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SiDlas

Cord retraction system for installation in 3D printed prostheses and orthoses

Important instructions

Must be installed by a specialist trained in installing SiDlas.
The entire line retraction system should be checked regularly to ensure that it functions properly.
If the retraction system is turned too tight, blood circulation can be impaired.
Do not use on patients with nerve problems.
Protect the cord from heat above 60C° and sharp objects.
Maximum patient weight is 90kg per installed SiDlas for lower extremities.

Content

4 x M4 x 6mm screw
4 x M4 x 8mm screw
4 x M4 x 10mm screw
1 x M4 x 12mm screw
1 x Placeholder nut
1 x Cord retraction system with cord
3 x Cord line guide
4 x Anchor-S short
4 x Anchor-S long

Instructions for installation in 3D printed products

planning

Choose a position where the line retraction system should be located on your product and where the anchor S should be placed. Mark these. Depending on your material thickness, choose Anker-S short or long.
To ensure that the cord guides lie flat on your product, you can lightly sand the contact surface of the cord guides.

Cord line guide WRONG



Cord line guide CORRECT



Insert thread
Drill holes for the anchors with a 5mm drill.
Place the anchor-S over the drilled hole and heat it with a soldering iron. The plastic will become soft and you can press the anchor-S into it.

Tip: It is recommended to use a soldering tip/melting aid for M4.

Cord line retraction system
Use Loctite 243 on all screws.
If using the cord line guides you should now screw them onto the anchors.
Measure the length of the cord. Please note that with SiDlas you can twist up a maximum total cord length of 24cm. That's 12cm per side.
Thread the cord through the cord line guides into the cord retrieval system and tie a simple knot in the cord. A simple knot is enough, but pull the excess end with pliers to apply sufficient force. Cut off the excess cord as shown at the other end.
Screw the SiDlas tight and test the functionality of the entire system.

The 1 anchor variant:
Screw the placeholder nut onto the 12mm screw and then screw the cord retraction system with that screw on you project. Now let the cord run around your project and hook it into the 12mm fastening screw from SiDlas.

Tip: This variant is particularly useful if you have printed channels for the cord.



Variant 2
You simply print the cord line guide into your project. So all you have to do is install the cord retraction system with the cord.