

## Cable Installation Guide

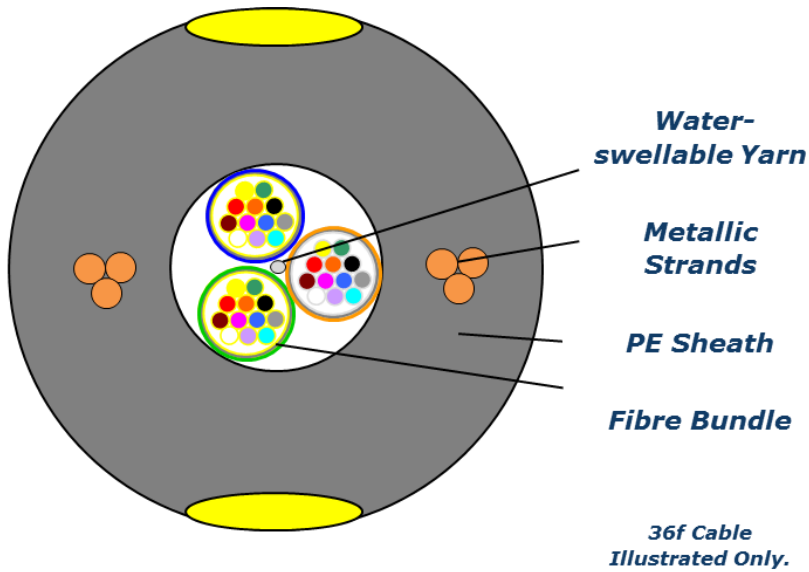
### Preparation Procedure For 36, 48 & 96f ULW Cables & DB Cables

#### CIG0090 WW

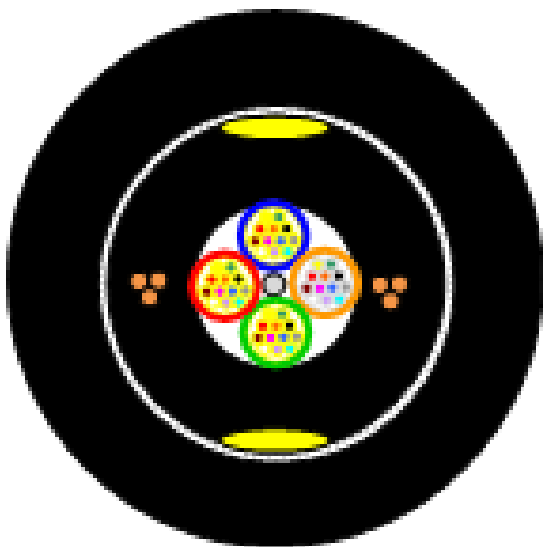
##### Product Application

This instruction details the preparation procedure for the Prysmian Group 36, 48 & 96f ULW Cables and the 36, 48 & 96f DB Cables

1. Aerial Cable



2. Direct Buried Cable








## Cable Installation Guide

### Precautions and Warnings

- ! This guide is only valid for products purchased from or approved by Prysmian Group.
- ! During this procedure all local Health & Safety statutory regulations must be adhered to.
- ! When using longitudinal cutters it is advisable to 'practice' on a dummy section of cable to ensure that the operation of the cutters does not damage the fibre bundle.
- ! When using the Lint Free Cloth **always** work towards the free end of the fibre bundle.
- ! In the event that the Lint Free Cloth becomes clogged with resin replace it to prevent it from damaging the optical fibres.
- ! Aerial cable mid-cable access can only be undertaken at a zero tension position e.g at a pole between 2 tension clamps.

### Tools and materials

<p><b>1. 36 &amp; 48f Drop Cable Stripper</b></p> <p>PN: XBFSC01759</p> 	<p><b>2. Replacement Cassette For 36 &amp; 48f Drop Cable Stripper.</b></p> <p>PN: XBFSC01762</p> <p style="text-align: center;">No Picture</p>	<p><b>3. Thin Nosed Pliers</b></p> <p>PN: n/a</p> 	<p><b>4. Wire Cutters</b></p> <p>PN: n/a</p> 
<p><b>5. Lint Free Cloth</b></p> <p>PN: n/a</p> 	<p><b>6. Cable Sheath Stripper</b></p> <p>PN: XBFSC00079</p> 		

## Cable Installation Guide

### Aerial Cable End Access Procedure

#### Step 1



Determine the amount of cable sheath to be removed and at the required distance mark the cable sheath.

## Cable Installation Guide

### Step 2



Assemble the cable stripper around the cable at this point.

**To ensure that the cutter blades do not get damaged ensure that they are positioned on the yellow line on the cable sheath.**

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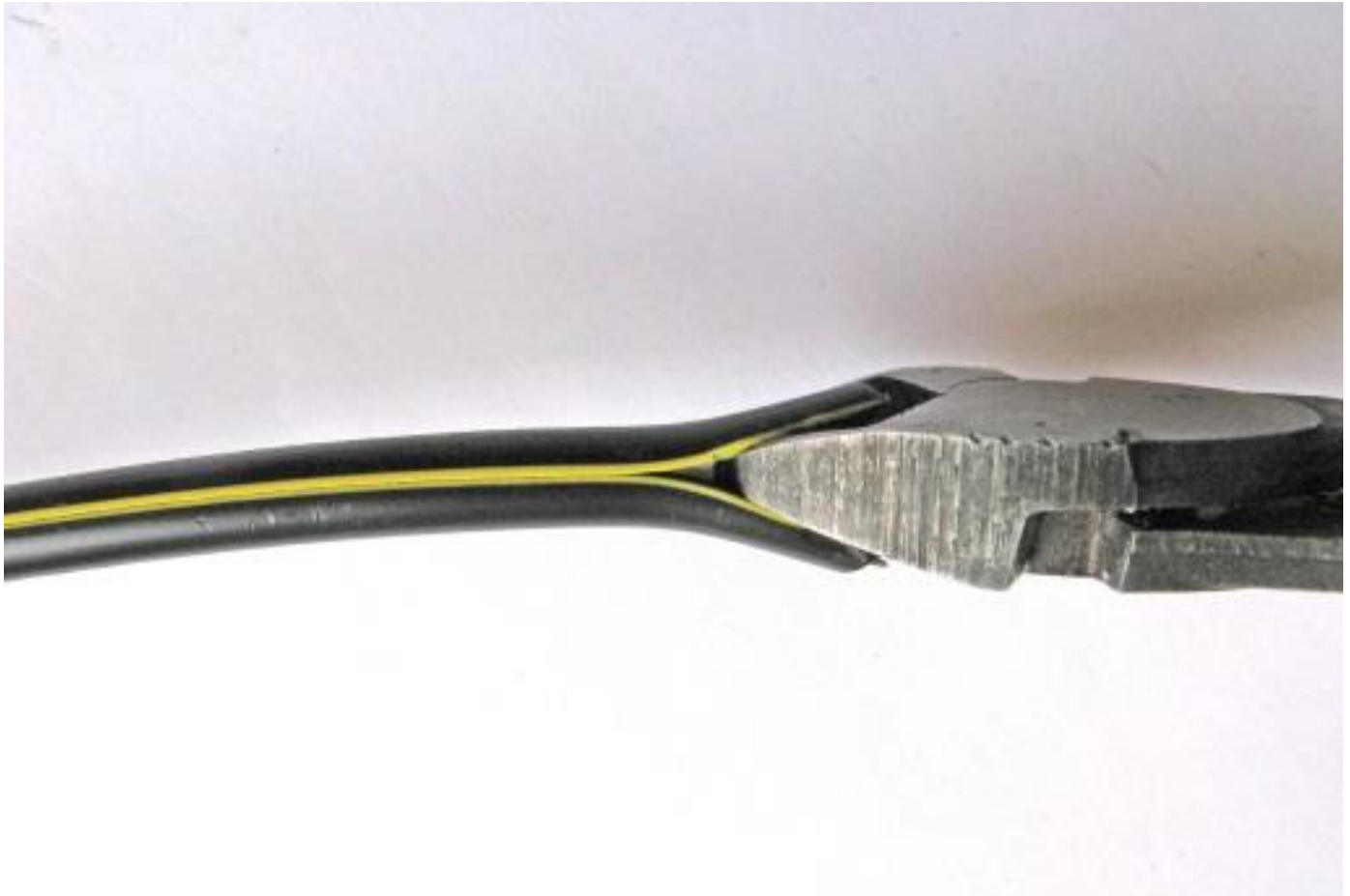
### Step 3



Pull the cable stripper along the cable towards the free end of the cable.

## Cable Installation Guide

### Step 4



Using the wire cutters cut along the two cuts.

## Cable Installation Guide

### Step 5



Split the two halves of sheath to expose the fibre units.

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### Step 6

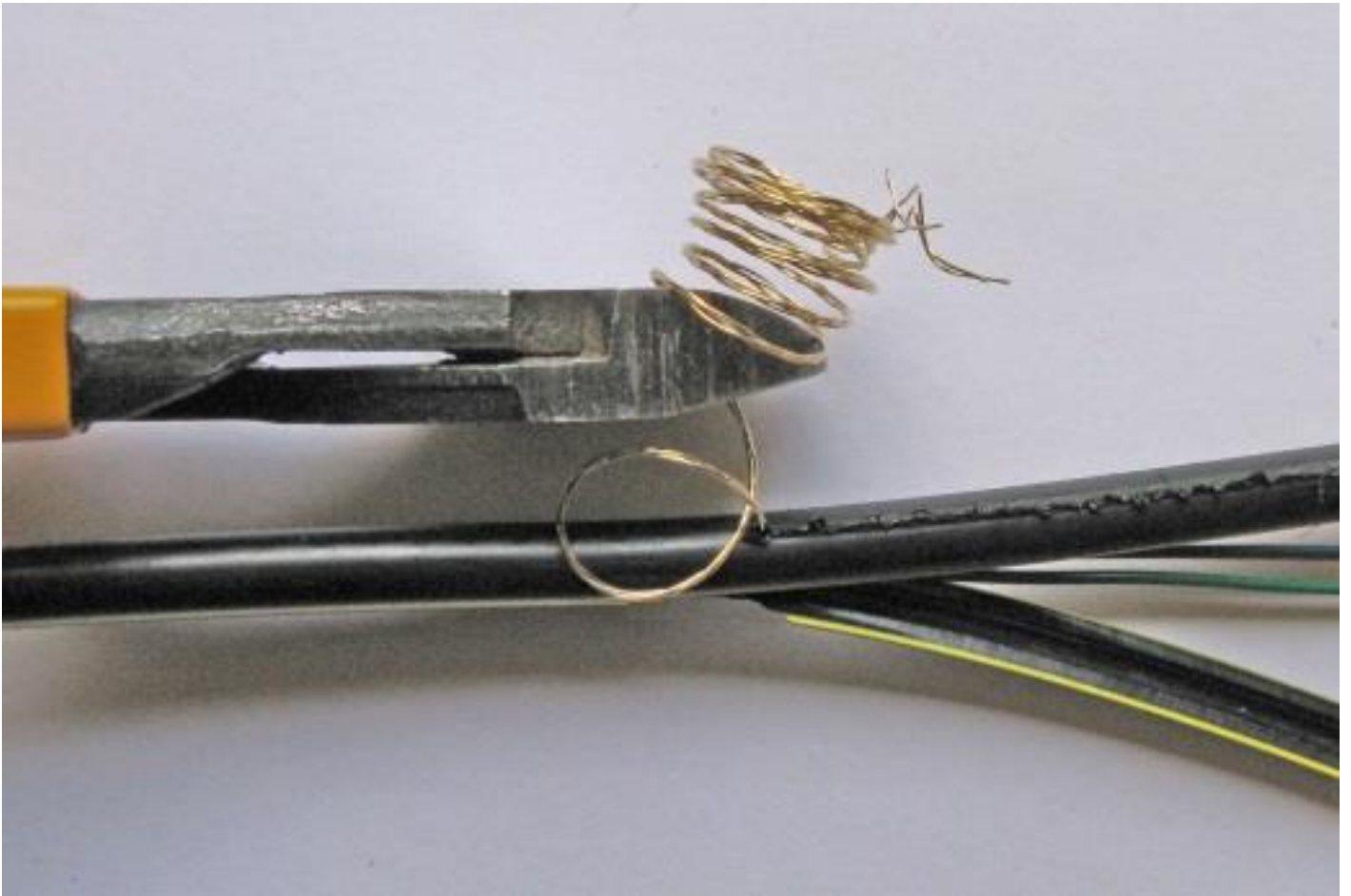


In the event that cable anchoring is required within the optical fibre joint remove one of the steel wire strength members from the split sheath using two pairs of pliers.  
If not then go to step 8.



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### Step 7



Cut the steel wire strength member to the required length.

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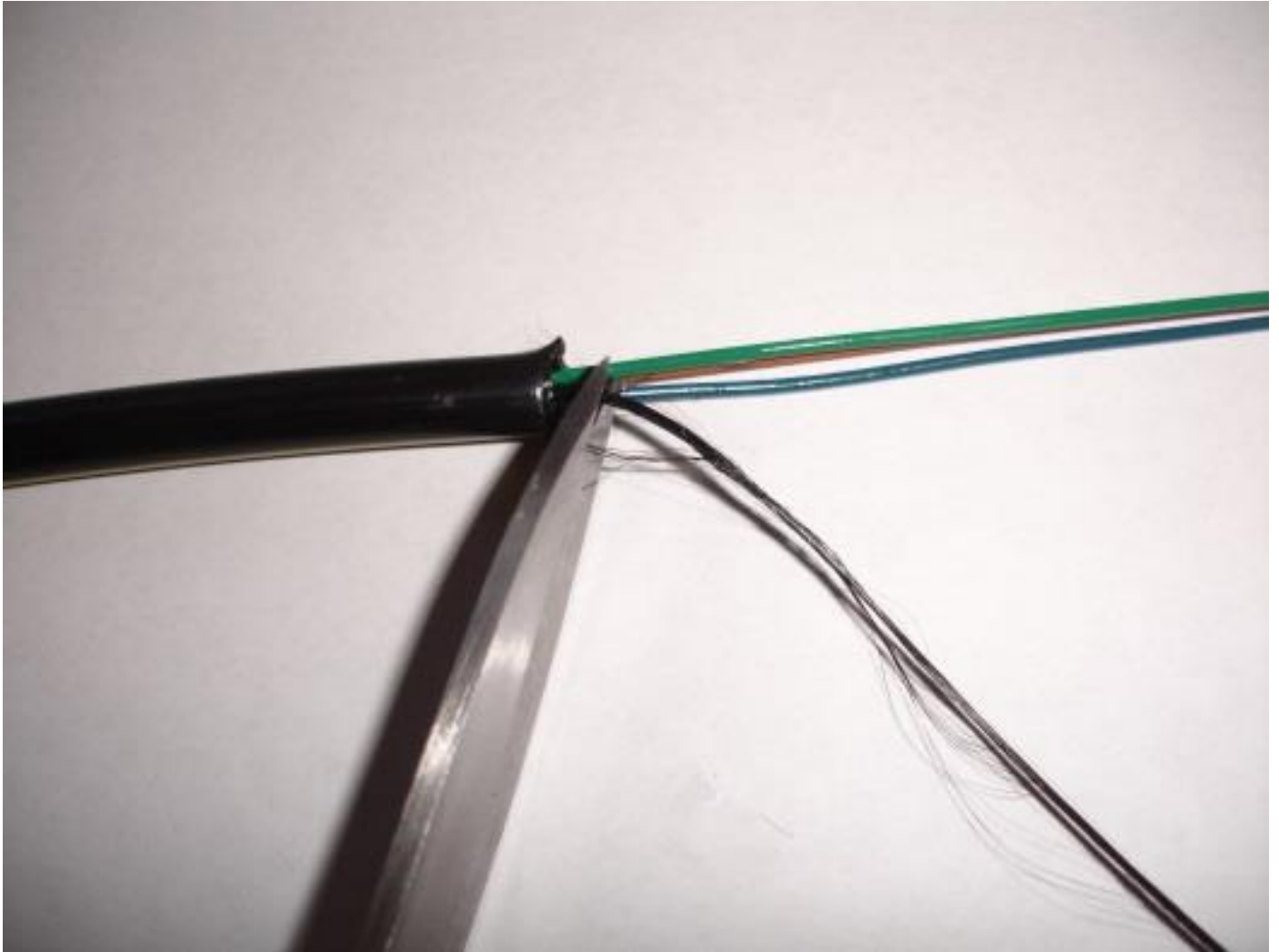
### Step 8



Cut the sheath at the point identified in step 1.

## Cable Installation Guide

### Step 9



Using scissors cut the water swellable yarn(s) off.

## Cable Installation Guide

### Aerial Mid-Cable Access Procedure

#### Step 1



Determine the amount of cable sheath to be removed and mark the cable sheath at the required points.

## Cable Installation Guide

### Step 2



Assemble the cable stripper around the cable at one of these point.

**To ensure that the cutter blades do not get damaged ensure that they are positioned on the yellow line on the cable sheath.**

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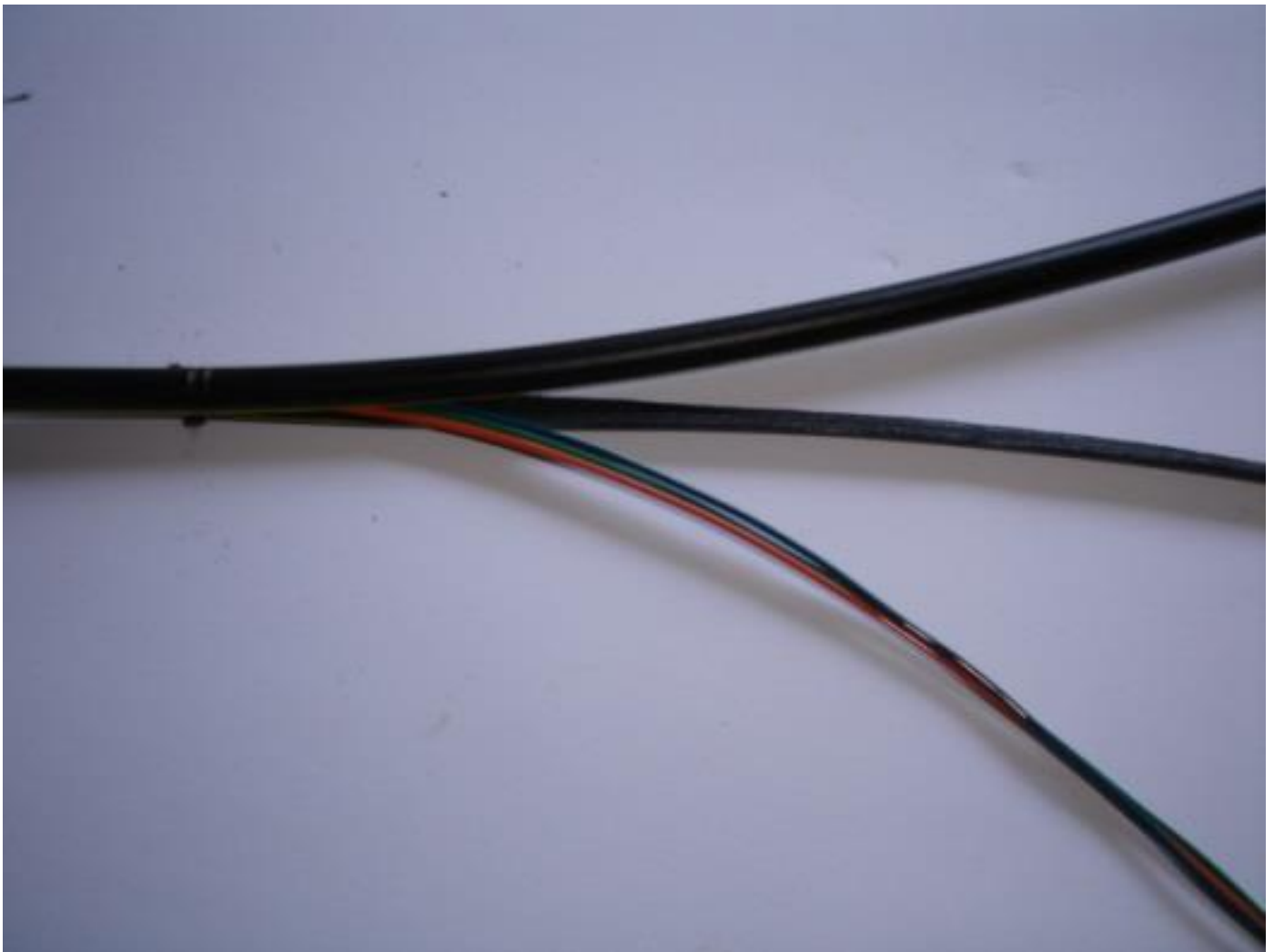
### Step 3



Pull the cable stripper along the cable towards the free end of the cable.

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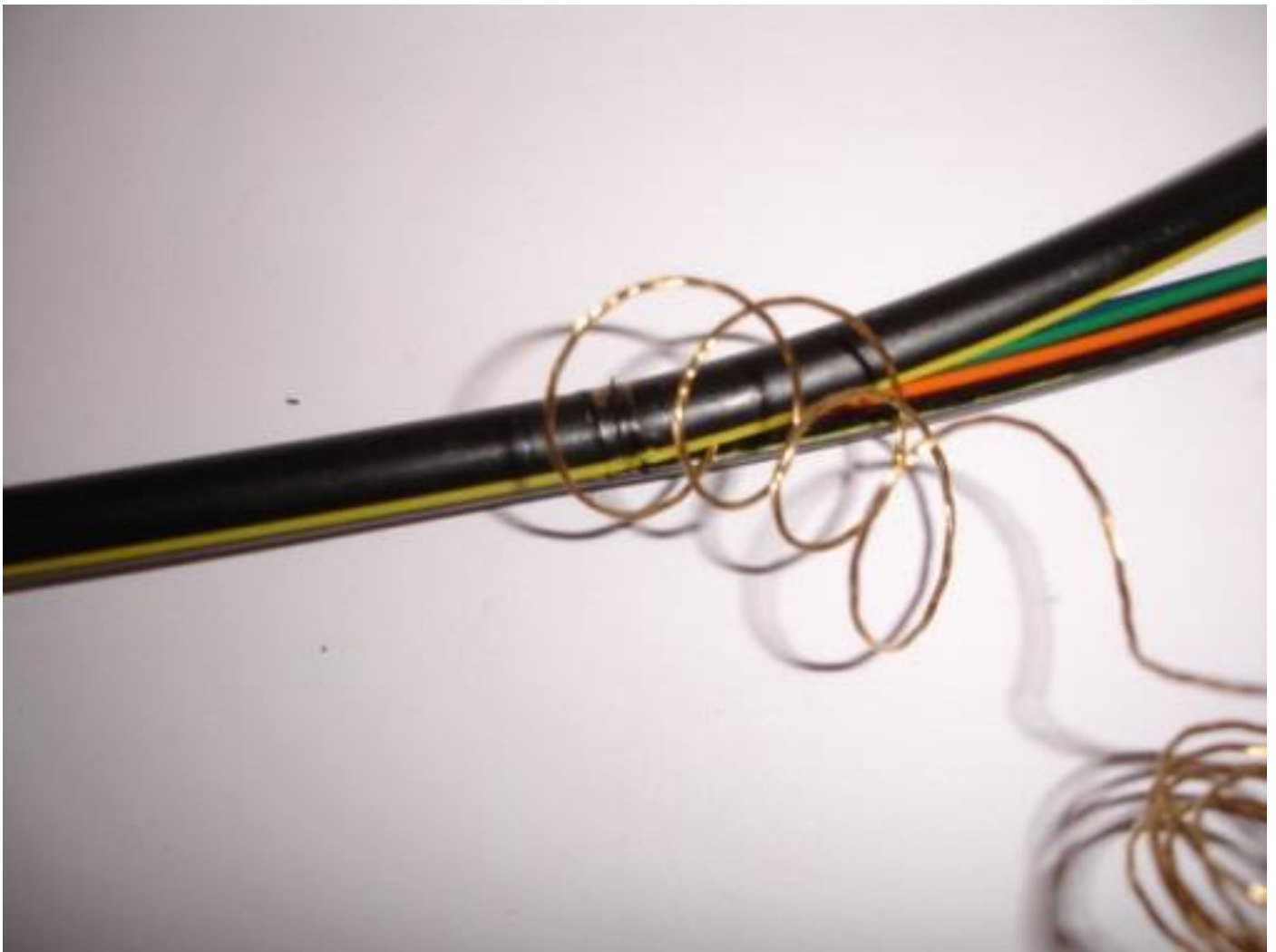
### Step 4



Flex the cable to enable the cable to be split into two halves thus exposing fibre units. Alternatively a suitable approved tool can be used to separate the two halves of cable sheath.

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### Step 5

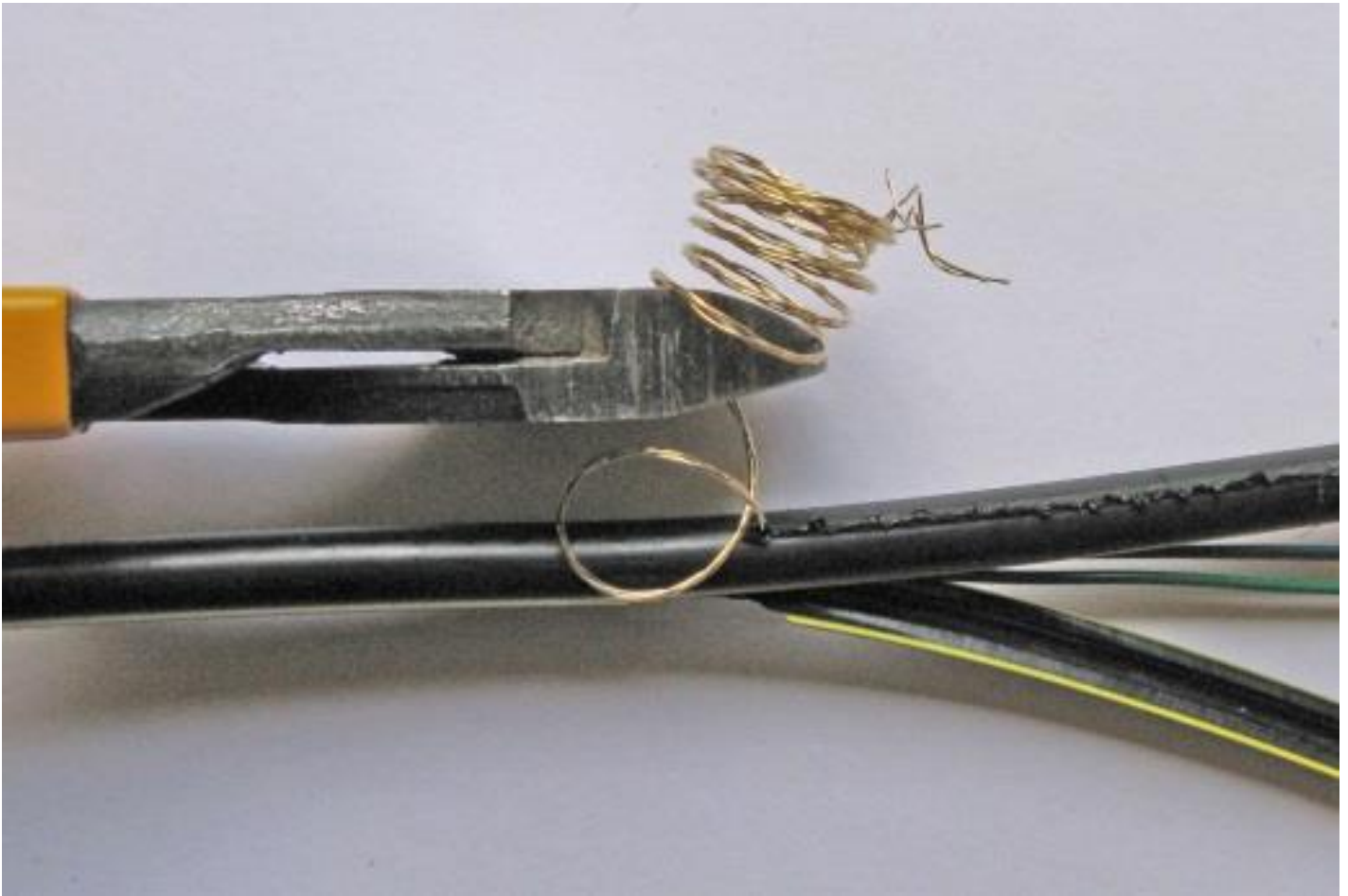


In the event that cable anchoring is required within the optical fibre joint remove one of the steel wire strength members from the split sheath using two pairs of pliers.  
If not then go to step 7



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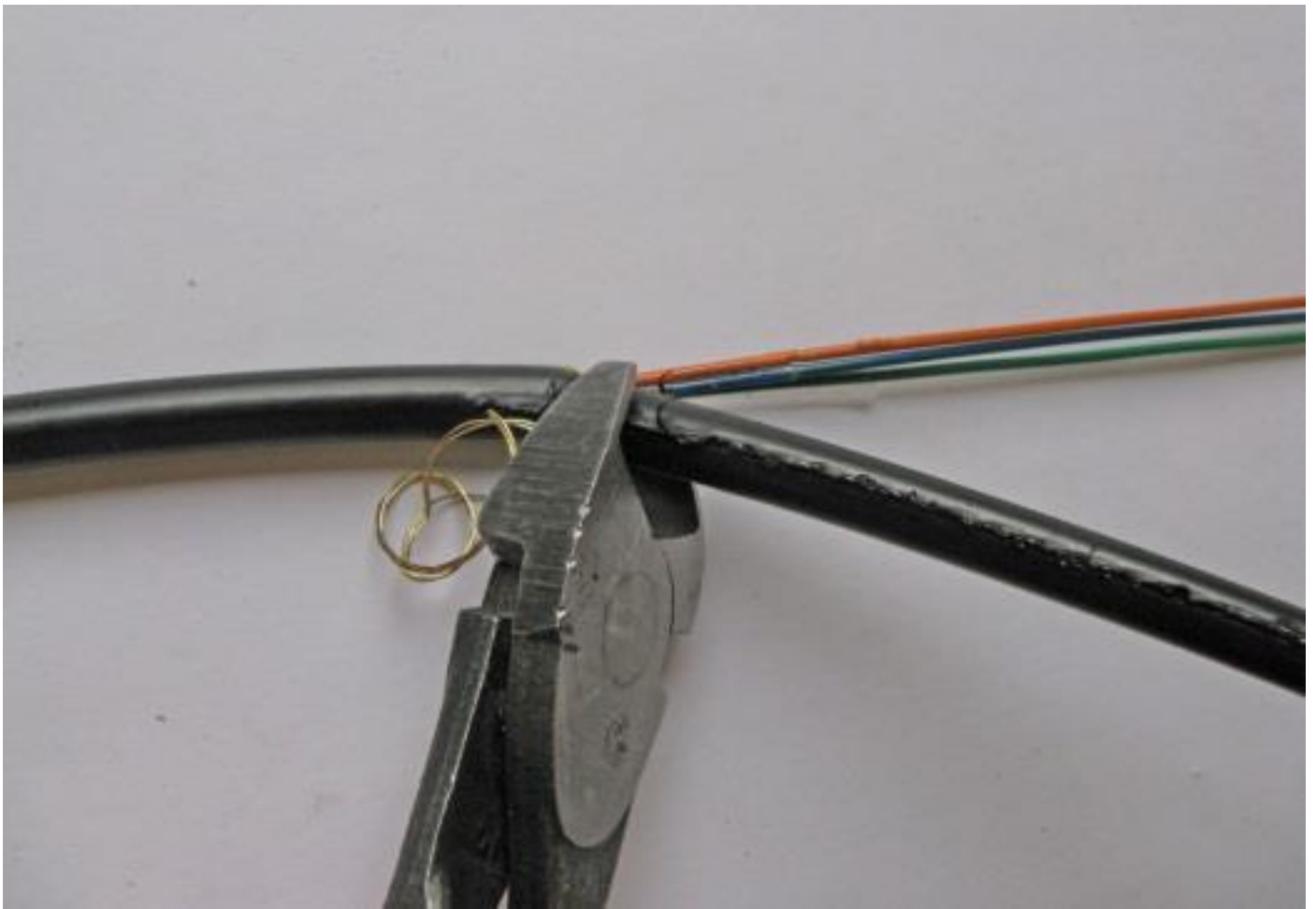
### Step 6



Cut the steel wire strength member to the required length.

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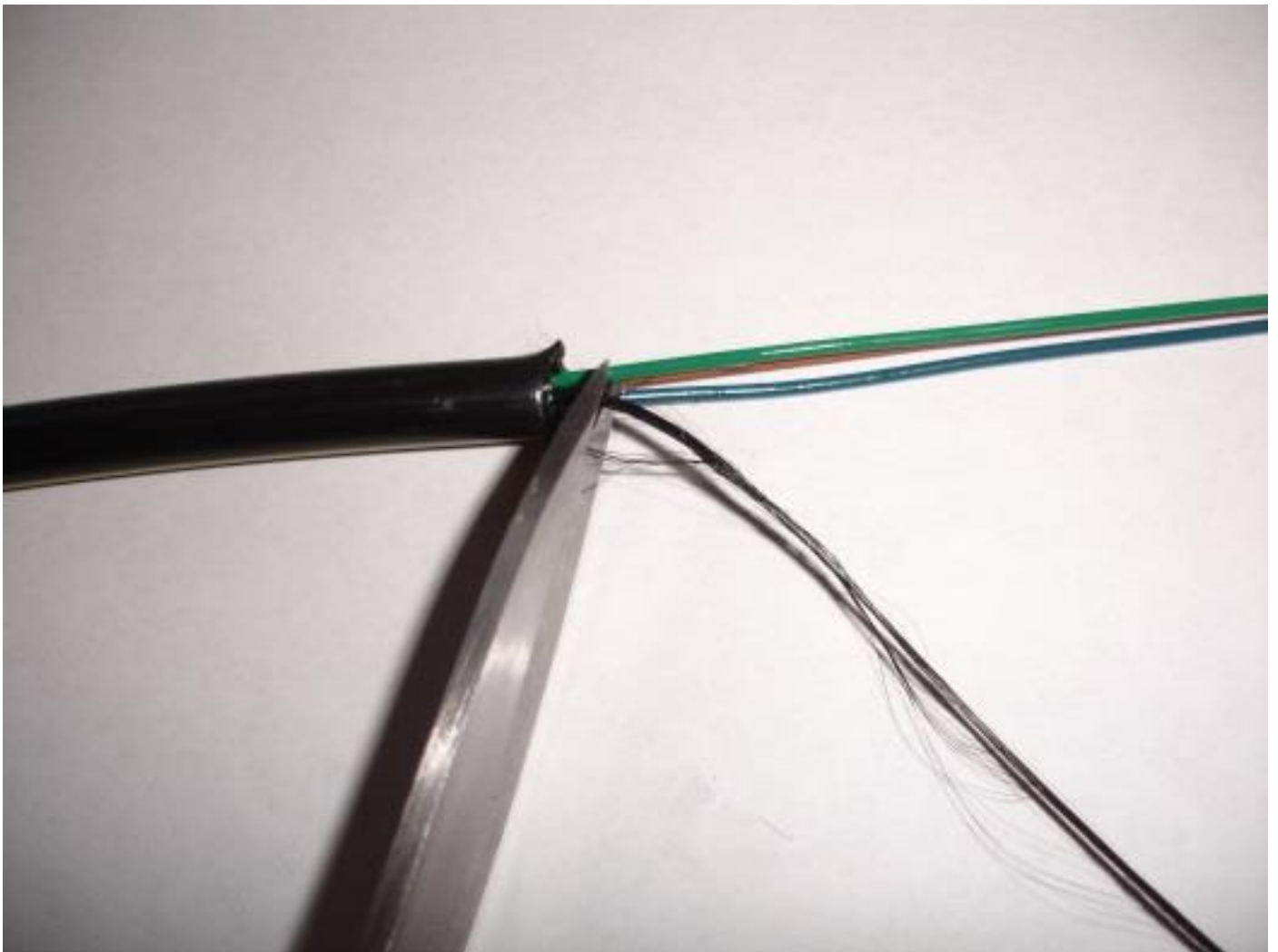
### Step 7



Cut the sheath at the points identified in step 1.

## Cable Installation Guide

### Step 8



Using scissors cut the water swellable yarn(s) off.

Refer to the relevant Fibre Bundle Stripping Procedure

## Cable Installation Guide

### Direct Buried Cable End Access Procedure

#### Step 1



Determine the amount of cable sheath to be removed and mark the cable sheath at the required points.

## Cable Installation Guide

### Step 2



Apply a circumferential cut to cable sheath.  
**Ensure that the inner cable sheath is not damaged.**

## Cable Installation Guide

### Step 3



Remove the cable sheath.

## Cable Installation Guide

### Step 4



Cut and remove the water swellable tape

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### Step 5



Assemble the cable stripper around the cable at the point where the outer cable sheath ends .  
**Ensure that the cutter blades are positioned on the yellow line on the cable sheath.**



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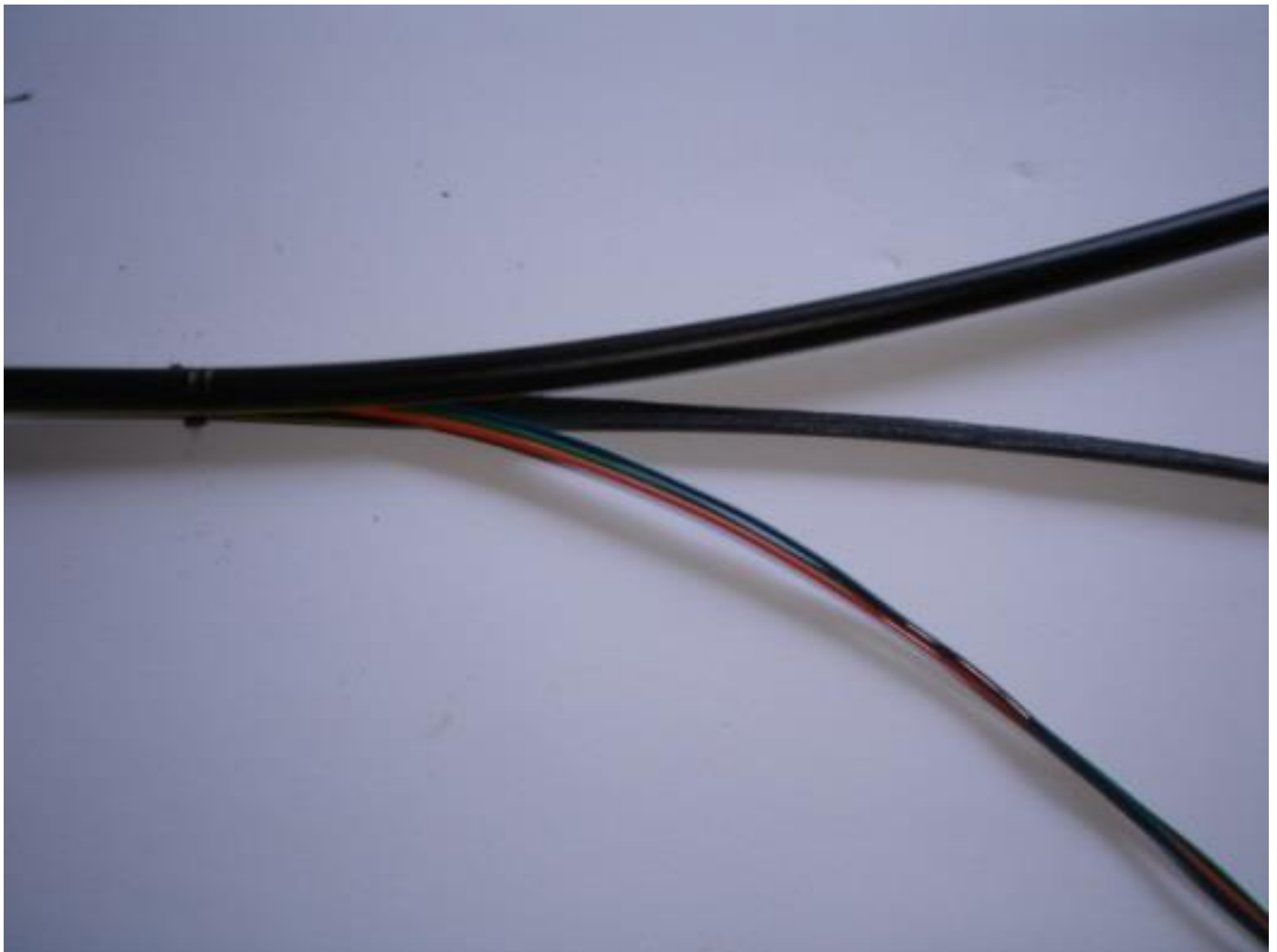
### Step 6



Pull the cable stripper along the cable towards the free end of the cable.

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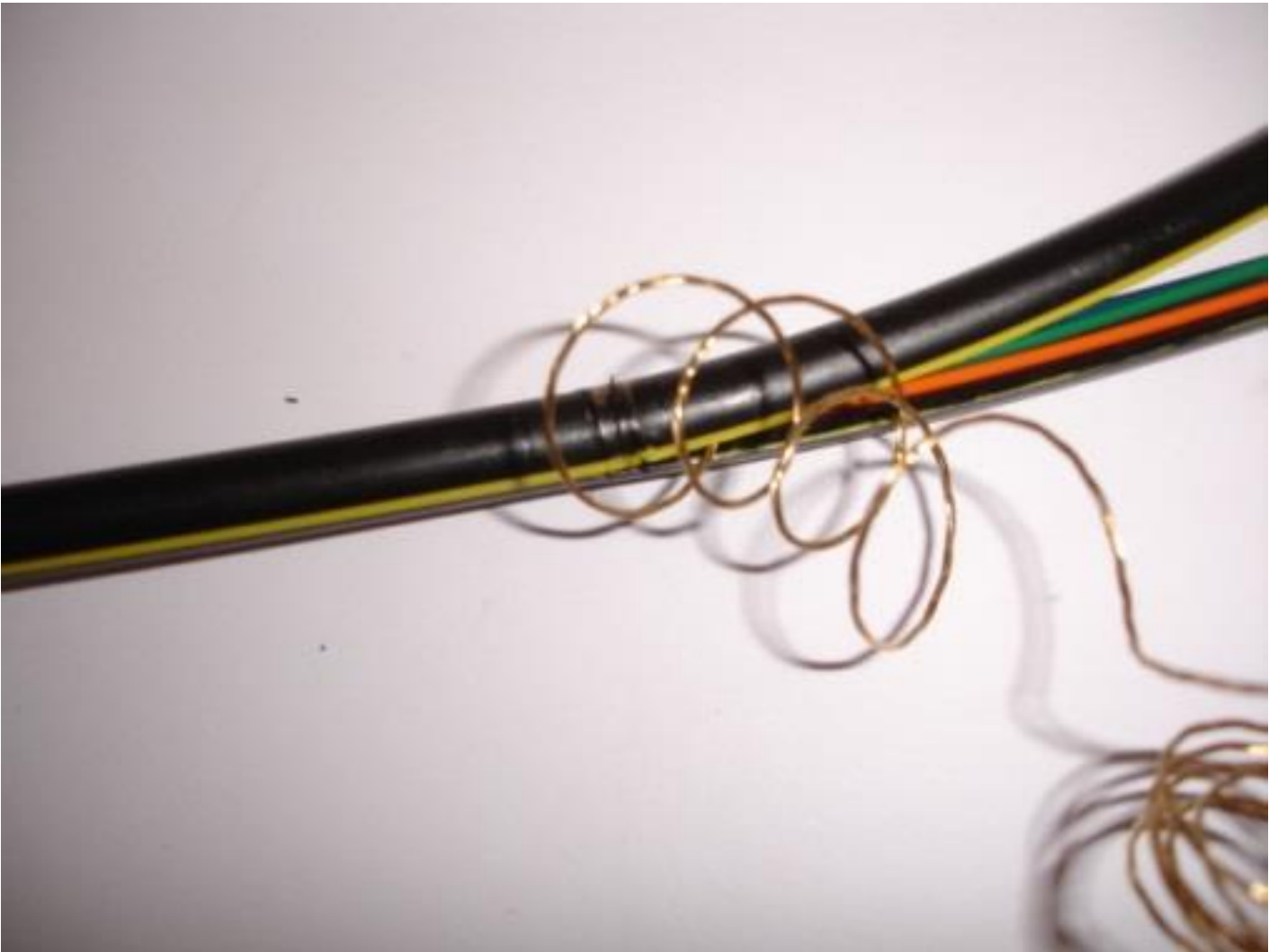
### Step 7



Flex the cable to enable the cable to be split into two halves thus exposing fibre units.

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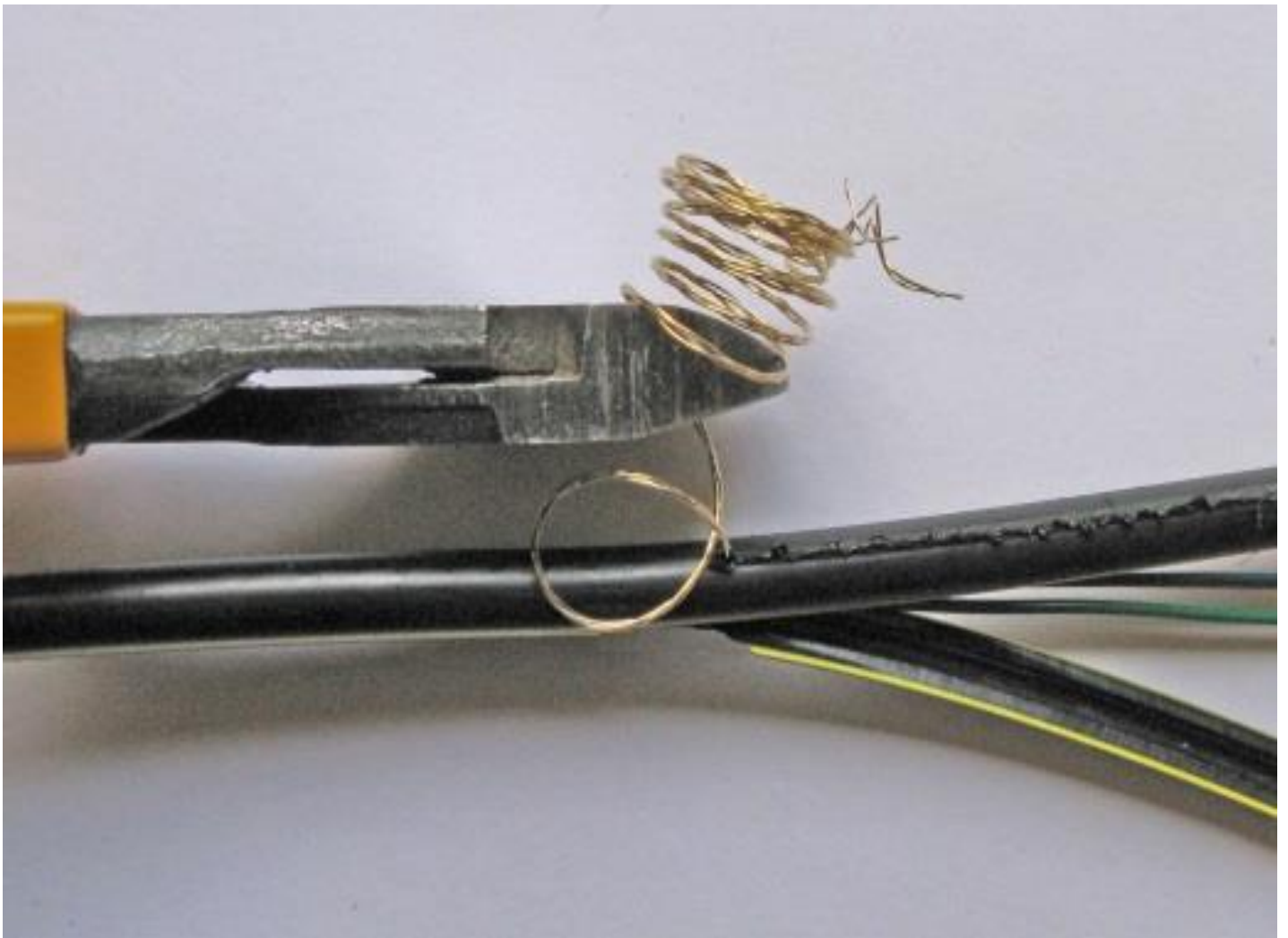
### Step 8



In the event that cable anchoring is required within the optical fibre joint remove one of the steel wire strength members from the split sheath using two pairs of pliers.  
If not then go to step 10.

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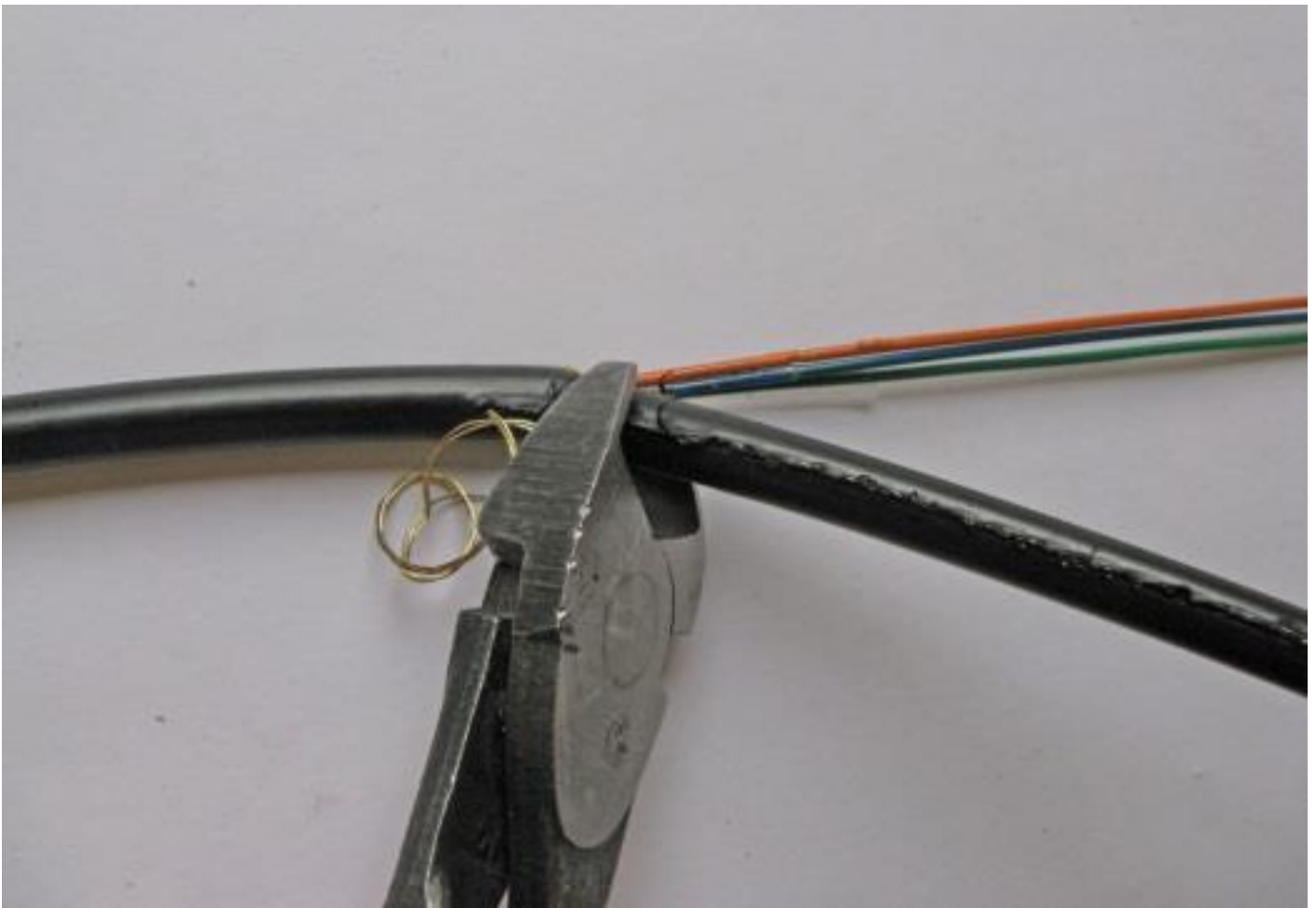
### Step 9



Cut the steel wire strength member to the required length.

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### Step 10

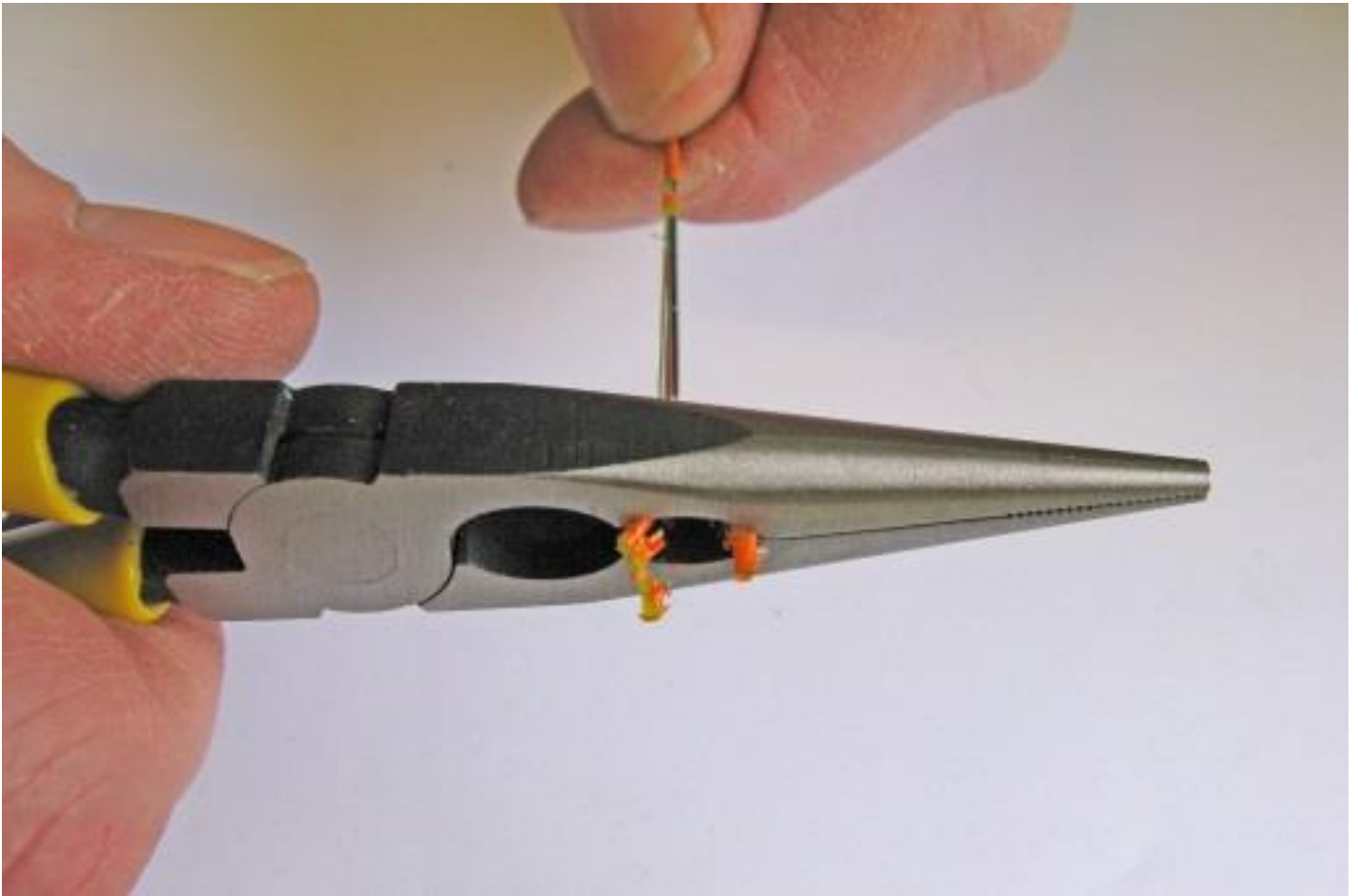


Cut the sheath at the point where the cable stripper was clamped around the cable in step 5.

## Cable Installation Guide

### Fibre Bundle Preparation Procedure

#### Step 1



Using the thin nosed pliers remove 20mm of coating from the fibre bundle.

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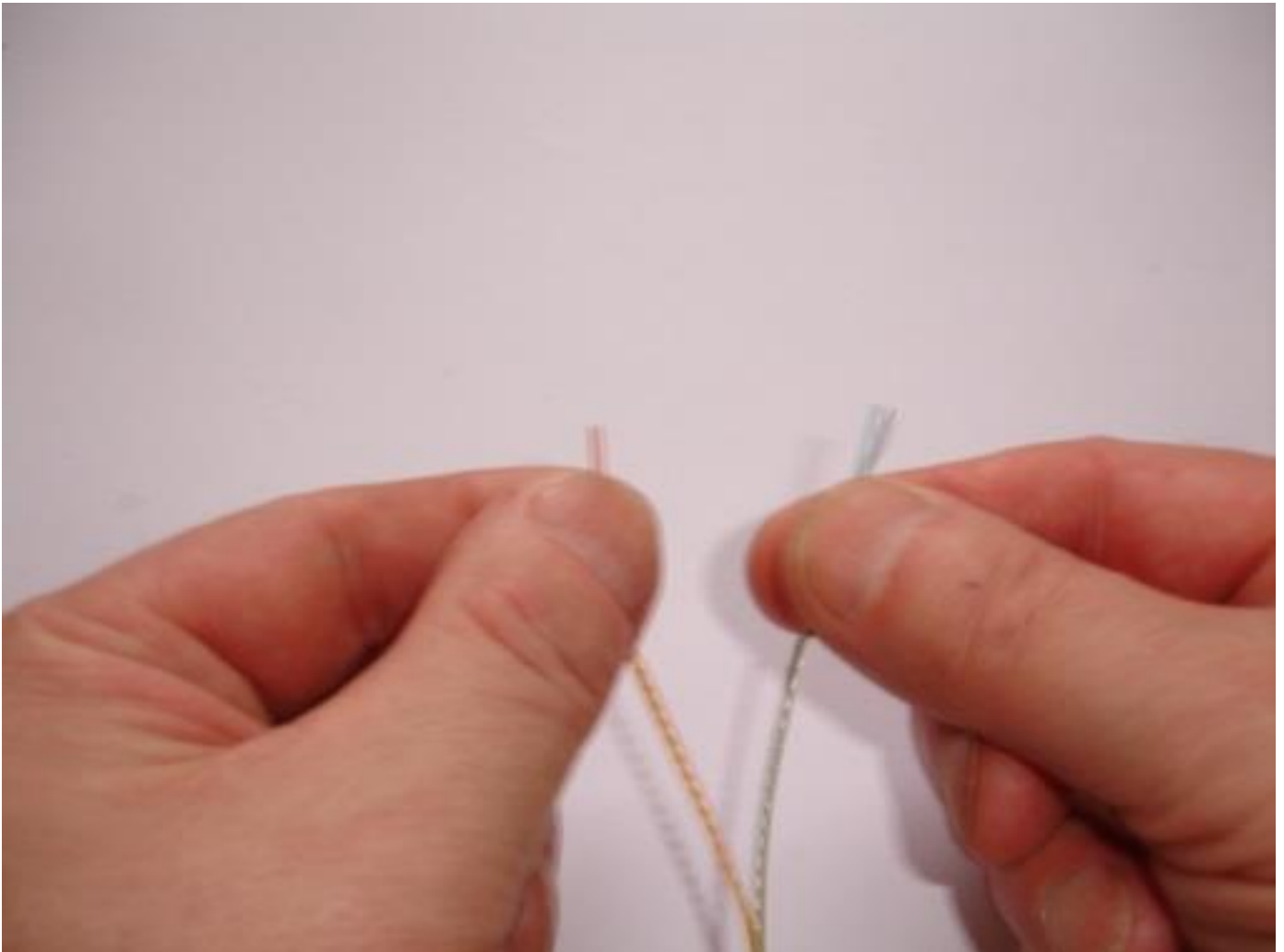
### Step 2



Using the lint free cloth remove 20mm of coating from around the optical fibres.

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### Step 3



Whilst holding 6 optical fibres in each hand gently pull the fibre groups apart.



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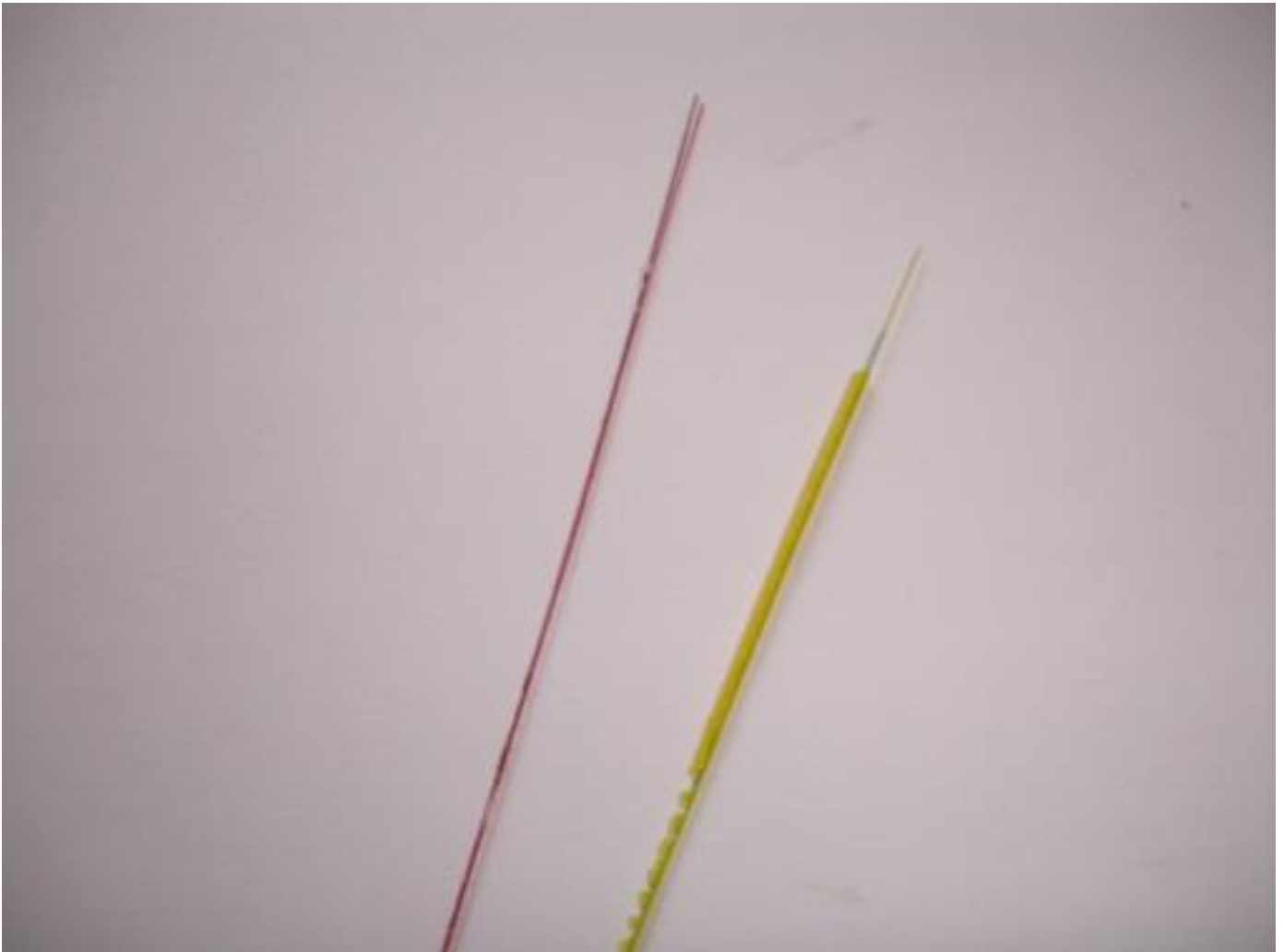
### Step 4



Taking one of the groups of optical fibres split it down into two groups of 3 fibres each.

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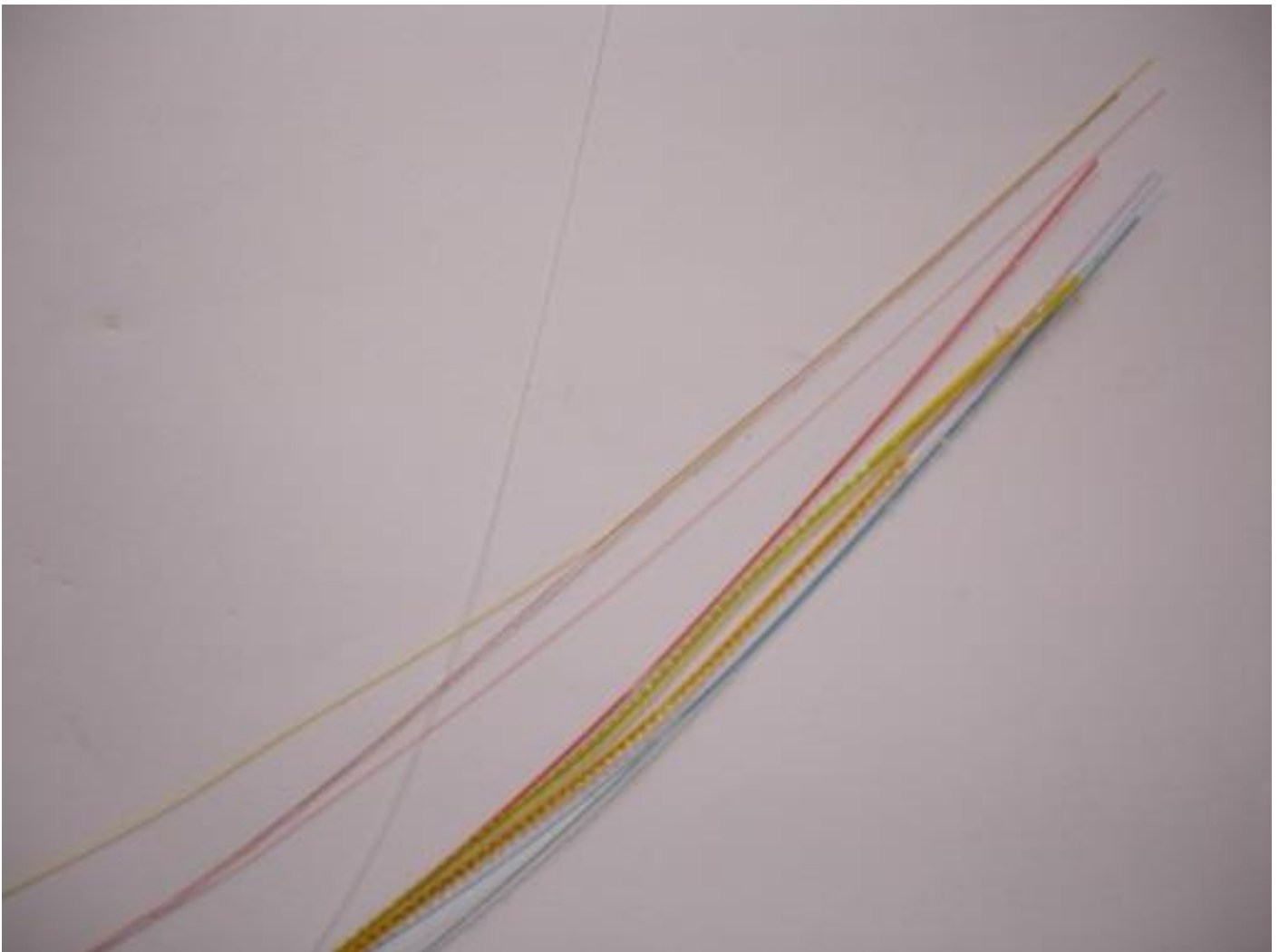
### Step 5



Repeat Step 4 with the other group of optical fibres.

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### Step 6



Continue splitting the groups of optical fibres until there are 12 individual fibres.

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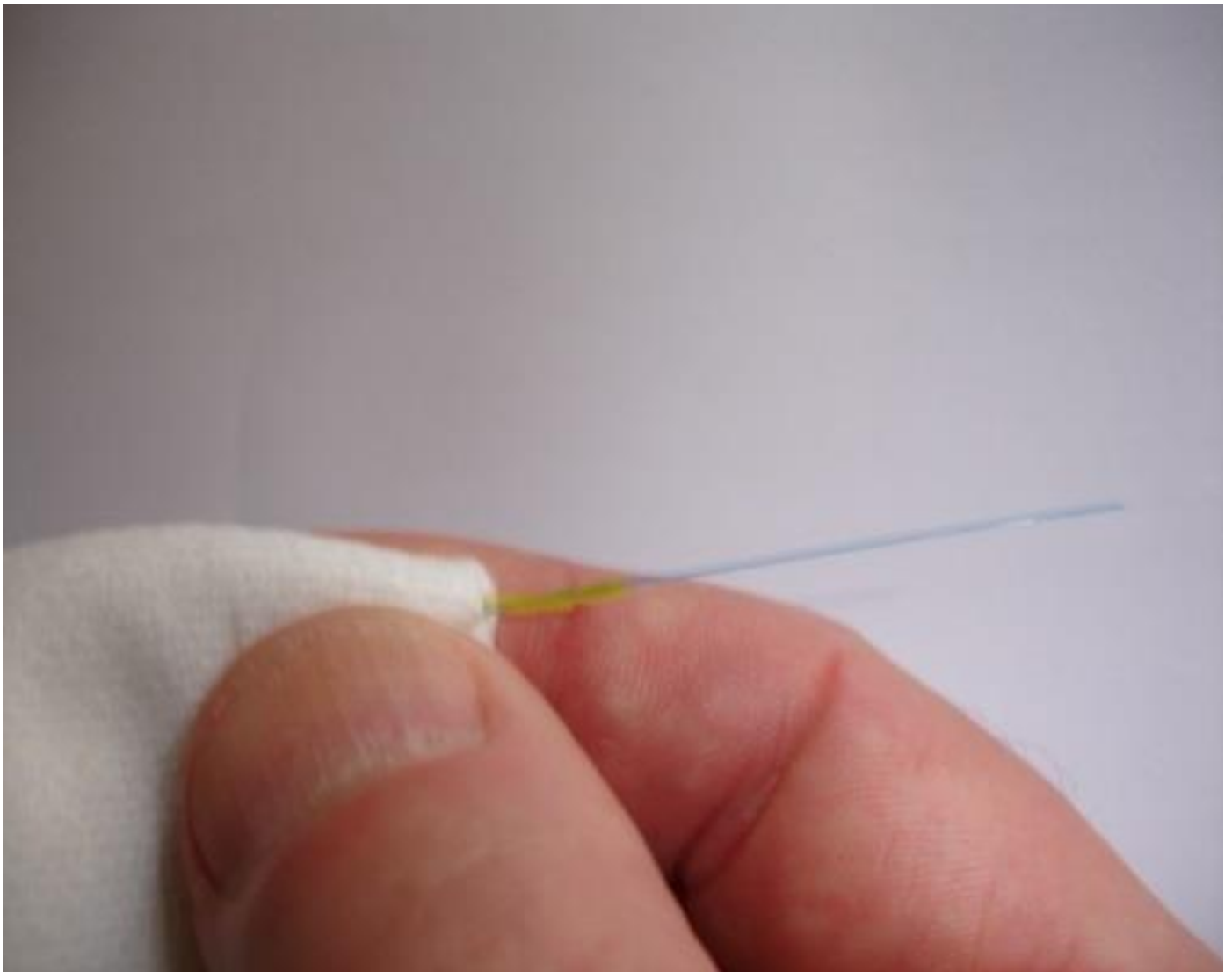
### Step 7



The unit coating will remain on a few of the individual optical fibres.

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### Step 8



Starting at the free end of the fibre gently remove the resin from the fibre using the lint free cloth. The coating should be removed towards the free end of the fibre 100 mm sections.

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### Step 9



Using the lint free cloth give the optical fibres a final wipe to ensure that there is no more resin on the optical fibres.

**Follow the relevant instructions to configure the cable into the optical fibre joint.**

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### PBT Tube Fibre Preparation Procedure

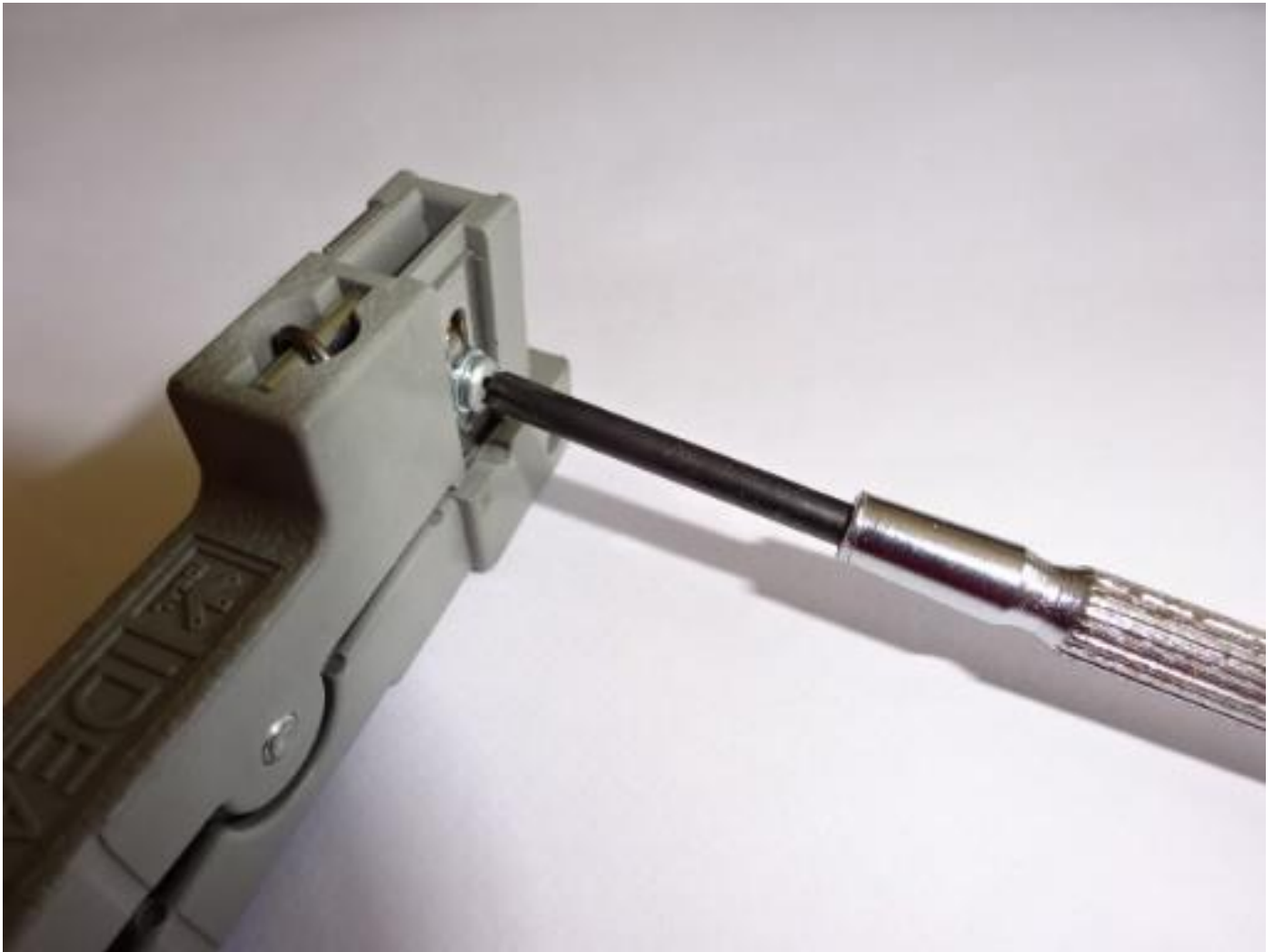
#### Step 1



On a sample of tube check the setting of the peg cutter to ensure that the optical fibres are not damaged by the operation of the cutter.

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### Step 2

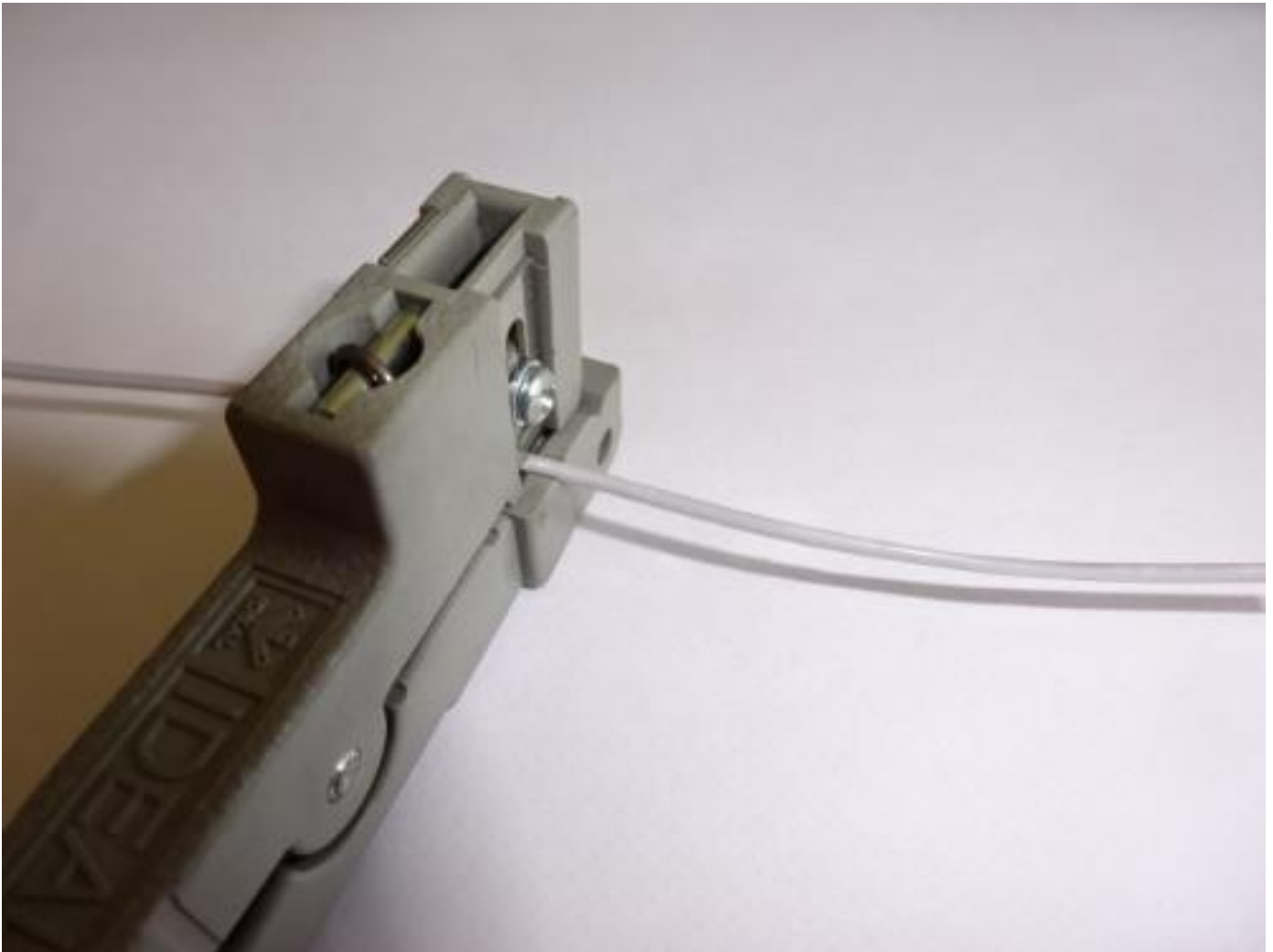


If required adjust the cutter depth to ensure that the optical fibres are not damaged.



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### Step 3



Re-test on another sample of tube to confirm setting

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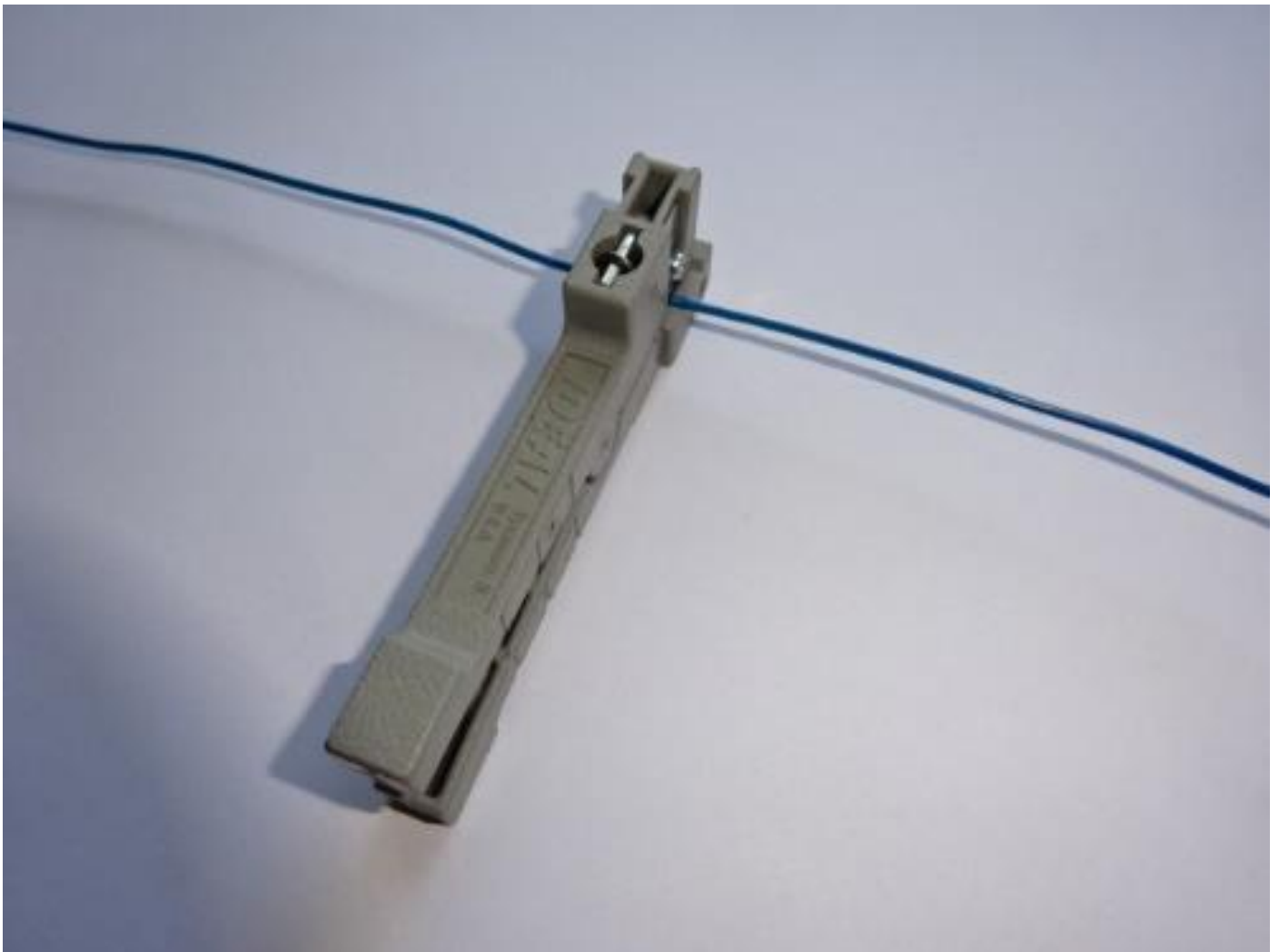
### Step 4

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Determine the amount of optical fibre that needs to be removed from the tube.

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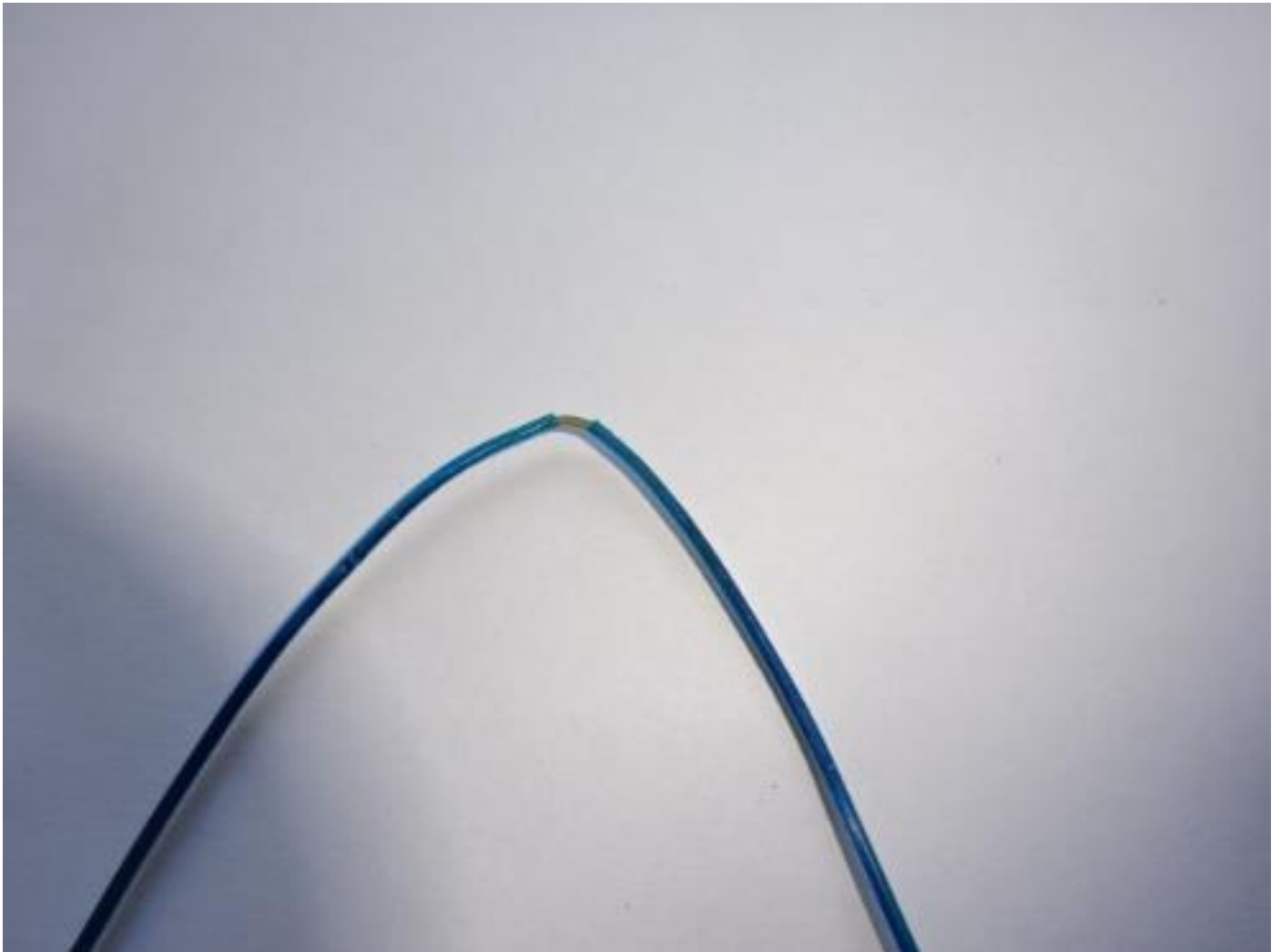
### Step 5



At a position 300mm from the end of the tube apply a circumferential cut.

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### Step 6



If required gently flex the tube to break it.

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### Step 7



Remove the tube from around the optical fibres.

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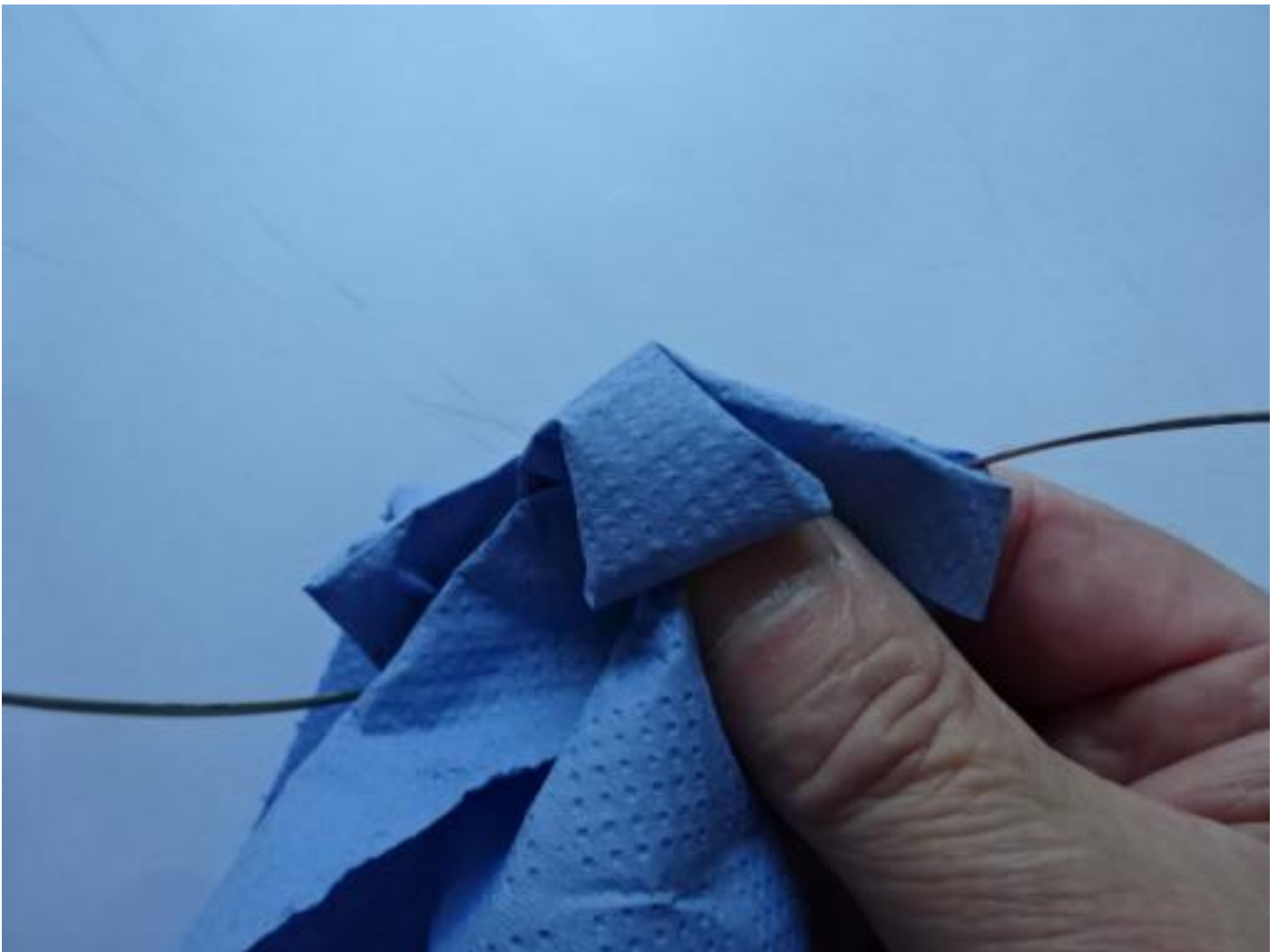
### Step 8

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Repeat Steps 5 to 7 until the optical fibres are exposed up to the point identified in Step 4.

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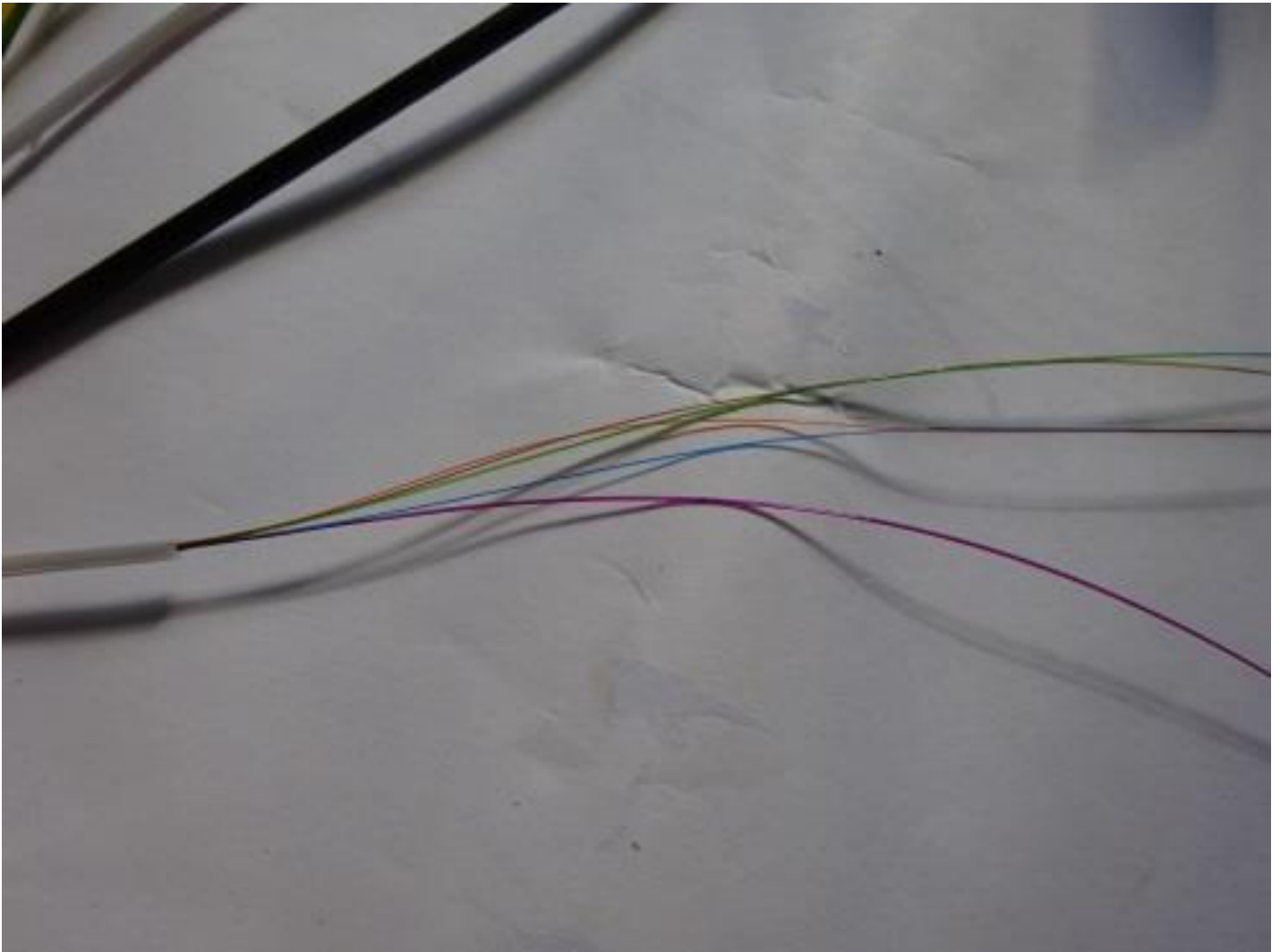
### Step 9



Using a cloth with a suitable cleaning fluid e.g. IPA remove the grease from around the optical fibres.

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### Step 10



Separate the optical fibres.

**Follow the relevant instructions to configure the cable into the optical fibre joint.**

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## Cable Installation Guide

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