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This document completes the **AluLite Series catalogue**, which can be found in the Library section of our website.

It gives you technical and ordering information on cable clamp sets, heat shrinking and overmolding techniques for the Fischer AluLite connectors.

## ■ Contents

### For S/SC body styles

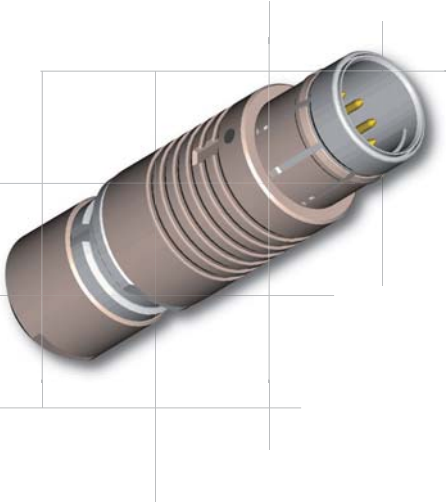
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### For SS/SSC body styles

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## ■ Cable clamp sets introduction

To guarantee excellent cable retention and strain relief, Fischer Connectors provides robust and high quality cable clamp sets. The collet style clamp system used, retains the cable over a relatively large jacket surface area. This prevents damage to small diameter and delicate conductors.



For multipole connectors, cable clamp sets have to be ordered separately. See following pages to select the one suiting your plug.

For coax, triax or hybrid contact configurations, please contact us.

All sets shown are compatible with the following AluLite connectors:

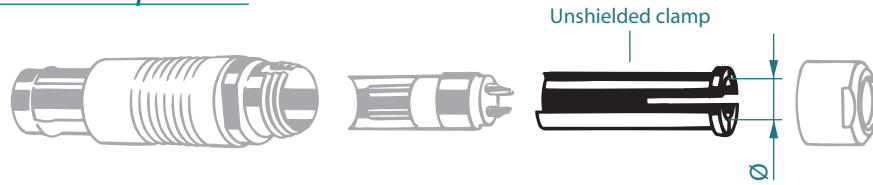
- S (standard body length plug with push-pull locking system)
- SC (standard body length plug with emergency release system)

## ■ U, S and E cable clamp sets

Fischer Connectors offers three types of cable clamp sets. The table below will help you select the one corresponding to your needs.

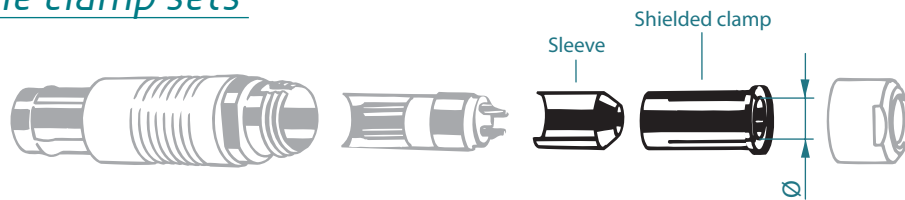
Cable clamp sets	Do you need the interface between the cable and the connector to be sealed?		Do you need the connector to be terminated to the cable shield?	
	No	Yes	No	Yes
<b>U type</b> (Unshielded)	•		•	
<b>S type</b> (Shielded)	•			•
<b>E type</b> (Environmental)		•	•	•

## ■ U type cable clamp sets



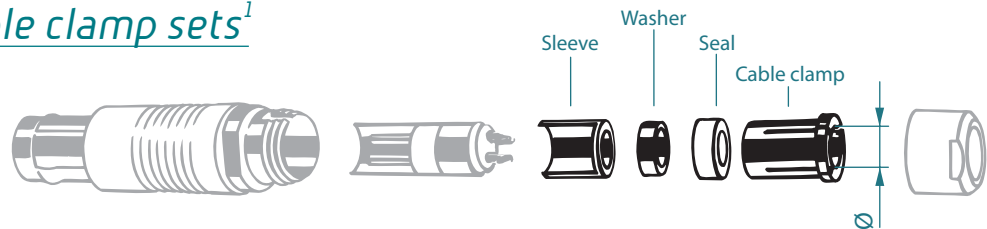
Cable dia range	Collet $\varnothing$	Cable clamp set part number
1.4 - 2.0	2.0	E3 102.5/2.0
2.0 - 2.7	2.7	E3 102.5/2.7
2.7 - 3.5	3.5	E3 102.5/3.5
3.5 - 4.2	4.2	E3 102.5/4.2
4.2 - 4.7	4.7	E3 102.5/4.7

## ■ S type cable clamp sets<sup>1</sup>



Cable dia range	Collet $\varnothing$	Cable clamp set part number
1.5 - 2.1	2.1	E32 102.1/2.1 + A
2.1 - 2.6	2.6	E32 102.1/2.6 + A
2.6 - 3.1	3.1	E32 102.1/3.1 + A
3.1 - 3.6	3.6	E32 102.1/3.6 + A
3.6 - 4.1	4.1	E32 102.1/4.1 + A
4.1 - 4.3	4.3	E32 102.1/4.3 + A
4.3 - 4.7	4.7	102.248 + A

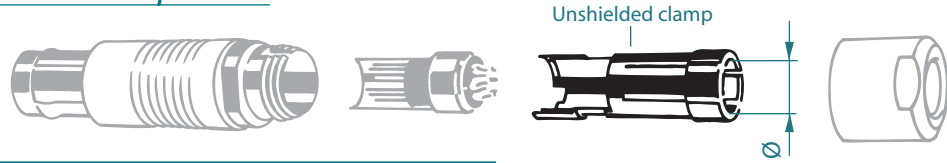
## ■ E type cable clamp sets<sup>1</sup>



Cable dia range	Collet $\varnothing$	Cable clamp set part number
1.5 - 2.1	2.1	E31 102.2/2.1 + B
2.1 - 2.6	2.6	E31 102.2/2.6 + B
2.6 - 3.1	3.1	E31 102.2/3.1 + B
3.1 - 3.6	3.6	E31 102.2/3.6 + B
3.6 - 4.1	4.1	E31 102.2/4.1 + B
4.1 - 4.3	4.3	E31 102.2/4.3 + B

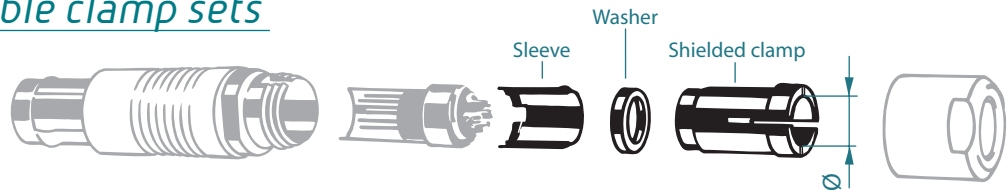
<sup>1</sup> For the 102 Series, plugs with crimp contacts must only be used with cable clamp sets of type U. All dimensions shown are in millimeters and are for reference only.

## ■ U type cable clamp sets



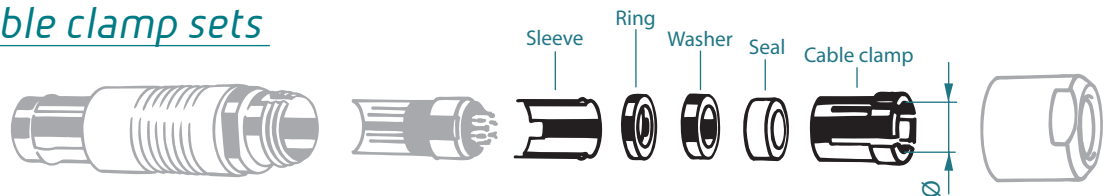
Cable dia range	Collet $\varnothing$	Cable clamp set part number
2.2 - 3.2	3.2	E3 103.6/3.2
3.2 - 4.2	4.2	E3 103.6/4.2
4.2 - 4.7	4.7	E3 103.6/4.7
4.7 - 5.2	5.2	E3 103.6/5.2
5.2 - 5.7	5.7	E3 103.6/5.7
5.7 - 6.2	6.2	E3 103.6/6.2
6.2 - 6.7	6.7	E3 103.6/6.7

## ■ S type cable clamp sets



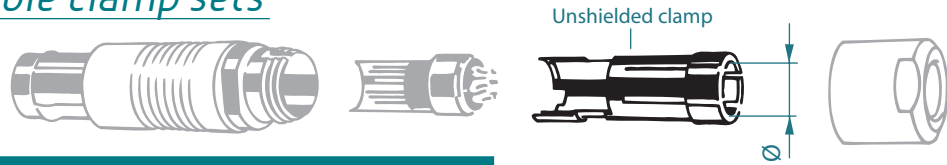
Cable dia range	Collet $\varnothing$	Cable clamp set part number
1.7 - 2.2	2.2	E31 103.1/2.2 + B
2.2 - 2.7	2.7	E31 103.1/2.7 + B
2.7 - 3.2	3.2	E31 103.1/3.2 + B
3.2 - 3.7	3.7	E31 103.1/3.7 + B
3.7 - 4.2	4.2	E31 103.1/4.2 + B
4.2 - 4.7	4.7	E31 103.1/4.7 + B
4.7 - 5.2	5.2	E31 103.1/5.2 + B
5.2 - 5.7	5.7	E31 103.1/5.7 + B
5.7 - 6.2	6.2	E31 103.1/6.2 + B
6.2 - 6.7	6.7	E31 103.1/6.7 + B

## ■ E type cable clamp sets



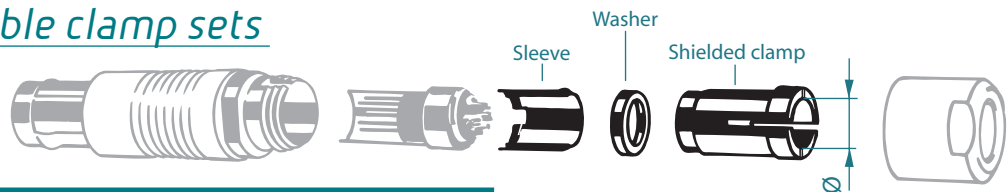
Cable dia range	Collet $\varnothing$	Cable clamp set part number
1.7 - 2.2	2.2	E31 103.2/2.2 + B
2.2 - 2.7	2.7	E31 103.2/2.7 + B
2.7 - 3.2	3.2	E31 103.2/3.2 + B
3.2 - 3.7	3.7	E31 103.2/3.7 + B
3.7 - 4.2	4.2	E31 103.2/4.2 + B
4.2 - 4.7	4.7	E31 103.2/4.7 + B
4.7 - 5.2	5.2	E31 103.2/5.2 + B
5.2 - 5.7	5.7	E31 103.2/5.7 + B
5.7 - 6.2	6.2	E31 103.2/6.2 + B

## ■ U type cable clamp sets



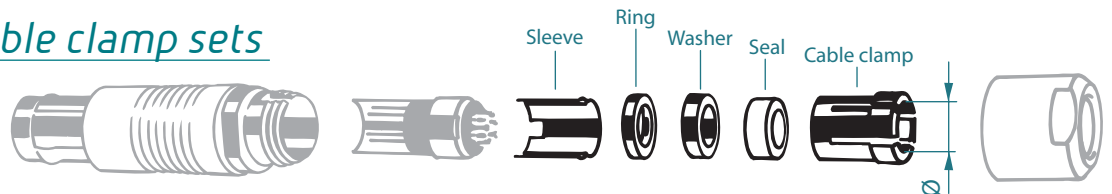
Cable dia range	Collet $\varnothing$	Cable clamp set part number
2.2 - 2.7	2.7	E3 1031.6/2.7
2.7 - 3.2	3.2	E3 1031.6/3.2
3.2 - 3.7	3.7	E3 1031.6/3.7
3.7 - 4.2	4.2	E3 1031.6/4.2
4.2 - 4.7	4.7	E3 1031.6/4.7
4.7 - 5.2	5.2	E3 1031.6/5.2
5.2 - 5.7	5.7	E3 1031.6/5.7
5.7 - 6.2	6.2	E3 1031.6/6.2
6.2 - 6.7	6.7	E3 1031.6/6.7
6.7 - 7.2	7.2	E3 1031.6/7.2

## ■ S type cable clamp sets



Cable dia range	Collet $\varnothing$	Cable clamp set part number
2.2 - 2.7	2.7	E3 1031.1/2.7
2.7 - 3.2	3.2	E3 1031.1/3.2
3.2 - 3.7	3.7	E3 1031.1/3.7
3.7 - 4.2	4.2	E3 1031.1/4.2
4.2 - 4.7	4.7	E3 1031.1/4.7
4.7 - 5.2	5.2	E3 1031.1/5.2
5.2 - 5.7	5.7	E3 1031.1/5.7
5.7 - 6.2	6.2	E3 1031.1/6.2
6.2 - 6.7	6.7	E3 1031.1/6.7
6.7 - 7.2	7.2	E3 1031.1/7.2

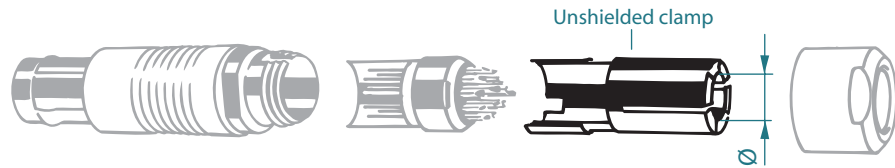
## ■ E type cable clamp sets



Cable dia range	Collet $\varnothing$	Cable clamp set part number
2.2 - 2.7	2.7	E3 1031.2/2.7
2.7 - 3.2	3.2	E3 1031.2/3.2
3.2 - 3.7	3.7	E3 1031.2/3.7
3.7 - 4.2	4.2	E3 1031.2/4.2
4.2 - 4.7	4.7	E3 1031.2/4.7
4.7 - 5.2	5.2	E3 1031.2/5.2
5.2 - 5.7	5.7	E3 1031.2/5.7
5.7 - 6.2	6.2	E3 1031.2/6.2
6.2 - 6.7	6.7	E3 1031.2/6.7

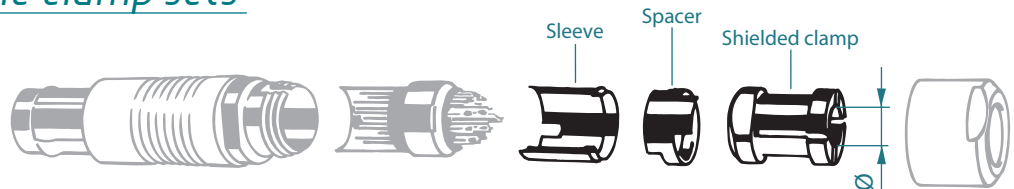
All dimensions shown are in millimeters and are for reference only.

## ■ U type cable clamp sets



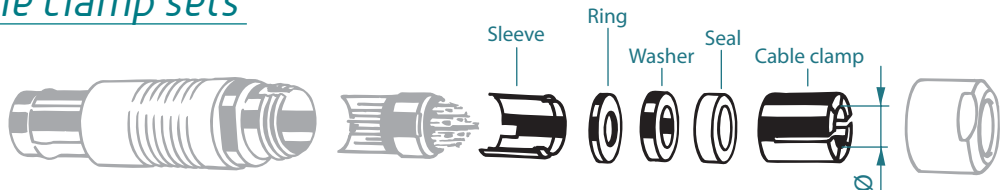
Cable dia range	Collet $\varnothing$	Cable clamp set part number
4.2 - 4.7	4.7	E3 104.6/4.7
4.7 - 5.7	5.7	E3 104.6/5.7
5.7 - 6.7	6.7	E3 104.6/6.7
6.7 - 7.7	7.7	E3 104.6/7.7
7.7 - 8.2	8.2	E3 104.6/8.2
8.2 - 8.7	8.7	E3 104.6/8.7

## ■ S type cable clamp sets



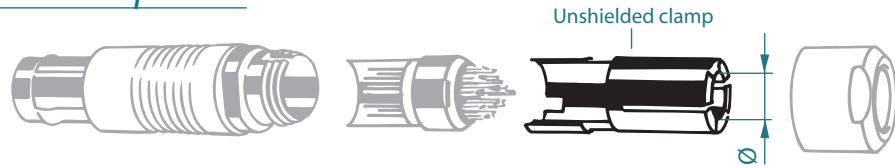
Cable dia range	Collet $\varnothing$	Cable clamp set part number
2.9 - 4.0	4.0	E3 104.3/4.0 + B
4.0 - 4.7	4.7	E3 104.3/4.7 + B
4.7 - 5.7	5.7	E3 104.3/5.7 + B
5.7 - 6.7	6.7	E3 104.3/6.7 + B
6.7 - 7.7	7.7	E3 104.3/7.7 + B
7.7 - 8.7	8.7	E3 104.3/8.7 + B

## ■ E type cable clamp sets



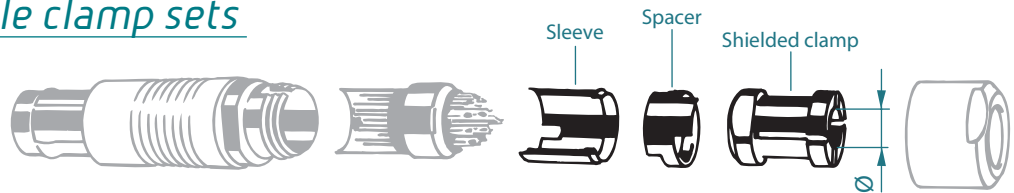
Cable dia range	Collet $\varnothing$	Cable clamp set part number
2.9 - 4.0	4.0	E3 104.2/4.0 + B
4.0 - 4.7	4.7	E3 104.2/4.7 + B
4.7 - 5.7	5.7	E3 104.2/5.7 + B
5.7 - 6.7	6.7	E3 104.2/6.7 + B
6.7 - 7.7	7.7	E3 104.2/7.7 + B
7.7 - 8.7	8.7	E3 104.2/8.7 + B

## ■ U type cable clamp sets



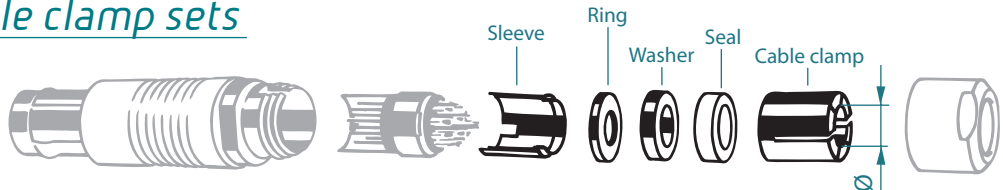
Cable dia range	Collet $\phi$	Cable clamp set part number
2.5 - 3.5	3.5	E3 105.6/3.5
3.5 - 4.5	4.5	E3 105.6/4.5
4.5 - 5.5	5.5	E3 105.6/5.5
5.5 - 6.5	6.5	E3 105.6/6.5
6.5 - 7.5	7.5	E3 105.6/7.5
7.5 - 8.5	8.5	E3 105.6/8.5
8.5 - 9.5	9.5	E3 105.6/9.5
9.5 - 10.5	10.5	E3 105.6/10.5

## ■ S type cable clamp sets



Cable dia range	Collet $\phi$	Cable clamp set part number
3.2 - 4.2	4.2	E3 105.1/4.2 + B
4.2 - 5.2	5.2	E3 105.1/5.2 + B
5.2 - 6.2	6.2	E3 105.1/6.2 + B
6.2 - 7.2	7.2	E3 105.1/7.2 + B
7.2 - 8.2	8.2	E3 105.1/8.2 + B
8.2 - 9.2	9.2	E3 105.1/9.2 + B
9.2 - 10.0	10.0	E3 105.1/10.0 + B
10.0 - 10.7	10.7	E3 105.1/10.7 + B

## ■ E type cable clamp sets



Cable dia range	Collet $\phi$	Cable clamp set part number
3.2 - 4.2	4.2	E31 105.2/4.2 + B
4.2 - 5.2	5.2	E31 105.2/5.2 + B
5.2 - 6.2	6.2	E31 105.2/6.2 + B
6.2 - 7.2	7.2	E31 105.2/7.2 + B
7.2 - 8.2	8.2	E31 105.2/8.2 + B
8.2 - 9.2	9.2	E31 105.2/9.2 + B
9.2 - 10.0	10.0	E31 105.2/10.0 + B
10.0 - 10.7	10.7	E31 105.2/10.7 + B

## ■ Introduction



Cable termination on SS (shortened body length plugs with push-pull locking system) and SSC (shortened body length plugs with emergency release system) can either be done by heat shrinking or overmolding.

Both techniques offer:

- strong cable retention
- sealing up to IP68 (2m/24h)
- mechanical protection
- cable insulation
- straight or right angle designs

More advanced designs can be achieved with overmolding, while heat shrinking usually turns out to be more favourable for small volumes and prototypes. However, our specialists are on hand to help you select the termination process that will best suits the specifics of your project.

Multipole, coax, triax or hybrid connectors can be terminated using both techniques.

## ■ Heat shrinking

The table below shows the typical options that can be considered for heat shrinking. For optimum material choice, please refer to specialized heat shrink suppliers.

	Schematic representation	Recommended suppliers
<b>Straight tubes</b>		Raychem
<b>Straight boots</b>		Raychem, Hellermann Tyton
<b>Right angle boots</b>		Raychem, Hellermann Tyton

## ■ Overmolding

Overmolding is part of the complete customer package Fischer Connectors can offer. Our techniques enable us to achieve high quality overmolding in various designs. Please, contact us for more information.

