THE CIRCULAR CONNECTOR MEDI-SNAP® WITH PLASTIC AND METAL HOUSING

The ODU MEDI-SNAP® combines distinctive coding options with 2,000 / 5,000 mating cycles depending on the connector style. The efficient plastic connector is available both with user-friendly Push-Pull locking and the easy-to-release Break-Away function, which comes as a premolded plug & play solution. The ODU MEDI-SNAP® portfolio offers also a High-Voltage solution for up to 1,000 V AC / 16 A including a hot-plugging prevention.

Its space-saving product design enables top performance even in the smallest available construction space. Because of its plastic housing, this connector is up to 75 % lighter than comparable metal products. The great diversity makes the ODU MEDI-SNAP® perfectly suited to your requirements in medical technology, industrial electronics as well as digital test and measurement technology.

The IEC 60601-1:2012 (VDE 0750-1:2013-12) standard has special requirements. In detail it defines strict requirements in regards to protection against electrical shock of medical devices and their components for both patients and operators. The various protection measures (MOP: Means Of Protection) are described in detail from page 25 and 63.

VERSATILE CONFIGURATION OPTIONS

There are 8 color codings, up to 6 mechanical codings, 2 sizes, 3 termination types and a wide range of different contact inserts available.

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SUMMARY ODU MEDI-SNAP® PLASTIC HOUSING SIZE 1

The ODU MEDI-SNAP® with plastic housing in size 1 is coded by pin and groove. These circular connectors can have a variety of configurations: numerous styles of connectors, receptacles and in-line receptacles as well as various termination types, contact inserts and color codings.

- Coding over pin and groove
- 7 color codings
- 6 mechanical codings
- 2–14 contacts
- 3 termination types
- Contacts for solder, crimp and PCB termination
- A selection of numerous connectors as well as receptacles and in-line receptacles
- IP50 / IP64 and IP67 available in mated condition
- Up to 5,000 mating cycles

STRAIGHT PLUG – PUSH-PULL P. 26

2,000 mating cycles

IP50

S 1

S 2

IP64

S 4

RIGHT-ANGLED PLUG – PUSH-PULL P. 28

2,000 mating cycles

IP50

W 1

W 2

NEW!
Chapter **Break-Away Plugs** from page 52

BREAK-AWAY PLUG P. 29

5,000 mating cycles

IP67

A 5

For assembly instructions, please refer to our website: www.odu-connectors.com/downloads/assembly-instructions

IN-LINE RECEPTACLE P. 30

5,000 mating cycles

IEC 60601-1: 2 MOOP[1] and 1 MOPP[1]
IP50

K 1

K 2

RECEPTACLE P. 31

5,000 mating cycles

IEC 60601-1: 2 MOOP[1] and 1 MOPP[1]
IP50

G 1

G 5

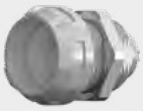
G 6
(On request)

G 8

RECEPTACLE P. 33

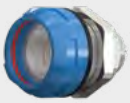
5,000 mating cycles

IEC 60601-1: 2 MOOP[1] and 2 MOPP[1]
IP50



G 9

IEC 60601-1: 2 MOOP[1] and 2 MOPP[1]
IP64 / IP67



G 4

G E

IEC 60601-1: 2 MOOP[1] and 2 MOPP[1]
IP64 / IP67 / IP68[2]

G A

ONE-PIECE RECEPTACLE P. 36

5,000 mating cycles

IEC 60601-1: 1 MOOP[1] and 0 MOPP[1]
IP50

G 2

IEC 60601-1:2012

MEANS OF OPERATOR PROTECTION (MOOP) / MEANS OF PATIENT PROTECTION (MOPP)

Table is valid for working voltage of medical device max. 250 V AC (degree of pollution 2).
For working voltage of connectors see insert configuration.

MOOP / MOPP	Clearance distance to the test finger mm	Creepage distances to the test finger mm	Test voltage V AC
1 MOOP	≥ 2	≥ 2.5	1,500
2 MOOP	≥ 4	≥ 5	3,000
1 MOPP	≥ 2.5	≥ 4	1,500
2 MOPP	≥ 5	≥ 8	4,000

The information refers to all plugs in mated condition on page 24.

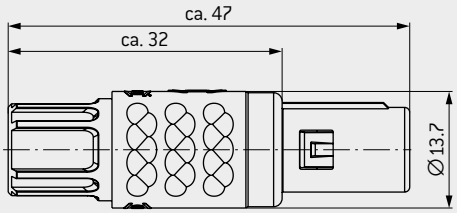
[1] As per IEC 60601-1:2012 (VDE 0750-1:2013-12) [2] IP68 in unmated condition

STRAIGHT PLUG

Push-Pull styles

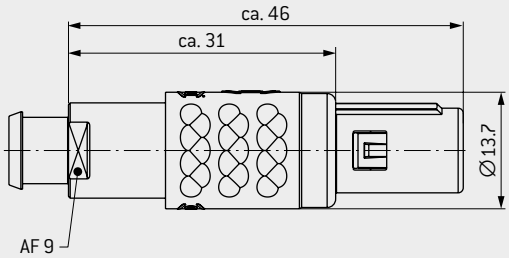
S 1 0 **STYLE: 1** IP50

With standard back nut



S 2 S **STYLE: 2** IP50

With back nut[1] for cable bend relief[2]



TECHNICAL DATA

- Contact configuration from page 38
- Explanation of the degrees of protection (see page 114)
- S1 with color coding

Size (1)

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

[1] Back nuts for cable bend reliefs have to be ordered in the same color as the connector housing. The color coding is based on the cable bend relief.
[2] Cable bend reliefs have to be ordered separately (see page 50).

RIGHT-ANGLED PLUG

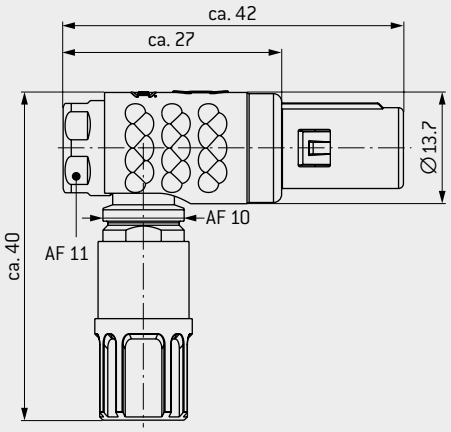
Push-Pull styles

W 1 0

STYLE: 1

IP50

With standard back nut

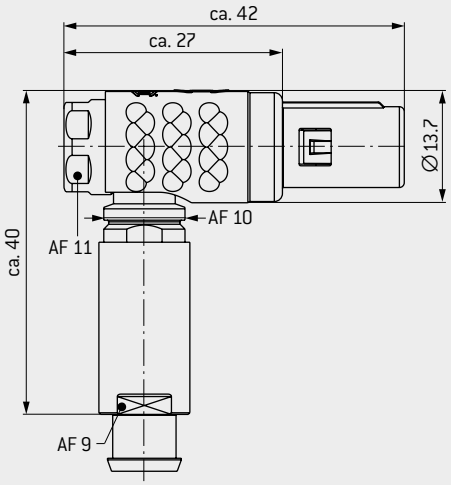


W 2 S

STYLE: 2

IP50

With back nut[1] for cable bend relief[2]



TECHNICAL DATA

- Contact configuration from page 38
- Explanation of the degrees of protection (see page 114)
- W1 with color coding

Size (1)

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

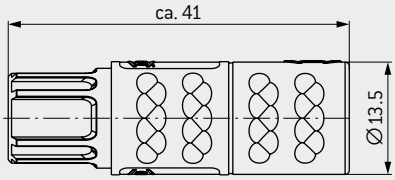
[1] Back nuts for cable bend reliefs have to be ordered in the same color as the connector housing. The color coding is based on the cable bend relief.
[2] Cable bend reliefs have to be ordered separately (see page 50).

IN-LINE RECEPTACLE

Suitable for creating a cable-cable connection

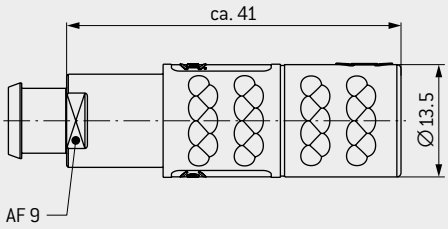
K 1 0 **STYLE: 1** — IP50

With standard back nut



K 2 S **STYLE: 2** — IP50

With back nut[1] for cable bend relief[2]



TECHNICAL DATA

- Contact configuration from page 38
- Explanation of the degrees of protection (see page 114)
- K1 with color coding

Size (1)

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

[1] Back nuts for cable bend reliefs have to be ordered in the same color as the connector housing. The color coding is based on the cable bend relief.
[2] Cable bend reliefs have to be ordered separately (see page 50).

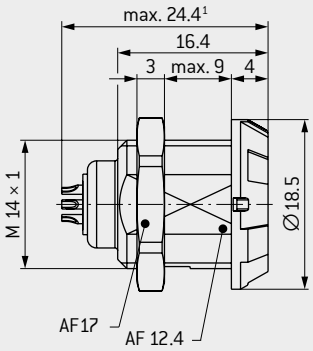
RECEPTACLE

G 1

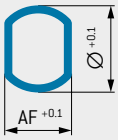
STYLE: 1

IP50

For front panel installation



PANEL CUT-OUT



AF : 12.5 mm
Ø : 14.1 mm

TECHNICAL DATA

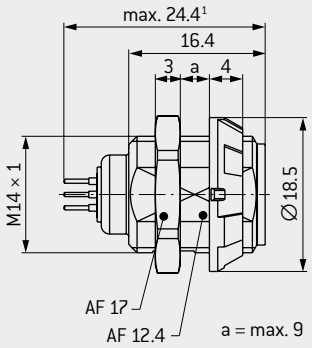
- Contact inserts and PCB layouts (see page 38)
- Explanation of the degrees of protection (see page 114)
- IP50 in reference to the tightness of the end device
- Anti-rotation feature
- With color coding

G 5

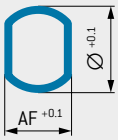
STYLE: 5

IP50

Receptacle with continuous thread, can be installed from front or rear; extension in front of panel is adjustable



PANEL CUT-OUT



AF : 12.5 mm
Ø : 14.1 mm

TECHNICAL DATA

- Contact inserts and PCB layouts (see page 38)
- Explanation of the degrees of protection (see page 114)
- IP50 in reference to the tightness of the end device
- Anti-rotation feature
- With color coding
- Right-angled PCB contact possible (see page 42)

Size (1)

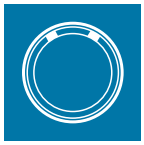
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
		1	M			–	P							–		0		0

[1] Depending on the insert

CODINGS

	Angle	Receptacle front view
0	0°	
A	40°	
C	60°	
E	80°	
H	170°	
J	205°	

HOUSING MATERIAL



		Housing material[1]	Biocompatible material[3]
7	Standard	Plastic, Gray (PSU)	●
8	Standard	Plastic, Black (PSU)	●
S	Standard	Plastic, Black (PEI), autoclavable[2]	not available
3	On request	Plastic, White (PSU)	not available
G	On request	Plastic, Gray (PEI), autoclavable[2]	●

[1] Styles A5 and G2 only available with housing material PSU
[2] More detailed information on the topic of "autoclaving" on page 123
[3] Biocompatibility acc. to DIN EN ISO 10993:
DIN EN ISO 10993-5:2009-10: Tests for in vitro cytotoxicity. Testing determines whether toxic components from the material cause cell damage.
DIN EN ISO 10993-10:2014-10: Tests for irritation and skin sensitization. The test for skin irritations and skin sensitization is designed to determine irritating and sensitizing characteristics of medical products.
DIN EN ISO 10993-11:2018-09: Tests for systemic toxicity.
DIN EN ISO 10993-18:2009-08: Chemical characterization of medical device materials within a risk management process.

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

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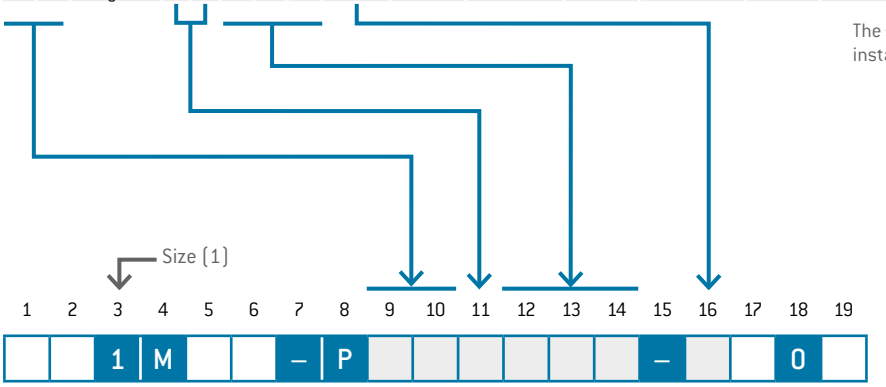
CONTACT INSERTS

Number of contacts		Contact type: Termination	Contact type: Socket	Contact type: Pin	Part number key insert			Contact style	Contact diameter mm	Single contact nominal current[1] A	Nominal current insert A	Clearance and creepage distance contact to contact mm	Test voltage[2] SAE kV DC	Test voltage[6,8] IEC kV RMS	Operating voltage[6,7] IEC V RMS	Termination diameter mm	Termination cross-section AWG	Termination cross-section mm²	View on termination area: Pin piece	View on termination area: Socket piece
0	2	Solder	L	M	P	N	0	0	1.3	15	15	1	1.6	0.67	38	1.4	18	1		
					P	H	0									1.1	20	0.5		
		Print straight[4]	Q		P	0	0			12	12	1.3	1.9	0.67	48	0.7	–	–		
		Angled[4]						A								0.8	–	–		
0	3[5]	Solder	L	M	P	N	9	0	1.3	15	15	0.9	1.6	0.67	37	1.4	18	1		
					P	H	9									1.1	20	0.5		
		Print straight[4]	Q		P	0	9			12	12	1.2	1.9	0.67	48	0.7	–	–		
		Angled[4]						A								0.8	–	–		
0	4	Solder	L	M	J	H	0	0	0.9	10	10	0.9	1.6	0.67	37	1.1	20	0.5		
					J	G	0			7.5	7.5	1.2	1.9	0.67	48	0.85	22	0.38		
		Crimp[3]	N	P	J	H	0			10	10	0.9	1.6	0.67	37	–	20–24	0.5–0.25		
					J	G	0									–	22–26	0.38–0.15		
		Print straight[4]	Q		J	0	0			7.5	7.5	1.2	1.9	0.67	48	0.7	–	–		
		Angled[4]						A								0.6	–	–		
0	5	Solder	L	M	J	H	0	0	0.9	10	7.5	0.5	1.35	0.67	25	1.1	20	0.5		
					J	G	0			7.5	5.6	0.8	1.6	0.67	35	0.85	22	0.38		
		Crimp[3]	N	P	J	H	0			10	7.5	0.5	1.35	0.67	25	–	20–24	0.5–0.25		
					J	G	0									–	22–26	0.38–0.15		
		Print straight[4]	Q		J	0	0			7.5	5.6	0.8	1.6	0.67	35	0.7	–	–		
		Angled[4]						A								0.6	–	–		
0	6	Solder	L	M	F	G	0	0	0.7	7.5	5.6	0.65	1.35	0.67	33	0.85	22	0.38		
					F	D	0			6	4.5	0.85	1.6	0.67	36	0.65	26	0.15		
		Crimp[3]	N	P	F	G	0			7.5	5.6	0.65	1.35	0.67	33	–	22–26	0.38–0.15		
		Print straight[4]	Q		F	0	0			6	4.5	0.85	1.6	0.67	36	0.5	–	–		
		Angled[4]						A								0.6	–	–		
0	7	Solder	L	M	F	G	0	0	0.7	7.5	4.9	0.65	1.35	0.67	33	0.85	22	0.38		
					F	D	0			6	3.9	0.85	1.6	0.67	36	0.65	26	0.15		
		Crimp[3]	N	P	F	G	0			7.5	4.9	0.65	1.35	0.67	33	–	22–26	0.38–0.15		
		Print straight[4]	Q		F	0	0			6	3.9	0.85	1.6	0.67	36	0.5	–	–		
		Angled[4]						A								0.6	–	–		
0	8	Solder	L	M	F	G	0	0	0.7	7.5	4.9	0.4	1.2	0.67	10	0.85	22	0.38		
					F	D	0			6	3.9	0.6	1.6	0.67	32	0.65	26	0.15		
		Crimp[3]	N	P	F	G	0			7.5	4.9	0.4	1.2	0.67	10	–	22–26	0.38–0.15		
		Print straight[4]	Q		F	0	0			6	3.9	0.6	1.6	0.67	32	0.5	–	–		
		Angled[4]						A								0.6	–	–		
0	9	Solder	L	M	C	D	0	0	0.5	6	3.9	0.45	1.2	0.67	16	0.65	26	0.15		
					C	C	0			4	2.6	0.65	1.35		33	0.45	28	0.08		
		Print straight[4]	Q		C	0	0									0.5	–	–		
		Angled[4]						A								0.5	–	–		
1	0	Solder	L	M	C	D	0	0	0.5	6	3.3	0.3	0.75	0.67	7.5	0.65	26	0.15		
					C	C	0			4	2.2	0.5	1.35	0.67	25	0.45	28	0.08		
		Print straight[4]	Q		C	0	0									0.5	–	–		
		Angled[4]						A								0.5	–	–		
1	2[5]	Solder	L	M	C	D	9	0	0.5	6	3.3	0.4	1.2	0.67	10	0.65	26	0.15		
					C	C	9			4	2.2	0.5			25	0.45	28	0.08		
		Print straight[4]	Q		C	0	9									0.5	–	–		
		Angled[4]						A								0.5	–	–		
1	4	Solder	L	M	C	D	0	0	0.5	6	3	0.3	0.75	0.67	7.5	0.65	26	0.15		
					C	C	0			4	2	0.5	1.2	0.67	25	0.45	28	0.08		
		Print straight[4]	Q		C	0	0									0.5	–	–		
		Angled[4]						A								0.5	–	–		



The socket is installed in the (in-line) receptacle; the pin is installed in the plug. **Reversed gender variants on request.**

[1] Derating factor, see page 122
[2] SAE AS 13441:2004 method 3001.1
[3] Tools for crimping and adjustment dimensions for crimping tool, see page 108
[4] PCB layouts (see page 41); print termination only available for receptacle styles 5 and 8
[5] Not compatible to competition
[6] IEC 60664-1:2007 (VDE 0110-1:2008-01): Overvoltage category III
[7] IEC 60664-1:2007 (VDE 0110-1:2008-01): Pollution degree 2
[8] Surge voltage

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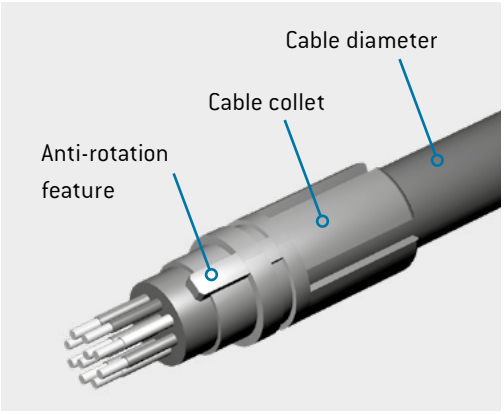
CABLE COLLET SYSTEM

For plugs, in-line receptacles as well as receptacles of style 6



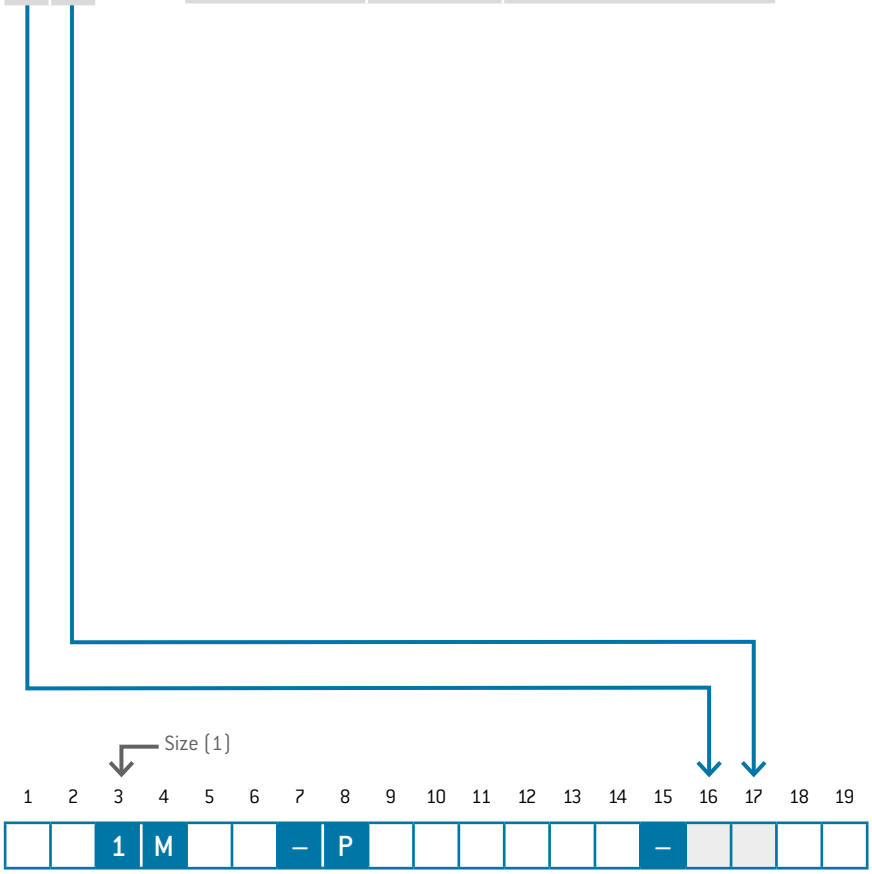
Cable diameter mm		Material	Part number
3	9	> 2.7–3.9	KM1.020.121.934.007
5	2	> 4.0–5.2	KM1.020.122.934.007
6	5	> 5.3–6.5	KM1.020.123.934.007
3	9	> 2.7–3.9	KM1.020.121.933.008
5	2	> 4.0–5.2	KM1.020.122.933.008
6	5	> 5.3–6.5	KM1.020.123.933.008

PSU

PEI

APPLICATION: for all plugs and in-line receptacles and for receptacle style 6

USE: cable collet for strain relief

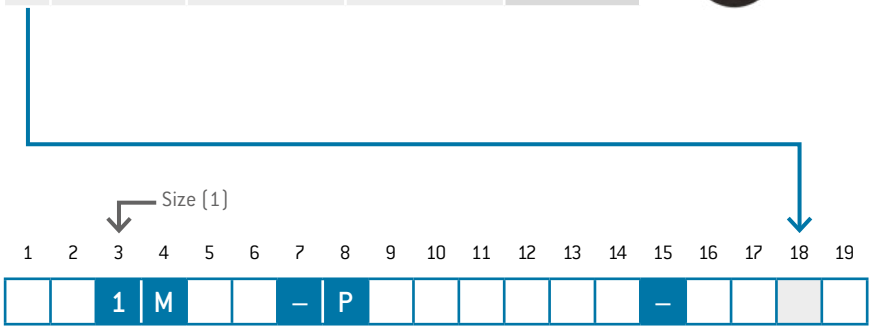


COLOR CODINGS

Color coding possibility of the back nut (for plugs, right-angled plugs, in-line receptacles) and the front nut (for receptacles style 6).

Back nuts for cable bend relief have to be ordered in the same color as the connector housing. **The color coding is based on the cable bend relief.**

	Color	Similar RAL systems		Material
		Design	Classic	
2	Red	030 40 40	3002	Plastic (PSU)
3	White	000 90 00	9003	
4	Yellow	095 90 59	1016	
5	Green	170 60 50	6032	
6	Blue	250 40 40	5019	
7	Gray	000 55 00	7045	Plastic (PSU/PEI)
8	Black	000 25 00	9004	



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SUMMARY ODU MEDI-SNAP® PLASTIC HOUSING SIZE 2

The ODU MEDI-SNAP® with plastic housing in size 2 is coded by pin and groove. These circular connectors can have a variety of configurations: numerous styles of connectors and receptacles as well as various termination types, contact inserts and color codings.

- Coding over pin and groove
- 8 color codings
- 3 mechanical codings
- 3–26 contacts
- 2 termination types
- Contacts for solder and PCB termination
- A selection of numerous connectors and receptacles
- IP50 and IP64 available in mated condition
- Up to 5,000 mating cycles

STRAIGHT PLUG – PUSH-PULL P. 64 — 2,000 mating cycles

IP50

S 1

IP50 / 64

S 4

NEW!
Chapter **Break-Away Plugs** from page 78

BREAK-AWAY PLUG P. 65 — 2,000 mating cycles

IP64

A 5

For assembly instructions, please refer to our website: www.odu-connectors.com/downloads/assembly-instructions

RECEPTACLE	P. 66	5,000 mating cycles
IEC 60601-1: 2 MOOP[1] and 1 MOPP[1] **IP50**		G 1
IEC 60601-1: 2 MOOP[1] and 2 MOPP[1] **IP64**		G 4
IEC 60601-1: 2 MOOP[1] and 1 MOPP[1] **IP50**		G 5

IEC 60601-1:2012

MEANS OF OPERATOR PROTECTION (MOOP) / MEANS OF PATIENT PROTECTION (MOPP)

Table is valid for working voltage of medical device max. 250 V AC (degree of pollution 2).
For working voltage of connectors see insert configuration.

MOOP / MOPP	Clearance distance to the test finger mm	Creepage distances to the test finger mm	Test voltage V AC
1 MOOP	≥ 2	≥ 2.5	1,500
2 MOOP	≥ 4	≥ 5	3,000
1 MOPP	≥ 2.5	≥ 4	1,500
2 MOPP	≥ 5	≥ 8	4,000

The information refers to all plugs in mated condition on page 56.

[1] Acc. IEC 60601-1:2012 (VDE 0750-1:2013-12)

STRAIGHT PLUG

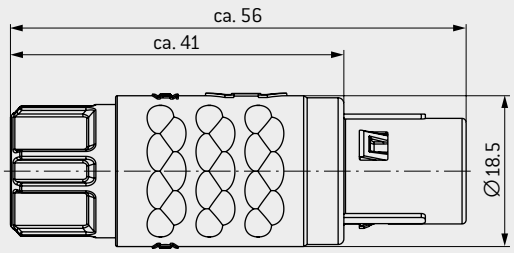
Push-Pull styles

S 1 0

STYLE: 1

IP50

With standard back nut



TECHNICAL DATA

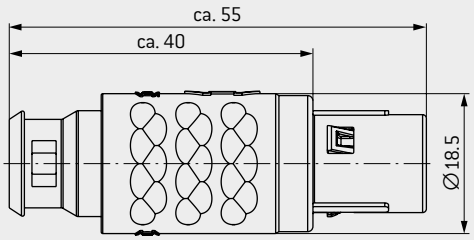
- Contact configuration from page 69
- Explanation of the degrees of protection (see page 114)
- Only available in Gray
- With color coding

S 4 S

STYLE: 4

IP50/64

With back nut[1] for cable bend relief[2]



TECHNICAL DATA

- Contact configuration from page 69
- Explanation of the degrees of protection (see page 114)
- IP50 in combination with receptacle style 1 and 5 (in mated condition)
- IP64 in combination with receptacle style 4 (in mated condition)
- Only available in Gray
- Alternative style S2 with IP50

Size (2)

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

[1] Back nuts for cable bend reliefs have to be ordered in the same color as the connector housing. The color coding is based on the cable bend relief.
[2] Cable bend reliefs have to be ordered separately (see page 76).

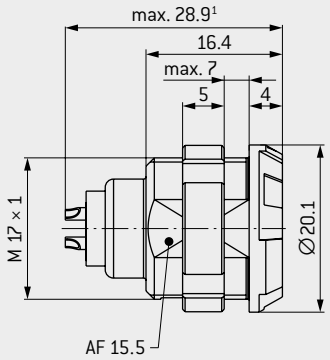
RECEPTACLE

G 1

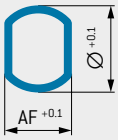
STYLE: 1

For front panel installation

IP50



PANEL CUT-OUT



AF : 15.6 mm
Ø : 17.1 mm

TECHNICAL DATA

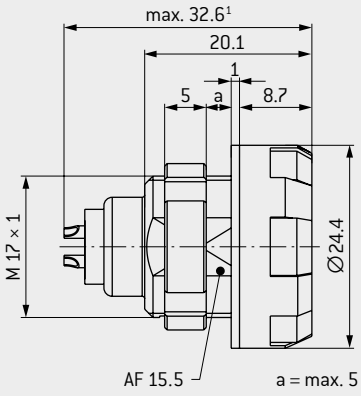
- Contact inserts and PCB layouts (see page 69)
- Explanation of the degrees of protection (see page 114)
- IP50 in reference to the tightness of the end device
- Anti-rotation feature
- Front flange in color of housing
- Color coding on request

G 4

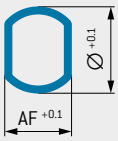
STYLE: 4

For front panel installation

IP64



PANEL CUT-OUT



AF : 15.6 mm
Ø : 17.1 mm

TECHNICAL DATA

- Contact inserts and PCB layouts (see page 69)
- Explanation of the degrees of protection (see page 114)
- IP50 in reference to the tightness of the end device
- IP64 in combination with connector style 4 in mated condition
- IP64 in combination with Break-Away Plug style 5 as overmolded version (see page 84)
- With color coding

Size (2)

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

[1] Depending on the insert

CODINGS

	Angle	Receptacle front view
C	60°	
E	80°	
F	90°	

Further codings on request

HOUSING MATERIAL

	Housing material	Biocompatible material[1]
7	Standard	Plastic, Gray (PSU)	●
8	On request	Plastic, Black (PSU)	●
9	On request	Plastic, Orange (PSU)	not available

Further housing materials on request

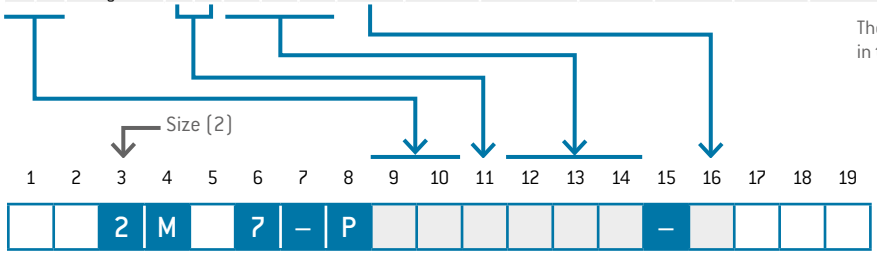
[1] Biocompatibility acc. to DIN EN ISO 10993:
DIN EN ISO 10993-5:2009-10: Tests for in vitro cytotoxicity. Testing determines whether toxic components from the material cause cell damage.
DIN EN ISO 10993-10:2014-10: Tests for irritation and skin sensitization. The test for skin irritations and skin sensitization is designed to determine irritating and sensitizing characteristics of medical products.
DIN EN ISO 10993-11:2018-09: Tests for systemic toxicity.
DIN EN ISO 10993-18:2009-08: Chemical characterization of medical device materials within a risk management process.

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

Table of contents

CONTACT INSERTS

Number of contacts		Contact type: Termination	Socket	Pin	Part number key insert			Contact style	Contact diameter mm	Single contact nominal current[1] A	Nominal current insert A	Clearance and creepage distance contact to contact mm	Test voltage[2] SAE kV DC	Test voltage[4,6] IEC kV RMS	Operating voltage[4,5] IEC V RMS	Termination diameter mm	Termination cross-section AWG	Termination cross-section mm²	View on termination area: Pin piece	Socket piece
0	4	Solder	L	M	P	N	0	0	1.3	15	15	1.6	3	0.67	48	1.4	18	1		
					P	H	0			12	12	2				1.1	20	0.5		
		Print straight[3] Angled[3]	Q		P	0	0	A								0.7	–	–		
																0.8	–	–		
1	2	Solder	L	M	F	G	0	0	0.7	7.5	3.75	0.8	1.6	0.67	37	0.85	22	0.38		
					F	D	0			6	3	1			48	0.65	26	0.15		
		Print straight[3] Angled[3]	Q		F	0	0	A								0.7	–	–		
																0.6	–	–		
1	6	Solder	L	M	F	G	0	0	0.7	7.5	3.75	0.5	1.6	0.67	25	0.85	22	0.38		
					F	D	0			6	3	0.7			34	0.65	26	0.15		
		Print straight[3] Angled[3]	Q		F	0	0	A								0.7	–	–		
																0.6	–	–		
1	9	Solder	L	M	F	G	0	0	0.7	7.5	3.4	0.5	1.35	0.67	25	0.85	22	0.38		
					F	D	0			6	2.7	0.7			34	0.65	26	0.15		
		Print straight[3] Angled[3]	Q		F	0	0	A								0.7	–	–		
																0.6	–	–		
2	6	Solder	L	M	C	C	0	0	0.5	4	1.6	0.5	1.35	0.67	25	0.45	28	0.08		
		Print straight[3] Angled[3]	Q		C	0	0	A								0.5	–	–		
																0.5	–	–		



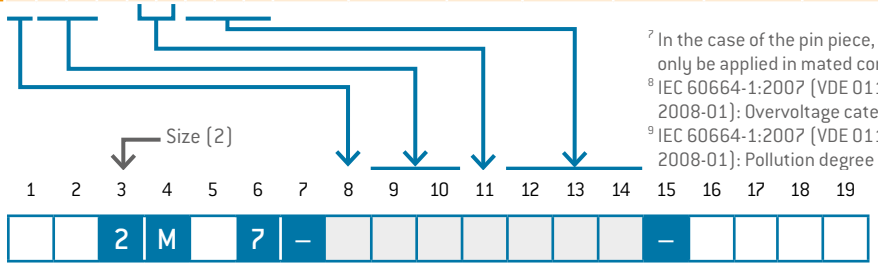
The socket is installed in the receptacle; the pin is installed in the plug. **Reversed gender variants on request.**

[1] Derating factor, see page 122
[2] SAE AS 13441:2004 method 3001.1
[3] PCB layouts, see page 70; print termination only available for receptacle style 5
[4] IEC 60664-1:2007 (VDE 0110-1:2008-01): Overvoltage category III
[5] IEC 60664-1:2007 (VDE 0110-1:2008-01): Pollution degree 2
[6] Surge voltage

SPECIAL-CONTACT INSERT

Insulator material[13]	Number of contacts		Contact type: Termination	Socket	Pin	Part number key insert			Contact diameter mm	Single contact nominal current A	Nominal current insert A	Clearance and creepage distance contact to contact: mated mm	unmated mm	Contact-to-contact voltage: Operating voltage[7,9] IEC VRMS	Test voltage[8,10] mated IEC kV	Test voltage[8,10] unmated IEC kV	Termination diameter mm	Termination cross-section AWG	Termination cross-section mm²	View on termination area: Pin piece	Socket piece
P	0	3[11]	Solder	L	M	T	S	0	1 × 2 (first mate last break) 2 × 2	22	22	4.7	2	230	5	3	2.4	12	2.5		
T	0	5	Solder	L[14]	M[15]	P	Q	9	1 × 1.3 (first mate last break)	16	12	9.9	3.2	600[12]	7.4[12]	5[12]	1.9	14	1.5		
						P	Q	L	2 × 1.3 (lagging)												
									2 × 1.3			13.6	3.2	1000[12]	9.9[12]	5[12]					

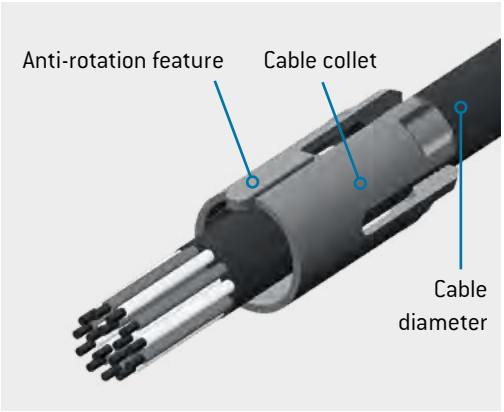
HIGH-VOLTAGE SOLUTION



[7] In the case of the pin piece, voltage may only be applied in mated condition.
[8] IEC 60664-1:2007 (VDE 0110-1: 2008-01): Overvoltage category III
[9] IEC 60664-1:2007 (VDE 0110-1: 2008-01): Pollution degree 3
[10] Surge voltage
[11] The socket is installed in the plug; the pin is installed in the receptacle.
[12] Voltage may only be applied to fully assembled and potted connectors in mated condition.
[13] T: PBT
[14] 4 x socket / 1 x pin
[15] 1 x socket / 4 x pin

CABLE COLLET SYSTEM

For plug parts

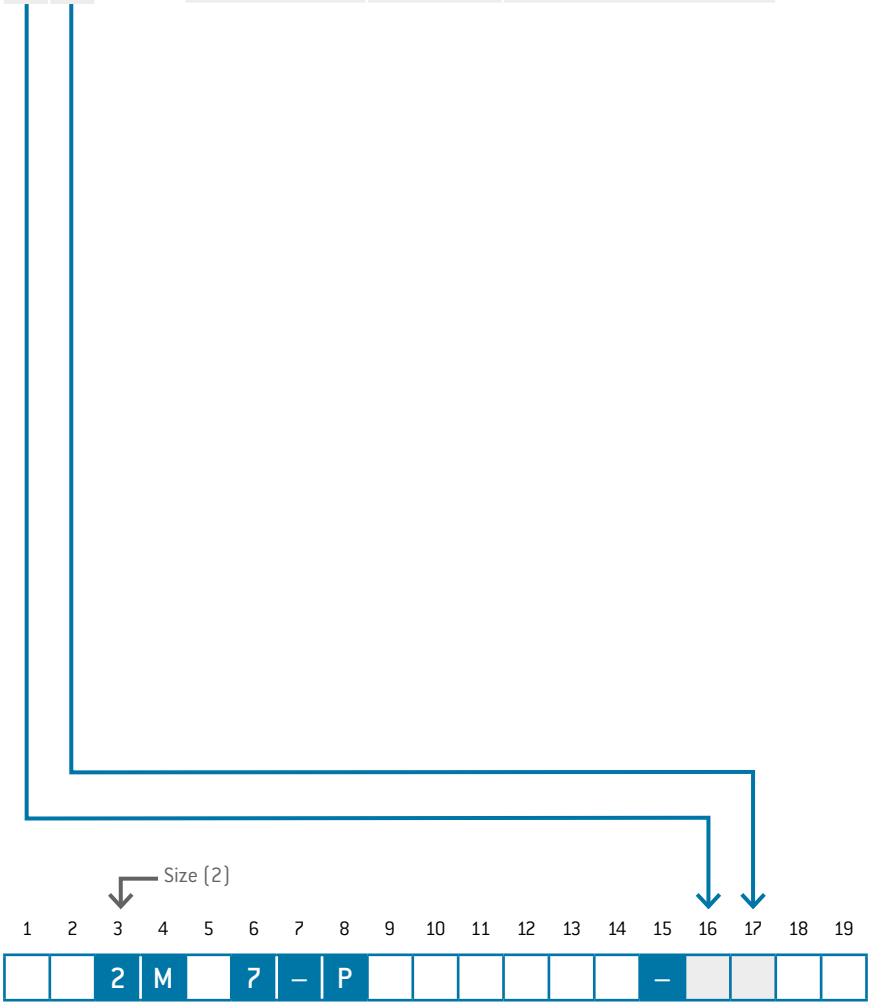


Cable diameter mm	Material	Part number
> 3.2 – 5.4	PSU	KM2.020.121.934.007
> 5.4 – 7.4		KM2.020.122.934.007
> 7.4 – 9.2		KM2.020.123.934.007

APPLICATION: for all plug parts

USE: cable collet for strain relief

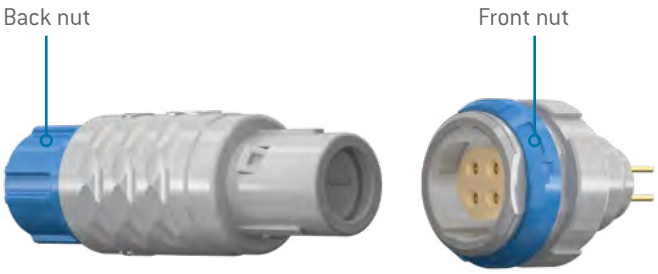
5	4
7	4
9	2



COLOR CODINGS

Color coding of the front nut only for receptacles G4 and G5
Color coding of the back nut only for straight plug S1

The color coding for plug style 4 is based on the cable bend relief.



	Color	Similar RAL systems		Material
		Design	Classic	
2	Red	030 40 40	3002	Plastic (PSU)
3	White	000 90 00	9003	
4	Yellow	095 90 59	1016	
5	Green	170 60 50	6032	
6	Blue	250 40 40	5019	
7	Gray	000 55 00	7045	
8	Black	000 25 00	9004	
9	Orange	050 60 80	2003	

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