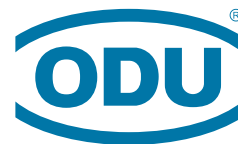


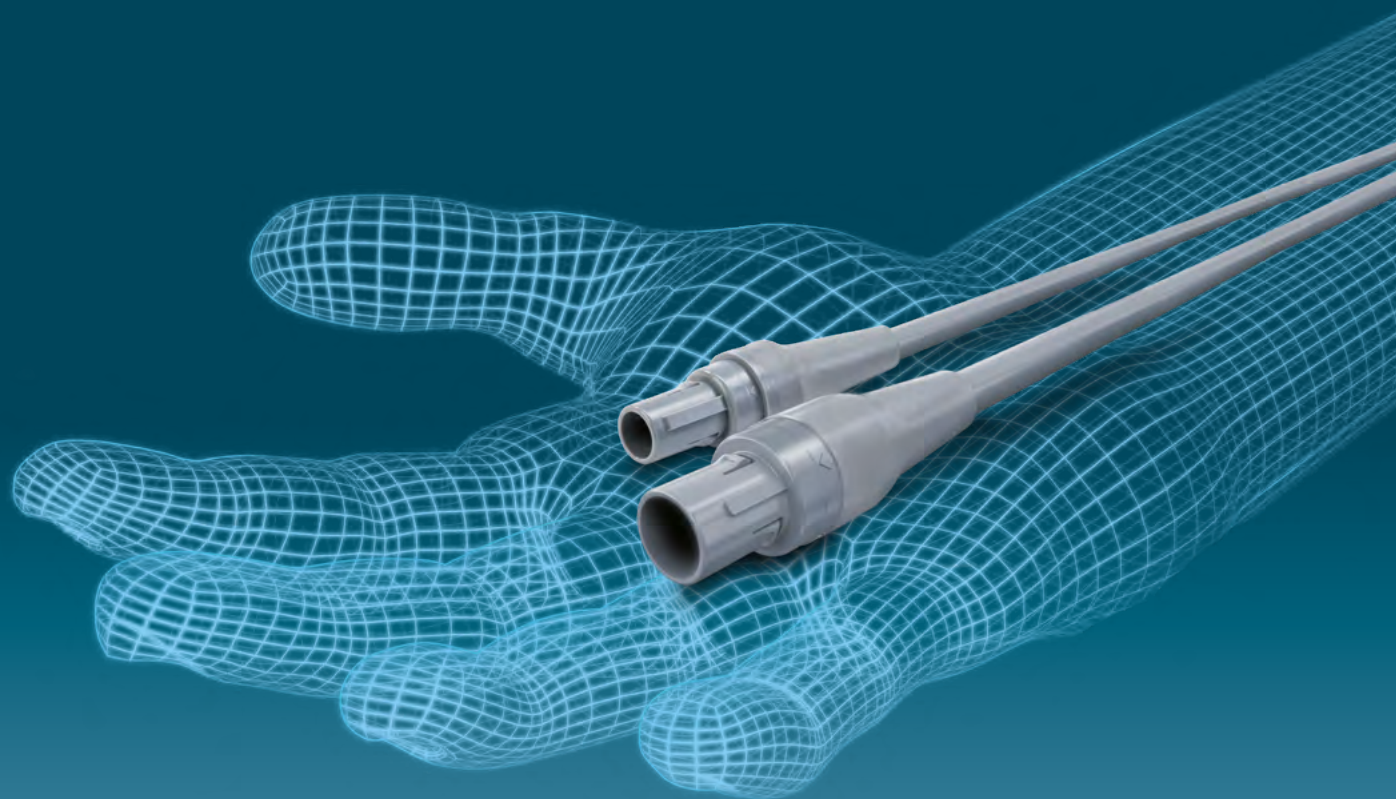
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# ODU MEDI-SNAP® BREAK-AWAY CONNECTORS

Overmolded system solutions for immediate use

OVERMOLDED  
PLASTIC CONNECTORS



ODU MEDI-SNAP®

ODU MINI-MED® / ODU MINI-SNAP® PC

[www.odu-usa.com](http://www.odu-usa.com)

# THE EFFICIENT PLASTIC SOLUTION

## ALL FROM ONE SOURCE



## THE SYSTEM APPROACH

The ODU MEDI-SNAP® portfolio features attachable Push-Pull connectors which allow for flexible assembly as well as plug and play overmolded connectors with Break-away function enabling almost effortless installation.

All solutions are capable of performing 2000 mating cycles while ensuring full functional and operational reliability. For applications which demand for higher mating cycles Break-Away connectors in size 1 as well as all In-line receptacles offer even an extended range of up to 5.000 mating cycles.

If required, the Break-Away function of the connector ensures an immediate unmating of the connection. This type of emergency release can be essential in critical situations, particularly in the area of medical technology.

In addition, the connection also meets the high requirements of power applications, for example, in the area of industry or digital test and measurement technology.

**Benefit from the ODU system approach – a combination of ease and efficiency. Connector and cable form a complete solution.**

You select from a variety of connectors and cables, and you receive the complete assembly by ODU. This especially saves valuable time - time that you can dedicate to other projects. This provides you with ODU quality from A to Z.

### PURE EFFICIENCY

- + Saves time thanks to premolded plug & play system solutions
- + Saves costs due to the high economic efficiency of manufacturing
- + One contact person for the complete system
- + Weight reduction enabled by plastic housing



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# PRECISELY TAILORED TO A WIDE VARIETY OF APPLICATIONS



## APPLICATION AREAS

### MEDICAL TECHNOLOGY

- Patient monitoring systems
- Respiratory devices
- a. o.

### INDUSTRIAL ELECTRONICS

- LED power applications
- Lighting industry
- a. o.

### DIGITAL TEST AND MEASUREMENT

- Power meters
- Universal measuring devices
- a. o.

## BREAK-AWAY FUNCTION

The ODU MEDI-SNAP® with Break-Away function was developed for connections that need to be mated or unmated in seconds.

One pull on the cable is enough to unmate the connection if necessary. If a specific

pull force is applied to the cable, the connector is held in place via the snap locks. When this force is exceeded, the snap-in connection will be unmated.

- Ergonomic mating
- Emergency release immediately effective when needed



One pull on the cable is enough to unmate the snap-in connection.

# BREAK-AWAY CONNECTORS IN SIZE 1



## Technical data

Number of contacts		Contact diameter	Single contact nominal current <sup>3</sup>	Nominal current insert <sup>3</sup>	Test voltage <sup>1</sup>	Nominal voltage <sup>2</sup>	View on termination area	
		mm	A	A	kVeff	kVms	Pin piece	Socket piece
0	2	1.3	9.5	9.5	1.5	0.3		
0	3	1.3	9.5	9.5	1.5	0.3		
0	4	0.9	6.5	6.5	1.5	0.3		
0	5	0.9	6.5	4.75	1.5	0.3		
0	6	0.7	4	2.6	1.5	0.3		
0	7	0.7	4	2.6	1.5	0.3		
0	8	0.7	4	2.2	1.5	0.3		
0	9	0.5	2.75	1.5	1.35	0.3		
1	0	0.5	2.75	1.5	1.35	0.3		
1	2	0.5	2.75	1.25	1.2	0.3		
1	4	0.5	2.75	1.25	1.2	0.3		

<sup>1</sup> SAE AS 13441:2004 method 3001.1

<sup>2</sup> Max. operating voltage at NN (sea level) acc. to SAE AS 13441:2004 method 3001.1.

<sup>3</sup> Current carrying capacity acc. DIN VDE 0891-1 1990 at ambient temperature of 40°C

## Your combination options for the Break-Away connectors in size 1

**+ STYLE G1**

- For front panel installation
- IP50

**+ STYLE G2**

- For front panel installation
- IP50

**+ STYLE G4**

- For front panel installation
- IP67

**+ STYLE G5**

- For front and rear panel installation
- IP50

**+ IN-LINE RECEPTACLE**  
cable-mount

- Cable-Cable-connection
- IP67

**+ STYLE G8**

- For rear panel installation
- IP50



## Order information

Connector including cable and assembly, smooth cable-end cut  
Assembled with white PVC cable



Number of contacts	Color plug and overmolding	Cable length					Cable diameter	Conductor cross-section	
		0.25 m	0.50 m	0.75 m	1.00 m	2.00 m	mm	mm <sup>2</sup>	AWG
02	grey	C00.510.100.020.001	C00.510.100.020.002	C00.510.100.020.003	C00.510.100.020.004	C00.510.100.020.005	4.4	0.50	20
	black	C00.510.100.020.006	C00.510.100.020.007	C00.510.100.020.008	C00.510.100.020.009	C00.510.100.020.010			
	white	C00.510.100.020.011	C00.510.100.020.012	C00.510.100.020.013	C00.510.100.020.014	C00.510.100.020.015			
03	grey	C00.510.100.030.001	C00.510.100.030.002	C00.510.100.030.003	C00.510.100.030.004	C00.510.100.030.005	4.6	0.50	20
	black	C00.510.100.030.006	C00.510.100.030.007	C00.510.100.030.008	C00.510.100.030.009	C00.510.100.030.010			
	white	C00.510.100.030.011	C00.510.100.030.012	C00.510.100.030.013	C00.510.100.030.014	C00.510.100.030.015			
04	grey	C00.510.100.040.001	C00.510.100.040.002	C00.510.100.040.003	C00.510.100.040.004	C00.510.100.040.005	4.5	0.34	22
	black	C00.510.100.040.006	C00.510.100.040.007	C00.510.100.040.008	C00.510.100.040.009	C00.510.100.040.010			
	white	C00.510.100.040.011	C00.510.100.040.012	C00.510.100.040.013	C00.510.100.040.014	C00.510.100.040.015			
05	grey	C00.510.100.050.001	C00.510.100.050.002	C00.510.100.050.003	C00.510.100.050.004	C00.510.100.050.005	4.9	0.34	22
	black	C00.510.100.050.006	C00.510.100.050.007	C00.510.100.050.008	C00.510.100.050.009	C00.510.100.050.010			
	white	C00.510.100.050.011	C00.510.100.050.012	C00.510.100.050.013	C00.510.100.050.014	C00.510.100.050.015			
06	grey	C00.510.100.060.001	C00.510.100.060.002	C00.510.100.060.003	C00.510.100.060.004	C00.510.100.060.005	4.6	0.14	26
	black	C00.510.100.060.006	C00.510.100.060.007	C00.510.100.060.008	C00.510.100.060.009	C00.510.100.060.010			
	white	C00.510.100.060.011	C00.510.100.060.012	C00.510.100.060.013	C00.510.100.060.014	C00.510.100.060.015			
07	grey	C00.510.100.070.001	C00.510.100.070.002	C00.510.100.070.003	C00.510.100.070.004	C00.510.100.070.005	4.6	0.14	26
	black	C00.510.100.070.006	C00.510.100.070.007	C00.510.100.070.008	C00.510.100.070.009	C00.510.100.070.010			
	white	C00.510.100.070.011	C00.510.100.070.012	C00.510.100.070.013	C00.510.100.070.014	C00.510.100.070.015			
08	grey	C00.510.100.080.001	C00.510.100.080.002	C00.510.100.080.003	C00.510.100.080.004	C00.510.100.080.005	5.0	0.14	26
	black	C00.510.100.080.006	C00.510.100.080.007	C00.510.100.080.008	C00.510.100.080.009	C00.510.100.080.010			
	white	C00.510.100.080.011	C00.510.100.080.012	C00.510.100.080.013	C00.510.100.080.014	C00.510.100.080.015			
09	grey	C00.510.100.090.001	C00.510.100.090.002	C00.510.100.090.003	C00.510.100.090.004	C00.510.100.090.005	5.0	0.08	28
	black	C00.510.100.090.006	C00.510.100.090.007	C00.510.100.090.008	C00.510.100.090.009	C00.510.100.090.010			
	white	C00.510.100.090.011	C00.510.100.090.012	C00.510.100.090.013	C00.510.100.090.014	C00.510.100.090.015			
10	grey	C00.510.100.100.001	C00.510.100.100.002	C00.510.100.100.003	C00.510.100.100.004	C00.510.100.100.005	5.0	0.08	28
	black	C00.510.100.100.006	C00.510.100.100.007	C00.510.100.100.008	C00.510.100.100.009	C00.510.100.100.010			
	white	C00.510.100.100.011	C00.510.100.100.012	C00.510.100.100.013	C00.510.100.100.014	C00.510.100.100.015			
12	grey	C00.510.100.120.001	C00.510.100.120.002	C00.510.100.120.003	C00.510.100.120.004	C00.510.100.120.005	5.0	0.08	28
	black	C00.510.100.120.006	C00.510.100.120.007	C00.510.100.120.008	C00.510.100.120.009	C00.510.100.120.010			
	white	C00.510.100.120.011	C00.510.100.120.012	C00.510.100.120.013	C00.510.100.120.014	C00.510.100.120.015			
14	grey	C00.510.100.140.001	C00.510.100.140.002	C00.510.100.140.003	C00.510.100.140.004	C00.510.100.140.005	5.5	0.08	28
	black	C00.510.100.140.006	C00.510.100.140.007	C00.510.100.140.008	C00.510.100.140.009	C00.510.100.140.010			
	white	C00.510.100.140.011	C00.510.100.140.012	C00.510.100.140.013	C00.510.100.140.014	C00.510.100.140.015			

## Order information

In-line receptacle including cable and assembly, smooth cable-end cut  
Assembled with white PVC cable



Number of contacts	Color In-line receptacle and cable assembly	Cable length			Cable diameter mm	Conductor cross-section	
		0.25 m	0.75 m	2.00 m		mm <sup>2</sup>	AWG
2	grey	C00.510.150.020.001	C00.510.150.020.003	C00.510.150.020.005	4.4	0.50	20
3	grey	C00.510.150.030.001	C00.510.150.030.003	C00.510.150.030.005	4.6	0.50	20
4	grey	C00.510.150.040.002	C00.510.150.040.003	C00.510.150.040.005	4.5	0.34	22
5	grey	C00.510.150.050.001	C00.510.150.050.003	C00.510.150.050.005	4.9	0.34	22
6	grey	C00.510.150.060.001	C00.510.150.060.003	C00.510.150.060.005	4.6	0.15	26
7	grey	C00.510.150.070.002	C00.510.150.070.003	C00.510.150.070.005	4.6	0.14	26
8	grey	C00.510.150.080.001	C00.510.150.080.003	C00.510.150.080.005	5.0	0.14	26
9	grey	C00.510.150.090.001	C00.510.150.090.003	C00.510.150.090.005	5.0	0.08	28
10	grey	C00.510.150.100.001	C00.510.150.100.003	C00.510.150.100.005	5.0	0.08	28
12	grey	C00.510.150.120.001	C00.510.150.120.003	C00.510.150.120.005	5.0	0.08	28
14	grey	C00.510.150.140.001	C00.510.150.140.003	C00.510.150.140.005	5.5	0.08	28

## BREAK-AWAY CONNECTORS IN SIZE 2

### Technical data



Number of contacts		Contact diameter	Single contact nominal current <sup>3</sup>	Nominal current insert <sup>3</sup>	Test voltage <sup>1</sup>	Nominal voltage <sup>2</sup>	View on termination area	
		mm	A	A	kVeff	kVrms	Pin piece	Socket piece
0	5	3 x 1.3	16.0	12.0	1.10	0.3		
		2 x 0.9	9.5	7				
1	6	0.7	6.5	2.75	1.35	0.4		

<sup>1</sup> SAE AS 13441:2004 method 3001.1

<sup>2</sup> Max. operating voltage at NN (sea level) acc. to SAE AS 13441:2004 method 3001.1.

<sup>3</sup> Current carrying capacity acc. DIN VDE 0891-1 1990 at ambient temperature of 40°C

### Your combination options for the size 2 Break-Away connectors

#### + STYLE G1



- For front panel installation
- IP50

#### + STYLE G4



- For front panel installation
- IP64

#### + STYLE G5



- For front and rear panel installation
- IP50

#### + IN-LINE RECEPTACLE cable-mount



- Cable-Cable connection
- IP67

Up to 250 V AC  
5 pole version  
(acc. to IEC 60601-1 /  
2 MOPP)

## Order information

Connector including cable and assembly, smooth cable-end cut  
Assembled with grey PVC cable



Number of contacts	Color plug and overmolding	Cable length			Cable diameter mm	Conductor cross-section	
		0.25 m	0.75 m	2.00 m		mm²	AWG
5	grey	C00.520.100.050.001	C00.520.100.050.002	C00.520.100.050.003	8.5	3 x 1.5 2 x 0.5	14 20
16	grey	C00.520.100.160.001	C00.520.100.160.002	C00.520.100.160.003	7.9	0.34	22
	white	C00.520.100.160.004	C00.520.100.160.005	C00.520.100.160.006			

Connector including cable and assembly, smooth cable-end cut  
Assembled with black PUR cable

Number of contacts	Color plug and overmolding	Cable length			Cable diameter mm	Conductor cross-section	
		0.25 m	0.75 m	2.00 m		mm²	AWG
16	black	C00.520.100.160.007	C00.520.100.160.008	C00.520.100.160.009	7.9	0.34	22

In-line receptacle including cable and assembly, smooth cable-end cut  
Assembled with grey PVC cable



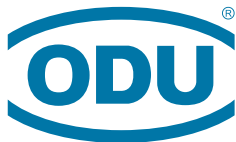
Number of contacts	Color In-line receptacle and cable assembly	Cable length			Cable diameter mm	Conductor cross-section	
		0.25 m	0.75 m	2.00 m		mm²	AWG
5	grey	C00.520.150.050.001	C00.520.150.050.002	C00.520.150.050.003	8.5	3 x 1.5 2 x 0.5	14 20
16	grey	C00.520.150.160.001	C00.520.150.160.002	C00.520.150.160.003	7.9	0.34	22

In-line receptacle including cable and assembly, smooth cable-end cut  
Assembled with black PUR cable

Number of contacts	Color In-line receptacle and cable assembly	Cable length			Cable diameter mm	Conductor cross-section	
		0.25 m	0.75 m	2.00 m		mm²	AWG
16	black	C00.520.150.160.004	C00.520.150.160.005	C00.520.150.160.006	7.9	0.34	22

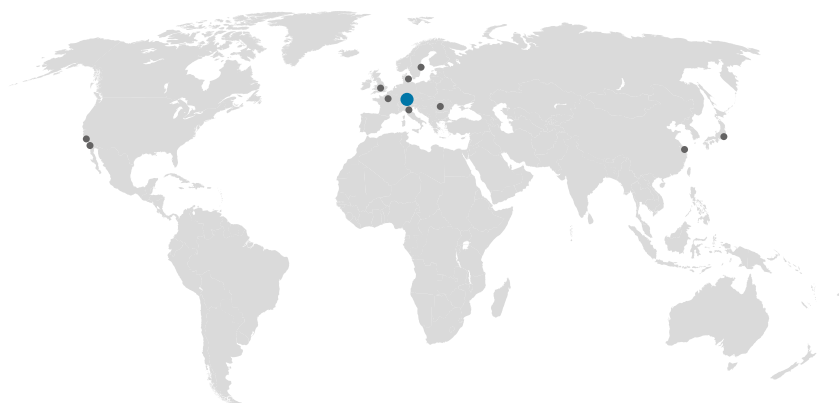


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<b>Mexico</b>	ODU Mexico Manufacturing S.R.L. de C.V.
<b>Romania</b>	ODU Romania Manufacturing S.R.L.
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**Further information and specialized representatives can be found at:**  
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PMK/UKMM/NUF

ODU MEDI-SNAP® BREAK-AWAY CONNECTORS / DV / 1118 / EN

ODU MEDI-SNAP®