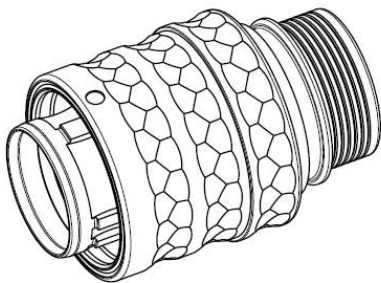


ASSEMBLY INSTRUCTION

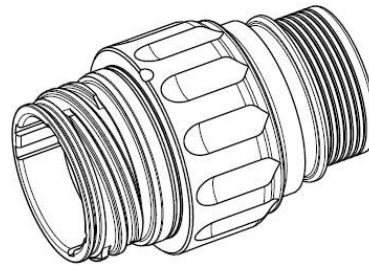
ODU AMC[®] SERIES T CONNECTORS

CONNECTOR TYPES

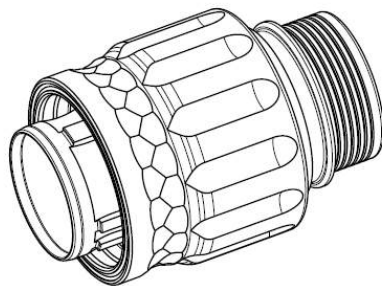
CONNECTORS WITH ODU INTEGRATED SHIELD-TERMINATION PLATFORM.



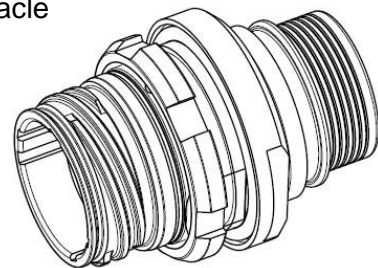
Break-Away Plug
Style A1



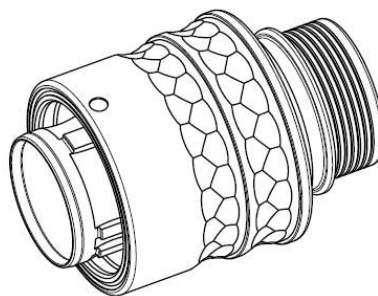
In-Line Receptacle
Style K1



Threaded Plug
Style C1



Panel-Mount Receptacle
Style G6

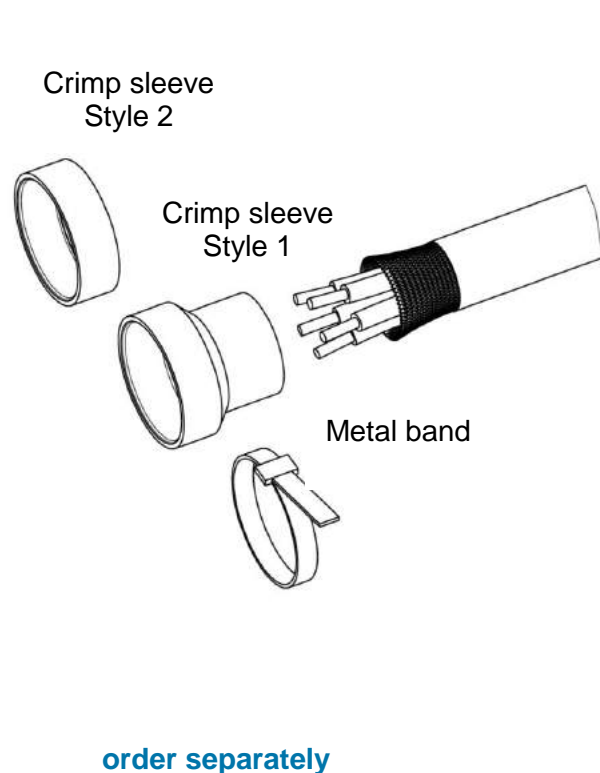
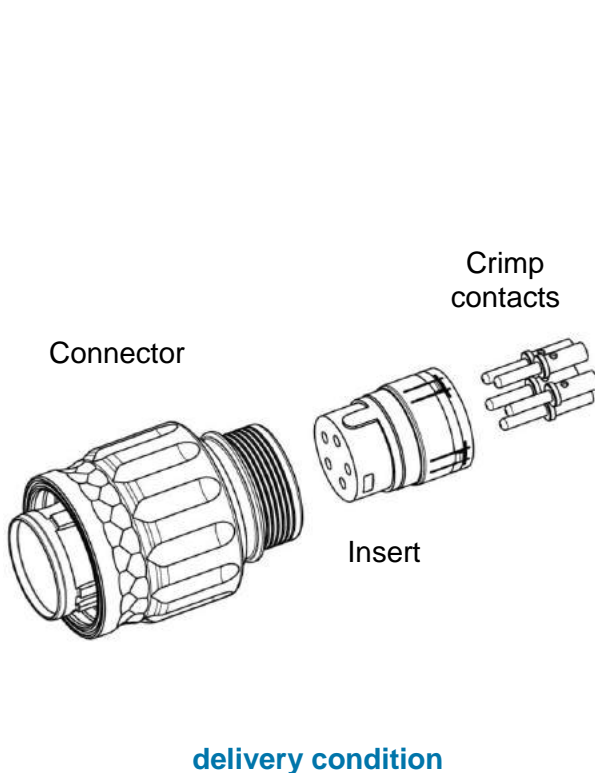


Push-Pull Plug
Style S1

ASSEMBLY INSTRUCTION

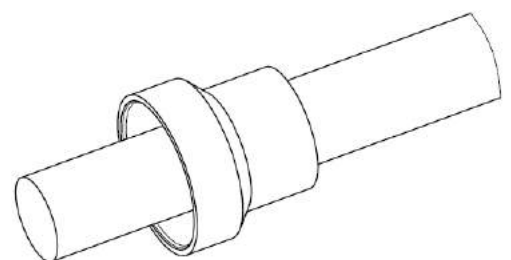
ODU AMC[®] SERIES T CONNECTORS

ASSEMBLY



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 had to be ordered separately. More information on that on page 6.

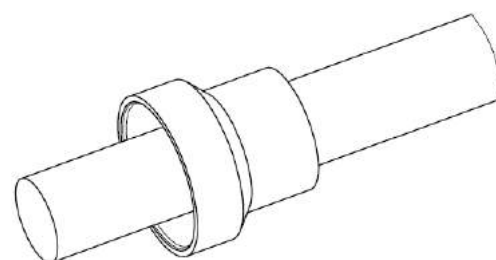


ASSEMBLY INSTRUCTION

ODU AMC[®] SERIES T CONNECTORS

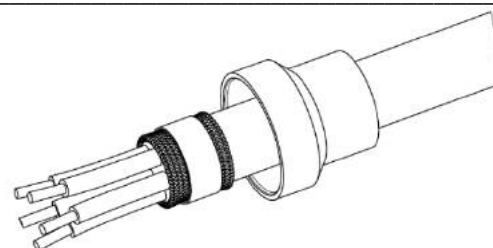
STEP 2

Strip cable and conductors (see page 5). Fold back the shield and use fastening tape (e.g. Würth: 09920019) to fasten it temporarily to the cable jacket.



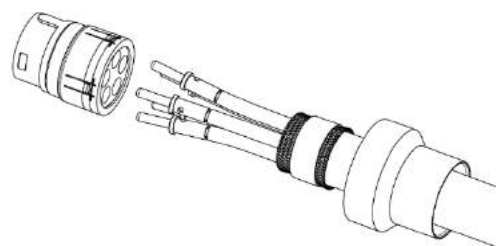
STEP 3

Crimp the contacts to the wires. For recommended tools and instructions see contact Information D00016300.



STEP 4

Press the terminated contacts into the contact cavities according to the application-specific pinout instructions. Use the insertion tools if needed. Information on these tools can also be found on contact information D00016300.

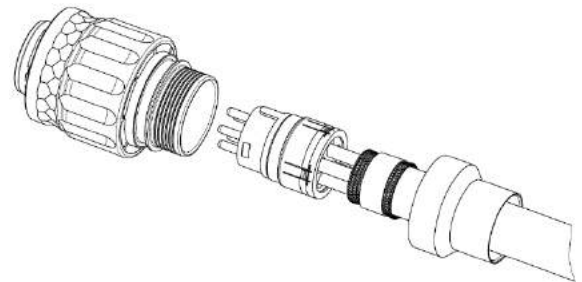


ASSEMBLY INSTRUCTION

ODU AMC[®] SERIES T CONNECTORS

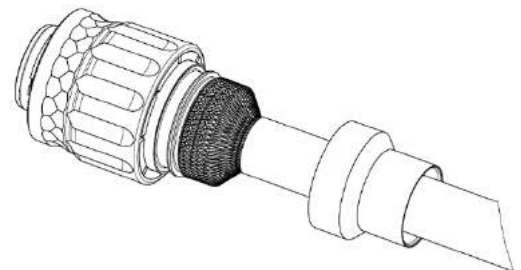
STEP 5

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



STEP 6

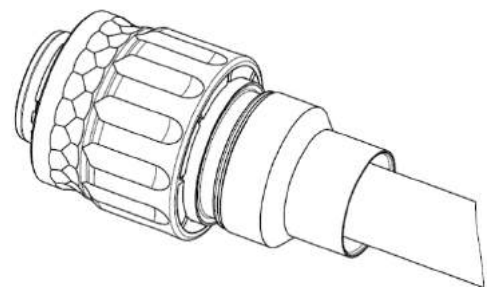
Remove the fastening tape and lay the shield braid on to the shield termination platform.



STEP 7

Fasten the shield braid to the crimp area by means of crimping or by using a metal band. More information on page 6.

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 7.

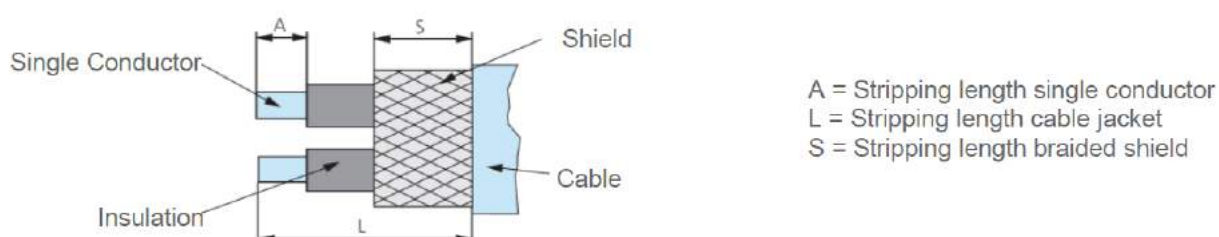
ASSEMBLY INSTRUCTION

ODU AMC[®] SERIES T CONNECTORS

GENERAL NOTES

RECOMMENDED STRIPPING LENGTH

The following table provides recommended guidelines for cable preparation.



Shell Size	Insert Arrangement	Contact	Straight cable assembly			Right angle cable 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.

Note for data rate connectors:

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

ASSEMBLY INSTRUCTION

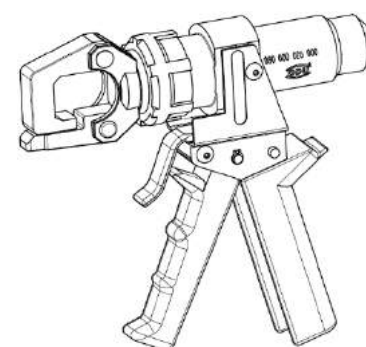
ODU AMC[®] SERIES T CONNECTORS

SHIELD TERMINATION

CRIMP SLEEVE

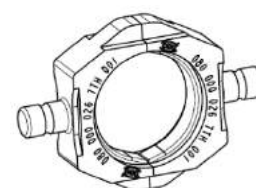
Crimp tool

Shell Size	Material number	ODU number
all	50231527	080.000.026.000.000



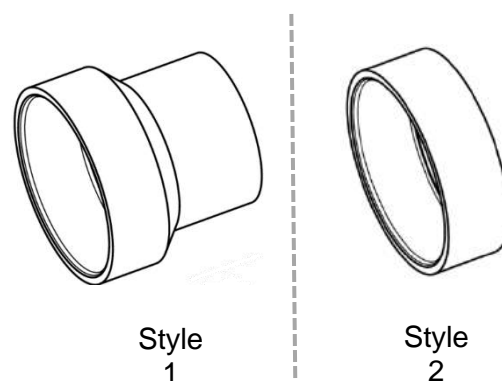
Crimp die

Shell Size	Material number	ODU number
9	50281524	080.000.026.7TE.001
12	50286858	080.000.026.7TH.001



Crimp sleeve

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

ASSEMBLY INSTRUCTION

ODU AMC[®] SERIES T CONNECTORS

METAL BANDS

Crimp tool

ShellSize	Material number	ODU number
all	50035716	080.000.058.000.000



Tie-Dex Micro Bands

ShellSize	Material number	ODU number
all	50156242	921.000.004.000.248

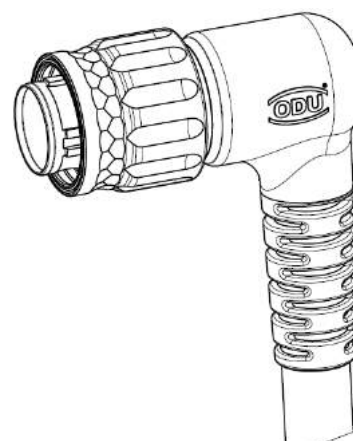
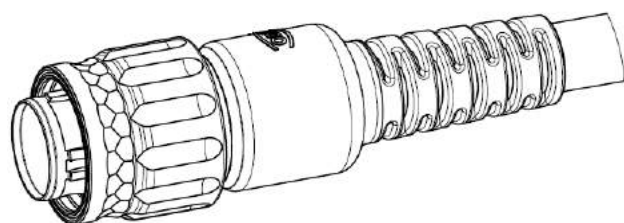


CABLE INTERFACE

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

ODU OVERMOLDING

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





A PERFECT ALLIANCE.

ASSEMBLY INSTRUCTION

ODU AMC[®] SERIES T CONNECTORS

HEATSHRINK SOLUTION

straight heat shrink boot option

ShellSize	Material number	ODU number	Hellermann	TE Connectivity
all	50157036	921.000.010.008.084	401-52880	202D121-3-60

ODU stock parts are the bold numbers.

right angle heat shrink boot option

ShellSize	Material number	ODU number	Hellermann
all	50157039	921.000.010.008.087	411-52480

For 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)