	RAL 9010
yellow	RAL 1016
green	RAL 6029
blue	RAL 5002
grey	RAL 7005
black	RAL 9005
without cable bend relief	

Material of the Cable Bend Relief

Material/Substance
Silicone
PUR
without cable bend relief



Inserts Series L, K, B



PCB and solder contacts are factory-installed in the insulation body.

Crimp contacts are shipped separately



Insulation Body Material

Part number key

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
						-								-			0	



T

PBT

P

PEEK

Additional materials on request

Turned Contacts

Article Number	PBT	PEEK
Solder Termination	✓	✓
Crimp Termination	✓	✓*
PCB Termination	✓	✓

✓ = available

* = PEEK insulators have crimp contacts with clip

Size 00

Part number key

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
		C				-								-				

Standard Contact Configuration	Size	Positions	Positions	Contact Ø mm	Nominal Signal Contact Current Load in A (Derating Factor see page 130)	Test Voltage acc. VDE 0627:1986-06 (kVeff)	Test Voltage acc. SAE AS13441:1998 method 3001.1 (kVeff)	Nominal Voltage acc. SAE AS13441:1998 method 3001.1 (kVrms) ¹⁾	Termination			View on termination side	
									Solder	Crimp (tools for assembling see page 106)	Print (PCB Layout see page 84)	Pin Part	Socket
C		0	2	0,5	5	0,750	1,100	0,366	●	●			
C		0	3	0,5	5	0,750	1,100	0,366	●	●			
C		0	4	0,5	5	0,750	0,900	0,300	●	●			

Attention: Inserts in Size 00 are only in PEEK available.

1) Nominal Voltage acc. SAE AS 13441:1998 method 3001.1 meet the MIL-STD 1344, method 3001, Test acc. IEC 60512 test 4a.
Method of calculation, utilization warning and Proposals see page 129

Size 0

Part number key

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
		0				-								-				

	Size	Positions	Positions	Contact Ø mm	Nominal Signal Contact Current Load in A (Derating factor see page 130)	Test Voltage acc. VDE 0627:1986-06 (kVeff)	Test Voltage acc. SAE AS13441:1998 method 3001.1 (kVeff)	Nominal Voltage acc. SAE AS13441:1998 method 3001.1 (kVrms) ¹⁾	Termination			View on termination side	
									Solder	Crimp (tools for assembling see page 106)	Print (PCB Layout see page 84)	Pin Part	Socket
Standard Contact Configuration	0	0 2		0,9	10	0,875	1,500	0,500	●	●	●		
	0	* 0 3		0,9	10	0,875	1,200	0,400	●	●	●		
	0	0 4		0,7	7	0,875	0,900	0,300	●	●	●		
	0	* 0 5		0,7	7	0,750	1,100	0,366	●	●	●		
	0	* 0 6		0,5	5	0,750	0,900	0,300	●		●		
	0	0 7		0,5	5	0,750	0,900	0,300	●		●		
	0	0 9		0,5	5	0,750	0,600	0,200	●		●		

* Please note that these inserts are only available in PEEK.

1) Nominal Voltage acc. SAE AS 13441:1998 method 3001.1 meet the MIL-STD 1344, method 3001, Test acc. IEC 60512 test 4a. Method of calculation, utilization warning and Proposals see page 129.

Size 1

Part number key

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
		1				-								-				

Standard Contact Configuration	Size	Positions		Contact Ø mm	Nominal Signal Contact Current Load in A (Derating Factor see page 130)	Test Voltage acc. VDE 0627:1986-06 (kVeff)	Test Voltage acc. SAE AS13441:1998 method 3001.1 (kVeff)	Nominal Voltage acc. SAE AS13441:1998 method 3001.1 (kVrms) ¹⁾	Termination			View on termination side	
		0	2						Solder	Clamp (tools for assembling see page 106)	Print (PCB Layout see page 85)	Pin part	Socket
	1	0	2	1,3	14	1,000	1,650	0,550	●	●	●		
	1	0	3	1,3	14	1,000	1,500	0,500	●	●	●		
	1	0	4	0,9	10	0,875	1,500	0,500	●	●	●		
	1	0	5	0,9	10	0,875	1,350	0,450	●	●	●		
	1	0	6	0,7	7	0,875	1,200	0,400	●	●	●		
	1	0	7	0,7	7	0,875	1,200	0,400	●	●	●		
	1	* 0	8	0,7	7	0,750	1,000	0,333	●		●		
	1	1	0	0,5	5	0,750	1,000	0,333	●		●		
	1	* 1	4	0,5	5	0,750	0,900	0,300	●		●		

* Please note that these inserts are only available in PEEK.

1) Nominal Voltage acc. SAE AS 13441:1998 method 3001.1 meet the MIL-STD 1344, method 3001, Test acc. IEC 60512 test 4a.
Method of calculation, utilization warning and Proposals see page 129

Size 2

Part number key

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
	2					-								-				

Standard Contact Configuration	Size	Positions		Contact Ø mm	Nominal Signal Contact Current Load in A (Derating factor see page 130)	Test Voltage acc. VDE 0627:1986-06 (kVeff)	Test Voltage acc. SAE AS13441:1998 method 3001.1 (kVeff)	Nominal Voltage acc. SAE AS13441:1998 method 3001.1 (kVrms) ¹⁾	Termination			View on termination side			
		0	2						Solder	Crimp (tools for assembling see page 106)	Print (PCB Layout see page 86)	Pin part	Socket		
														0	3
	2	0	2	2,0	22	1,500	2,100	0,700	●	●					
	2	0	3	1,6	17	1,500	2,400	0,800	●	●	●				
	2	0	4	1,3	14	1,500	1,950	0,650	●	●	●				
	2	0	5	1,3	14	1,250	1,800	0,600	●	●	●				
	2	0	6	1,3	14	1,000	1,500	0,500	●	●	●				
	2	0	7	1,3	14	1,000	1,800	0,600	●	●	●				
	2	0	8	0,9	10	1,000	1,500	0,500	●	●	●				
	2	1	0	0,9	10	1,000	1,500	0,500	●	●	●				
	2	1	2	0,7	7	0,875	1,350	0,450	●	●	●				

Continue next page

1) Nominal Voltage acc. SAE AS 13441:1998 method 3001.1 meet the MIL-STD 1344, method 3001, Test acc. IEC 60512 test 4a.
Method of calculation, utilization warning and Proposals see page 129

Size 2 (Continue)

Part number key

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
	2					-								-				

Standard Contact Configuration	Size	Positions		Contact Ø mm	Nominal Signal Contact Current Load in A (Derating Factor see page 130)	Test Voltage acc. VDE 0627:1986-06 (kVeff)	Test Voltage acc. SAE AS13441:1998 method 3001.1 (kVeff)	Nominal Voltage acc. SAE AS13441:1998 method 3001.1 (kVrms) ¹⁾	Termination			View on termination side	
		1	4						Solder	Crimp (tools for assembling see page 106)	Print (PCB Layout see page 86)	Pin part	Socket
2	2	1	4	0,7	7	0,875	1,200	0,400	●	●	●		
2	2	1	6	0,7	7	0,875	1,100	0,366	●	●	●		
2	2	1	8	0,7	7	0,750	0,900	0,300	●	●	●		
2	2	1	9	0,7	7	0,750	1,000	0,333	●	●	●		

1) Nominal Voltage acc. SAE AS 13441:1998 method 3001.1 meet the MIL-STD 1344, method 3001, Test acc. IEC 60512 test 4a.
Method of calculation, utilization warning and Proposals see page 129

Size 3

Part number key

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
		3				-								-				

Standard Contact Configuration	Size	Positions		Contact Ø mm	Nominal Signal Contact Current Load in A (Derating factor see page 130)	Test Voltage acc. VDE 0627:1986-06 (kVeff)	Test Voltage acc. SAE AS13441:1998 method 3001.1 (kVeff)	Nominal Voltage acc. SAE AS13441:1998 method 3001.1 (kVrms) ¹⁾	Termination			View on termination side	
		Solder	Crimp (tools for assembling see page 106)						Print (PCB Layout see page 87)	Pin part	Socket		
	3	0	4	2,0	22	1,500	1,650	0,550	●	●	●		
	3	0	7	1,6	17	1,000	1,800	0,600	●	●	●		
	3	0	8	1,3	14	1,000	1,650	0,550	●	●	●		
	3	1	0	1,3	14	1,000	1,350	0,450	●	●	●		
	3	1	4	0,9	10	0,875	1,350	0,450	●	●	●		
	3	1	6	0,9	10	0,875	1,350	0,450	●	●	●		
	3	1	8	0,9	10	0,875	1,350	0,450	●	●	●		
	3	2	0	0,7	7	1,000	1,100	0,366	●	●	●		
	3	2	2	0,7	7	0,875	1,100	0,366	●	●	●		
	3	2	6	0,7	7	0,875	1,000	0,333	●	●	●		
	3	3	0	0,7	7	0,750	0,900	0,300	●	●	●		

1) Nominal Voltage acc. SAE AS 13441:1998 method 3001.1 meet the MIL-STD 1344, method 3001, Test acc. IEC 60512 test 4a.
Method of calculation, utilization warning and Proposals see page 129

Size 4

Part number key

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	
		4				-									-				

Size	Positions		Contact Ø mm	Nominal Signal Contact Current Load in A (Derating Factor see page 130)	Test Voltage acc. VDE 0627:1986-06 (kVeff)	Test Voltage acc. SAE AS13441:1998 method 3001.1 (kVeff)	Nominal Voltage acc. SAE AS13441:1998 method 3001.1 (kVrms) ¹⁾	Termination			View on termination side	
								Solder	Crimp (tools for assembling see page 106)	Print (PCB Layout see page 87)	Pin part	Socket
4	0	7	2,0	22	1,500	1,650	0,550	●	●	●		
4	4	0	0,7	7	0,875	1,000	0,333	●	●	●		

Size 5

Part number key

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	
		5				-									-				

Size	Positions		Contact Ø mm	Nominal Signal Contact Current Load in A (Derating Factor see page 130)	Test Voltage acc. VDE 0627:1986-06 (kVeff)	Test Voltage acc. SAE AS13441:1998 method 3001.1 (kVeff)	Nominal Voltage acc. SAE AS13441:1998 method 3001.1 (kVrms) ¹⁾	Termination			View on termination side	
								Solder	Crimp (tools for assembling see page 106)	Print (PCB Layout and pin length on request)	Pin part	Socket
5	2	5	20 x 0,9 4 x 3,0 1 x 75 Ω Koax					●	●	●		

Special insert:
Electrical Datas on Request

1) Nominal Voltage acc. SAE AS 13441:1998 method 3001.1 meet the MIL-STD 1344, method 3001, Test acc. IEC 60512 test 4a.
Method of calculation, utilization warning and Proposals see page 129

Size 6

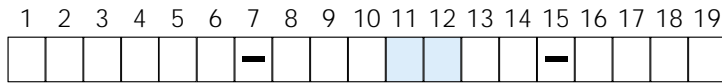
Part number key

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
		6				-								-				

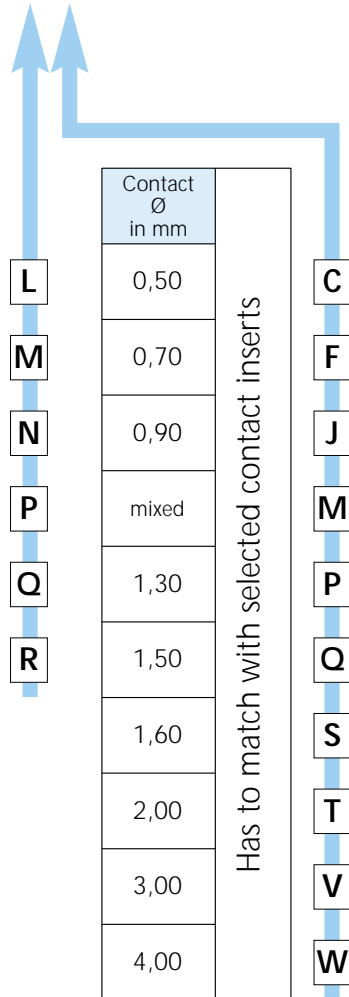
	BauSize	Positions	Positions	Contact Ø mm	Nominal Signal Contact Current Load in A (Derating Factor see page 122)	Test Voltage acc. VDE 0627:1986-06 (kVeff)	Test Voltage acc. SAE AS13441:1998 method 3001.1 (kVeff)	Nominal Voltage acc. SAE AS13441:1998 method 3001.1 (kVrms) ¹⁾	Termination			View on termination side	
									Solder	Crimp (Tools for assembling see page 100)	Print (PCB Layout and pin length on request)	Pin part	Socket
Standard Contact Configuration	6	0	2	2 x 4,0	Special insert: Electrical Datas on Request			●					
	6	0	5	5 x 75 Ω Koax	Special insert: Electrical Datas on Request			●					
	6	2	2	14 x 0,9 3 x 1,6 3 x 2,5 2 x 75 Ω Koax	Special insert: Electrical Datas on Request			●					

Contact Type / Contact Surface - Contact Diameter

Part number key



Type	Surface
Socket	L - 0,75 µm Au (min.)
Pin	L - 0,75 µm Au (min.)
Socket	C - 0,75 µm Au (min.)
Pin	C - 0,75 µm Au (min.)
Socket	P - 0,75 µm Au (min.)
Pin	P - 0,75 µm Au (min.)



- L = Solder termination
- C = Crimp termination
- P = PCB termination

Contact Termination Cross Sections

Part number key

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
						-								-			0	0

Crimp Contact

Contact Ø	Size	AWG	mm²	
0,7	0	24/26	0,25/0,15	D 0
0,7	0	22	0,38	G 0
0,9	0	24/26	0,25/0,15	D 0
0,9	0	22	0,38	G 0
0,7	1	24/26	0,25/0,15	D 0
0,7	1	22	0,38	G 0
0,9	1	24/26	0,25/0,15	D 0
0,9	1	20/22	0,50/0,38	H 0
1,3	1	18	1,0	L 0
0,7	2	24/26	0,25/0,15	D 0
0,7	2	22	0,38	G 0
0,9	2	24/26	0,25/0,15	D 0
0,9	2	20/22	0,50/0,38	H 0
1,3	2	18	1,0	L 0
0,7	3	24/26	0,25/0,15	D 0
0,7	3	22	0,38	G 0
0,7	3	28/30	0,08/0,05	C 0
0,9	3	24/26	0,25/0,15	D 0
0,9	3	20/22	0,50/0,38	H 0
1,3	3	18	1,0	L 0
1,6	3	16	-	N 0



Tools for crimping and their adjustments see page 106 to 111

Contact Termination Cross Sections

Part number key

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
						-								-			0	0

Solder Contact

Contact Ø	Term. Ø	Term. Cross	
		AWG	mm²
0,5	0,4	28	0,08
0,7	0,6	26	0,15
0,7	0,85	22	0,38
0,9	0,85	22	0,38
1,3	1,1	20	0,50
1,6	1,4	18	1,00
2,0	1,85	14	1,5
2,0	2,4	-	2,5



C	0
D	0
G	0
G	0
H	0
N	0
Q	0
S	0

PCB Contact

Contact Ø	Term. Ø
0,5	0,5
0,7	0,5
0,9	0,7
1,3	0,7
1,6	0,7
2,0	0,7

0	0
0	0
0	0
0	0
0	0
0	0

For mixed inserts

0	0
---	---

(Please provide details of termination cross section!)

Drilling Patterns for PCB-socket-contacts

	Straight	90° right-angled
Size 00		
2-way		
3-way		
4-way		

Drilling Patterns for PCB-socket-contacts

	Straight	90° right-angled
Size 0		
2-way		
3-way		
4-way		
5-way		
6-way		
7-way		
9-way		

Drilling Patterns for PCB-socket-contacts

	Straight	90° right-angled
Size 1		
2-way		
3-way		
4-way		
5-way		
6-way		
7-way		
8-way		
10-way		
14-way		

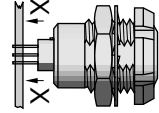
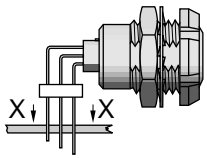
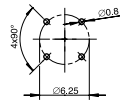
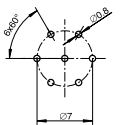
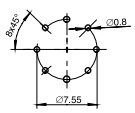
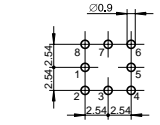
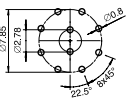
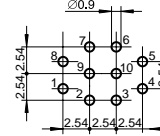
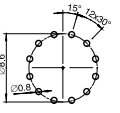
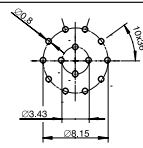
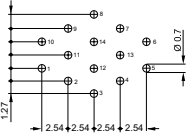
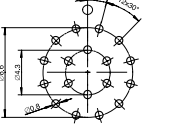
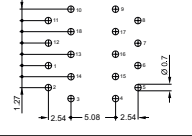
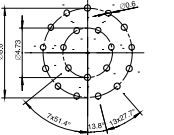
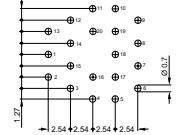
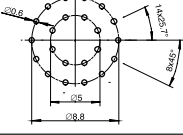
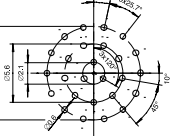
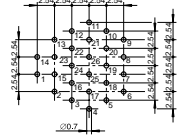
Drilling Patterns for PCB-socket-contacts

	Straight	90° right-angled
Size 2		
3-way		
4-way		
5-way		
6-way		
7-way		
8-way		
10-way		
12-way		
14-way		
16-way		

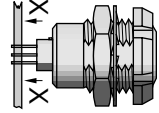
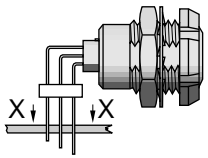
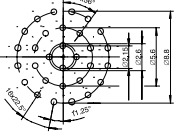
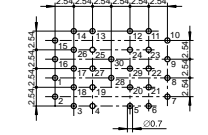
Drilling Patterns for PCB-socket-contacts

	Straight	90° right-angled
Size 2		
18-way		
19-way		

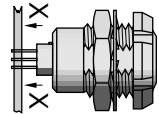
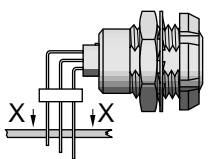
Drilling Patterns for PCB-socket-contacts

	Straight	90° right-angled
Size 3		
4-way		
7-way		
8-way		
10-way		
12-way		
14-way		
18-way		
20-way		
22-way		
26-way		

Drilling Patterns for PCB-socket-contacts

	Straight	90° right-angled
Size 3		
30-way		

Drilling Patterns for PCB-socket-contacts

	Straight	90° right-angled
Size 4		
40-way	