Ref: OI - 002

SIROCCO TUBE INTEGRITY & LENGTH TESTER (STILT)

Operating Instructions

Description

sirocco®

- Provides a method for determining the length of a blown fibre tube.
- Provides a method for pressure testing a length of blown fibre tubing.

The determination of the route length <u>must</u> be undertaken prior to the pressure testing of the route unless a period of 15 minutes has elapsed between the tests.

- Provides a method for checking for and clearing water from a blown fibre tube.
- Provides a method for checking for blockages within a blown fibre tube.
- All operators must comply with any local statutory Health & Safety regulations.
- Working with Compressed Air is potentially dangerous and any operator following these procedures must have successfully completed a Prysmian Cables & Systems UK Ltd approved training course.

Equipment Required

Equipment Required:	Part No.
Sirocco Compressor (Petrol) or	XBFSC00002
220/240v DC (Electric)	XBFSC00013
STILT	XBFSC00030
Tube End Stop	XBFSC00076
Tube Cutter (part of kit 820/5) or	XBFSC00011
Individually	XBFSC00078
Air stone (part of kit 820/5) or	XBFSC00011
Individually	XBFSC00052
5 – 5mm Tube Connector	XBFSC00075

Equipment



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Ancillary Equipment			
Tube End Stop	Qty 1	Tube Cutter	Qty 1
Air Stone	Qty 1	5 - 5mm Tube Connecto	or Qty 1

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Measurement of the Length of a Blown Fibre Tube



Identify the tube to be tested and ensure • that the ends of the tube are cut cleanly.



Place a Tube Sealing Cap onto the tube . at the remote end of the route. Ensure that the sealing cap is tightened fully.



Connect the compressor hose to the . STILT.





Close the outlet valve.



Start the compressor



• Open the compressor valve.





Fill the reservoir with compressed air. This will take approx. 2 minutes.

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Close the inlet valve. If the air pressure • indicated on the gauge, drops below 10 bars open the inlet valve and continue to fill the reservoir.



Using the system vent valve regulate the gauge needle to lie on the start line.



During the adjustment process if the air pressure drops below 10 bars open the inlet valve to increase the air pressure within the reservoir. Repeat Step 12



Close the compressor valve. .



• Switch off the compressor.



Connect the tube to the STILT using • the correct connector. An extension piece of tubing can be used if required.



Open the outlet valve •



The pressure gauge will indicate a pressure drop. Wait until the gauge needle stops falling.

This will take up to 10 minutes.



When the gauge needle has stopped . falling the length of the route can be read from the gauge.

If the gauge needle falls to 0 this indicates that there is an air leak in the tube.

Ensure that the reading is taken from the appropriate scale that corresponds to the tube size.

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Pressure Testing of a Blown Fibre Tube Following On From Step 19





Close the outlet valve.



Start the compressor.



Open the compressor valve.





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• Allow the route to become pressurised to above 10 bars.

This may take up to 10 minutes.



Close the inlet valve.



Shut the compressor valve. •



Switch off the compressor. •



Note the pressure at which the route is • fully pressurised.



• If the air pressure drops below this figure and continues to drop to 0 it indicates that there is a leak in the route.





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Test Procedure (Checking for Water)

Following On From Step 33





Remove the blown fibre tube at the output side of the STILT.



Insert a small piece of sponge (10mm long x 5mm dia) into the blown fibre tube.







Step 39



Start the Compressor and open the outlet valve on the compressor.





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The sponge will be blown through the route removing any water that is trapped in the blown fibre tube.

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• If water is seen to be removed from the route repeat steps 27 to 34 again. Do not attempt to disconnect any of the blown fibre tube until the entire route is at atmospheric pressure.



Close the outlet valve on the compressor . and switch it off in the recommended manner.



Test Procedure (Checking For Blockages)

Following On From Step 44







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sample will be caught in the ceramic stone.



indicates that there is a blockage in the route.



• Close the outlet valve on the compressor and switch it off in the recommended manner.



Do not attempt to disconnect any of the blown fibre tube until the entire route is at atmospheric pressure.

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