

ODU AMC[®] SERIES T

Connectors with ODU integrated shield-termination platform

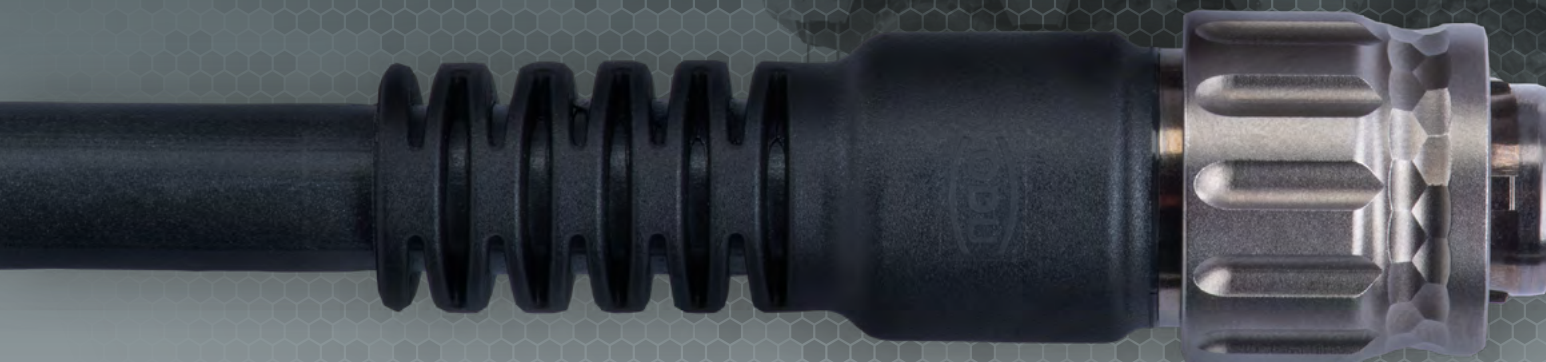
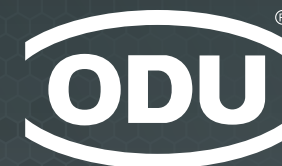
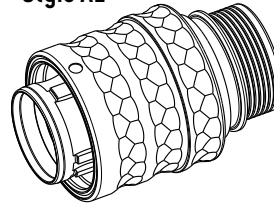


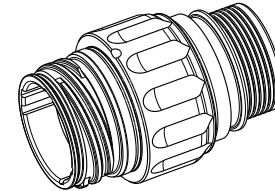
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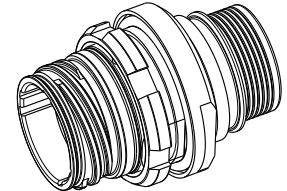
Break-away plug
Style A1



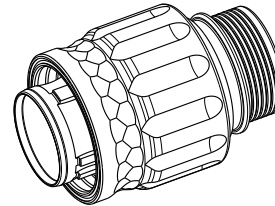
In-line receptacle
Style K1



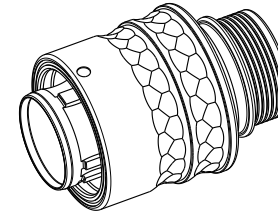
Panel-mount
receptacle
Style G6



Threaded plug
Style C1

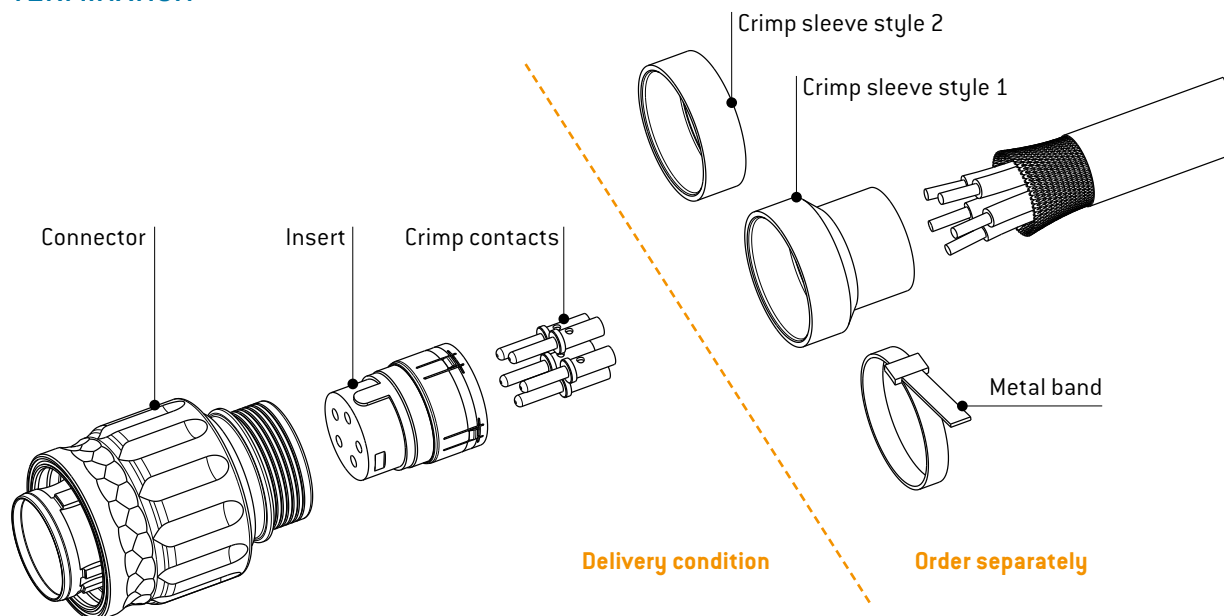


Push-pull plug
Style S1



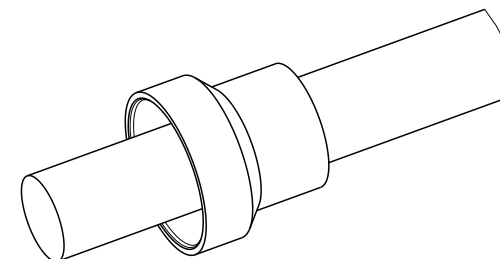
ASSEMBLY STEP BY STEP

CONNECTORS WITH CRIMP TERMINATION



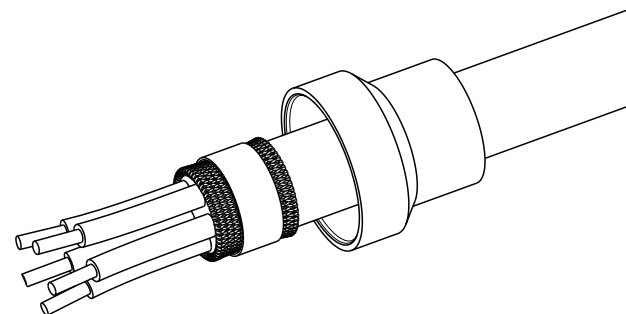
Step 1

- Slide crimp sleeve over the cable. The crimp sleeve is not needed if a metal band is used for fastening the shield to the crimp area. The crimp sleeve has to be ordered separately. For more information please see [page 7](#).



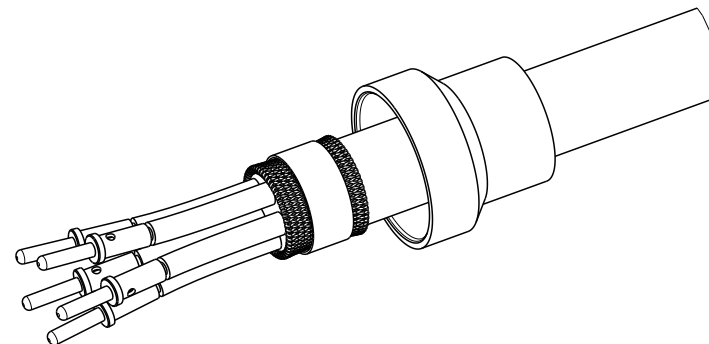
Step 2

- Strip cable and conductors ([see page 6](#)). Fold back the shield and use fastening tape (e.g. Würth: 09920019) to fasten it temporarily to the cable jacket.



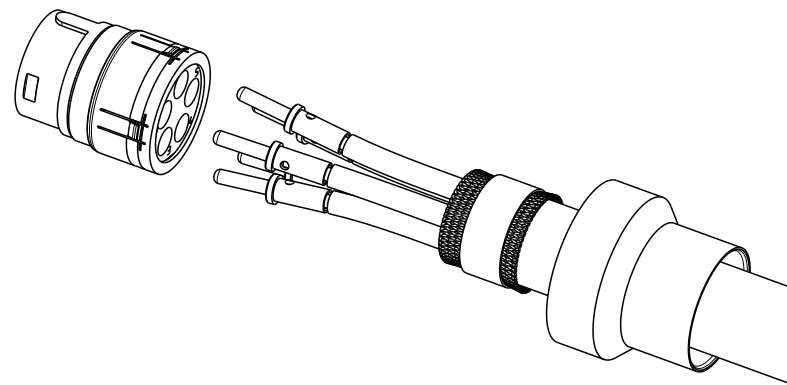
Step 3

- Crimp the contacts to the wires. For recommended tools and instructions please see [crimp contact specification D00016300](#).



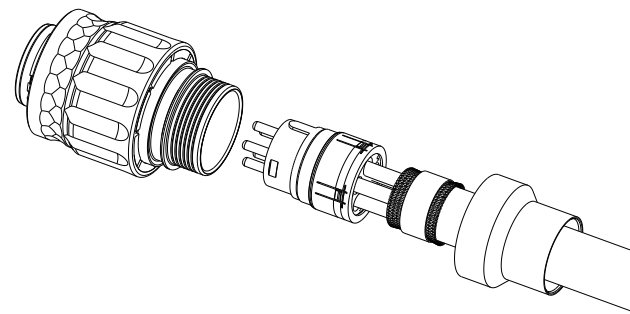
Step 4

- Press the terminated contacts into the contact cavities according to the application-specific pinout instructions.
Tools can also be found on [crimp contact specification D00016300](#).



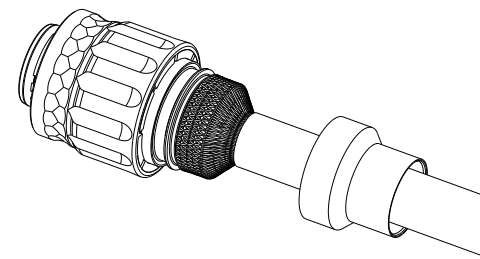
Step 5

- Put the assembled insert with the cable into the housing. Align the exterior key of the insert with the interior keyway of the connector. Press the insert assembly into the connector. If inserted correctly, there should be an audible “click.”



Step 6

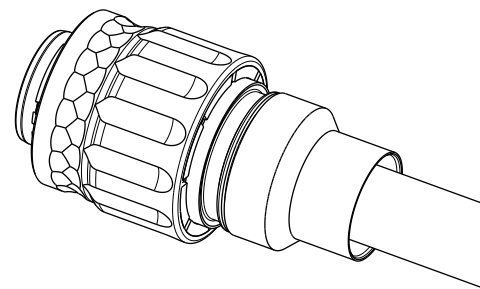
- Remove the fastening tape and lay the shield braid on to the crimp area.



Step 7

- Fasten the shield braid to the crimp area by means of crimping or by using a metal band. More information on [page 7](#).

Optional: For additional sealing or to prepare for overmolding, the interior of the crimp sleeve may need to be potted. (ODU recommends Dow Corning SE 9187 L or WEVO-2K-casting resin PU552FL, depending on the application).



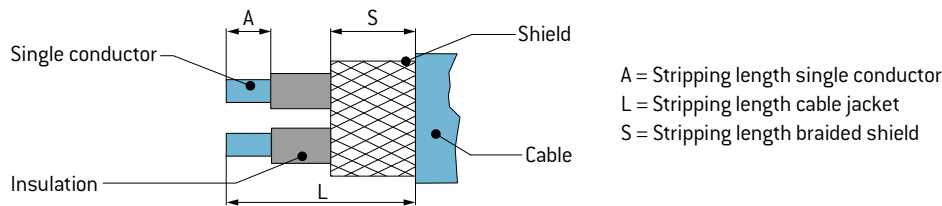
Step 8

- Bend relief: This can be implemented by means of overmolding or by using shrink boot. More information on [page 8](#).

GENERAL NOTES

RECOMMENDED STRIPPING LENGTH

The following table provides recommended guidelines for cable preparation.



Shell size	Insert arrangement	Contact	Straight cable assembly			Right angled assembly		
			L	A	S	L	A	S
9	8 way	#22D	22	4.1	12	32	4.1	30
9	10 way	#22D	22	4.1	12	32	4.1	30
12	5 way	#16	28	6	12	37	6	35
12	18 way	#20MD	28	5.5	12	37	5.5	35
		#22D	28	4.1	12	37	4.1	35

All dimensions in mm
Tolerance: +10 %

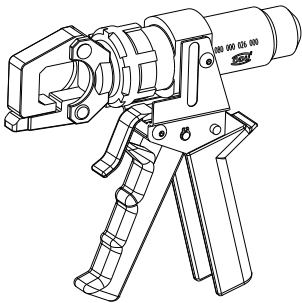
Exceptions are noted on special instructions.

Please note concerning data rate connectors:
Before crimping, please bend the strands back slightly in the original direction.
If a shield is available for the separate pairs of wires (e.g. STP-cables),
wrap it around the pairs as far as possible.

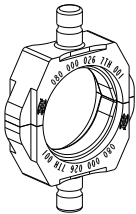
SHIELD TERMINATION

CRIMP SLEEVE

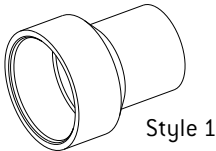
Crimp tool		
Shell size	Material number	ODU number
all	50231527	080.000.026.000.000



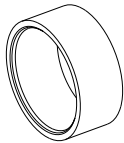
Crimp die		
Shell size	Material number	ODU number
9	50281524	080.000.026.7TE.001
12	50286858	080.000.026.7TH.001



Crimp sleeve			
Shell size	Material number	ODU number	Style
9	50269982	7TE.440.101.304.000	1
	50291239	7TE.440.101.304.001	2
12	50270266	7TH.440.101.304.000	1
	50291232	7TH.440.101.304.001	2



Style 1

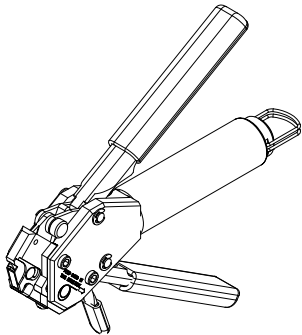


Style 2

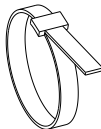
Style 1 is needed for a 20 meter submersible cable assembly.
Style 2 is needed for a cable assembly with right-angle overmolding.

METAL BANDS

Crimp tool		
Shell size	Material number	ODU number
all	50035716	080.000.058.000.000



Tie-dex micro bands		
Shell size	Material number	ODU number
all	50156242	921.000.004.000.248

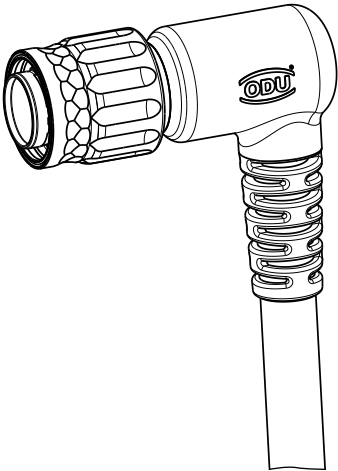
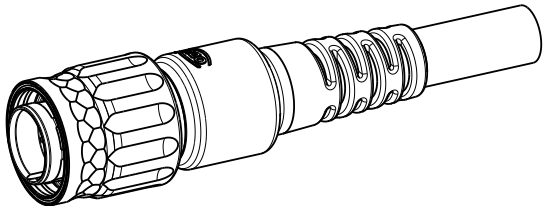


CABLE INTERFACE

ODU connectors are designed for overmolding. A heatshrinkable bend relief is also possible.

ODU OVERMOLDING

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

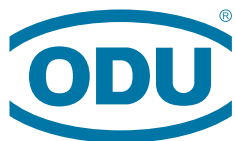


Straight heat shrink boot option				
Shell size	Material number	ODU number	Hellermann	TE Connectivity
all	50157036	921.000.010.008.084	401-52880	202D121-3-60

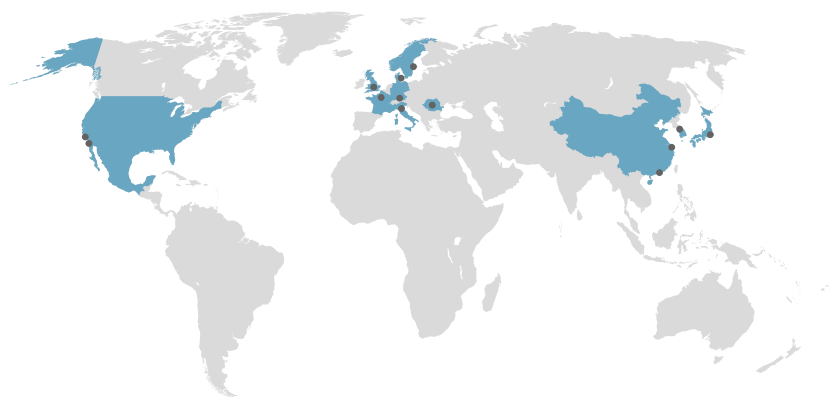
ODU stock parts are written in **bold numbers**.

To a better adhesion of the heatshrink boots on housing and cable, ODU recommend to work with an epoxyd-adhesion e.g. Hellermann V9500, TE Connectivity S1125.
[Take care of Hellermann / TE Connectivity work instruction]

Right angle heat shrink boot option			
Shell size	Material number	ODU number	Hellermann
all	50157039	921.000.010.008.087	411-52480



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