

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.

SUMMARY ODU MEDI-SNAP® METAL HOUSING

The ODU MEDI-SNAP® with metal 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.

- Compatible with plastic finish
- Robust housing finish
- Coding over pin and groove
- 7 color codings
- 3 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 and IP64 available in mated condition
- Up to 5,000 mating cycles

NOTE

The ODU MEDI-SNAP® Break-Away connector A5 in size 1 is not generally mateable on metal receptacles.

STRAIGHT PLUG – PUSH-PULL		2,000 mating cycles	P. 90
IP50		S	1
		S	2
IP64		S	4

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

RECEPTACLE – PUSH-PULL		5,000 mating cycles	P. 91
IP50		G	1
		G	5
IP64 / IP68 ¹		G	A
IP50		G	K

IN-LINE RECEPTACLE		5,000 mating cycles	P. 93
IP50		K	5
		K	6

¹IP68 in reference to the tightness of the end device 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				

S	4	S	STYLE: 4	IP64
With back nut ¹ for cable bend relief ²				

TECHNICAL DATA

- Contact configuration from page 95
- Explanation of the degrees of protection (see page 114)
- Color coding for S1 possible
- IP64 in combination with receptacle style 4 (in mated condition)

Size [1]

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	
		1	M			C	-	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 104).

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 95)
- Explanation of the degrees of protection (see page 114)
- Anti-rotation feature
- IP50 in reference to the tightness of the end device

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

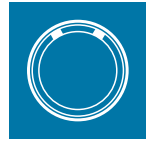
- Contact inserts and PCB layouts (see page 95)
- Explanation of the degrees of protection (see page 114)
- IP50 in reference to the tightness of the end device
- Anti-rotation feature
- With color coding
- Right-angled PCB contact possible (see page 98)

Size [1]

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

¹ Depending on the insert

CODINGS



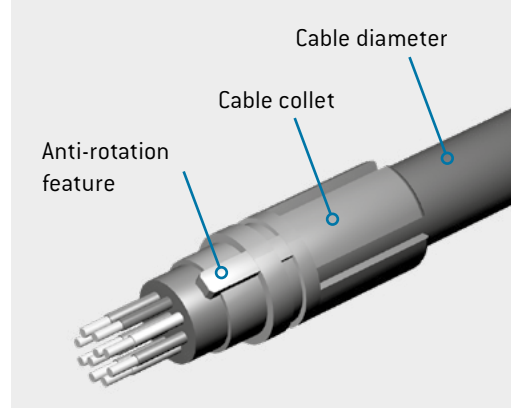
	Angle	Receptacle front view
0	0°	
A	40°	
C	60°	



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

CABLE COLLET SYSTEM

For plugs and in-line receptacles



Cable diameter mm	Material	Part number
> 2.7 – 3.9	PSU	KM1.020.121.934.007
> 4.0 – 5.2		KM1.020.122.934.007
> 5.3 – 6.5		KM1.020.123.934.007
> 2.7 – 3.9	PEI	KM1.020.121.933.008
> 4.0 – 5.2		KM1.020.122.933.008
> 5.3 – 6.5		KM1.020.123.933.008

APPLICATION: for all plugs and in-line receptacles

USE: cable collet for strain relief

3	9
5	2
6	5
3	9
5	2
6	5

Size [1]

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

COLOR CODINGS



Color coding of the front nut only for receptacles G5 and GK
 Color coding of the back nut only for straight plug S1 and in-line receptacle K5

The color coding here is based on the cable bend relief in combination with back nut made of brass.

Code C (brass chromate) always for straight plug S2 and receptacles G1 and GA



	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	Plastic (PSU/PEI)
C	Chrome matt	–	–	Brass

