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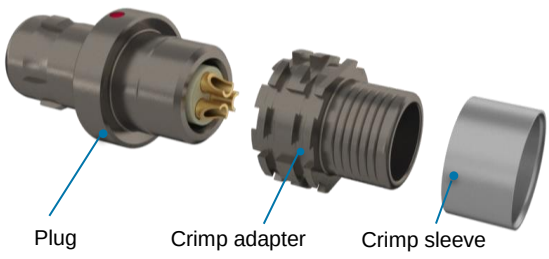
ODU AMC®
Break-away and Easy-Clean plug

1. Cable assembly

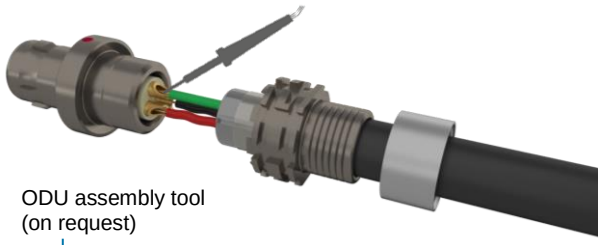


Size	max. cable ∅ mm
0	5.5
1	6.5
1.5 (A)	8.0
2	10.0
3	11.5

Note: Cable with foil shield such as foiled twisted pair-cable (FTP) not suitable for shield termination mentioned below.

1. Slide crimp sleeve and crimp adapter over the cable. The crimp sleeve is not needed if a metal band is used for fastening the shield to the crimp adapter.

2. Strip the cable and conductors[1]. Fold back the shield and use fastening tape to fasten it temporarily to the cable jacket. Tin-plate this wires if needed.

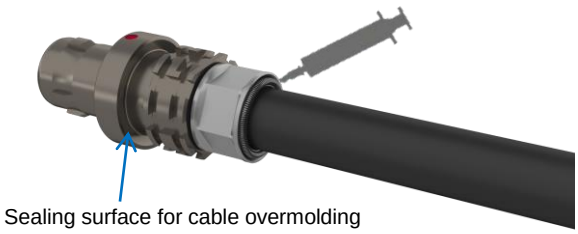


3. Solder the wires, noting the placement of each wire according to your wiring chart.
Clean the solder area with Isopropylalcohol and brush.

4. Screw the crimp adapter on so that it is flush, observing torque values (see page 3).
Secure the screw thread with adhesive[2].

5. Remove the fastening tape and lay the shield braid on to the crimp adapter.

ASSEMBLY INSTRUCTION

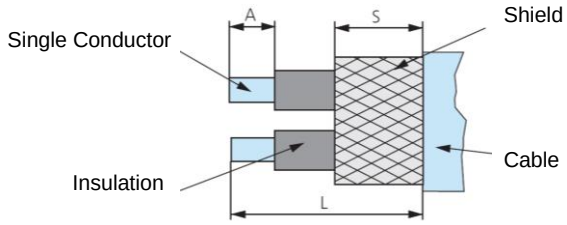


6. Fasten the shield braid to the crimp adapter by means of crimping or by using a metal band.
   More information see page 4.
   Encapsulate the interior of the crimp adapter to secure the soldered points (ODU advise WEVO-2K-casting resin PU552FL)

7. Bend relief: This can be implemented by means of overmolding or by using shrink boot.
   More information see page 5.

2. Cable Preparation – straight cable exit / right angle cable exit

The following table provides recommended guidelines for cable preparation.
The according stripping measures have to be checked before assembly!



		Straight cable assembly			Right angle cable assembly		
Size	Contact ø	L	A	S	L	A	S
0	0.5	9	3.5	8	14	3.5	14
	0.6	9	3.5	8	14	3.5	14
	0.7	9	3.7	8	14	3.7	14
	0.9	9	3.7	8	14	3.7	14
1	0.5	11	3.5	8	15	3.5	15
	0.6	11	3.5	8	15	3.5	15
	0.7	11	3.7	8	15	3.7	15
	0.9	11	3.7	8	15	3.7	15
1.5 (A)	0.5	11	3.5	8	15	3.5	15
	0.6	11	3.5	8	15	3.5	15
	0.7	11	3.7	8	15	3.7	15
2	0.5	11	3.5	8	15	3.5	15
	0.7	11	3.7	8	15	3.4	15
	1.3	11	4.1	8	15	4.1	15
3	0.5	13	3.5	8	30	3.5	25
	0.7	13	3.7	8	30	3.7	25
	0.9	13	3.7	8	30	3.7	25
	2.0	13	5.4	8	30	5.4	25

Stripping lengths cable jacket (L)	
Length in mm	Tolerance in mm
< 20	± 1
> 20 - 50	± 2
> 50 - 100	± 3

Stripping length braided shield (S)	
Length in mm	Tolerance in mm
< 10	± 1
> 10 - 20	± 2

Stripping lengths single conductor (A)	
Length in mm	Tolerance in mm
< 5	± 0.5
> 5 - 10	± 1
> 10 - 20	± 2

Exceptions are noted on special instructions.
Right-angle plugs have special instructions.

Notes for data-rate-connectors

Before soldering, twist the strands back slightly in the original direction. If a shield is available for the separately pairs of wires (e.g. STP-Cables), wrap it around the pairs so as far as possible.

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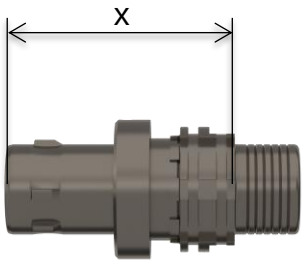
ASSEMBLY INSTRUCTION

Break-away and Easy-Clean plug

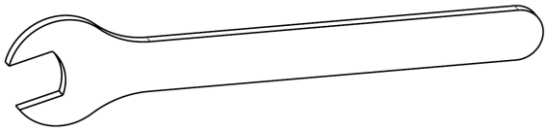
3. Assembly crimp adapter

Size	Torque Nm	Reference Dimension x mm
0	0.5	8.7
1	1.0	12.2
1.5 (A)	1.5	12.2
2	2.0	12.6
3	2.5	13.3



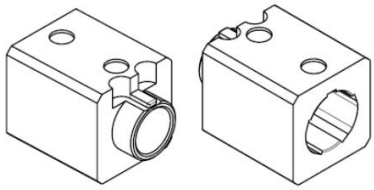
3.1 Spann wrench

Size	Part number	Wrench size
0	598.700.001.022.000	9
1	598.700.001.012.000	11
1.5 (A)	598.700.001.003.000	12
2	598.700.001.005.000	14
3	598.700.001.023.000	18



3.2 Assembly tool

Size	Part number
0	700.645.900.320.000
1	701.645.900.320.000
1.5 (A)	715.645.900.320.000
2	702.645.900.320.000
3	703.645.900.320.000



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ASSEMBLY INSTRUCTION

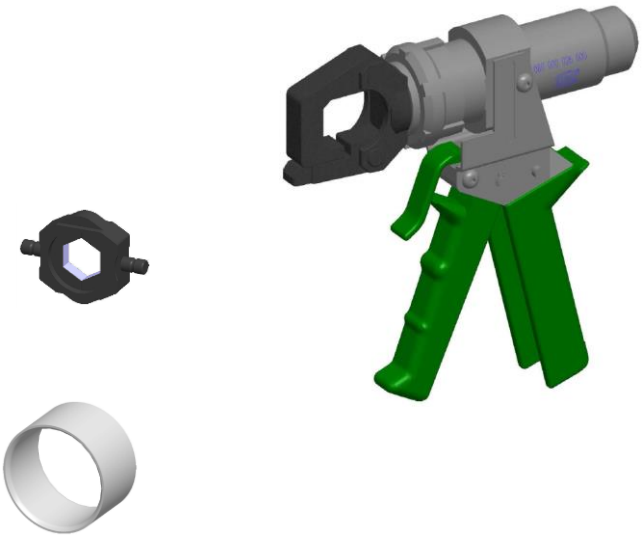
Break-away and Easy-Clean plug

4. Assembly crimp sleeve

4.1 Crimp tool ODU

Hand-crimp tool	
Size	Part number
all	080.000.026.000.000

Crimp dies	
Size	Part number
0	080.000.026.700.000
1	080.000.026.701.000
1.5 (A)	080.000.026.715.000
2	080.000.026.702.000
3	080.000.026.703.000



To connect the shielding with the crimp.

4.2 Band-It Bands

Hand-crimp tool	
Size	Part number
all	080.000.058.000.000

Tie-Dex Micro Bands	
Size	Part number
0-3	921.000.004.000.248
4,5 (E)	921.000.004.000.249

To connect the shielding with the crimp adapter, using a Tie-Dex Micro Band.

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Break-away and Easy-Clean plug

5. Cable interface

5.1 ODU overmolding

We provide complete solution with straight and right-angle overmolding on request

5.2 Heatshrinkable straight solution

Size	Part number			Cable diameter
	ODU	Hellermann	TE Connectivity	
0+1	921.000.010.008.103	-	**202K111-25-0**	>3 mm
1.5	921.000.010.008.103	-	**202K111-25-0**	>3 mm
	921.000.010.008.084	**401-52780**	202D121-3-60	>6 mm
2+3	921.000.010.008.084	**401-52880**	202D121-3-60	>6 mm

The image can vary depending on size and variant of this shrinking tube.

ODU stock parts are the bold numbers.

5.3 Heatshrinkable right-angle solution

Size	Part number		Cable diameter
	ODU	Hellermann	
0	921.000.010.008.115	411-08480	>3,8 mm
1-2	921.000.010.008.087	411-52480	>6 mm
3	921.000.010.008.111[3)]	411-56480[3)]	>8,5 mm

The image can vary depending on size and variant of this shrinking tube.

To a better adhesion of the heatshrink boots on housing and cable, we recommend to work with anepoxyd-adhesion e.g. Hellermann V9500, Raychem S1125.
(Take care of Hellermann/TE Connectivity work instruction)

3) On size 3 it´s necessary to secure between housing and heatshrink boot with Hellermann V9500/TE Connectivity S1125.

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