

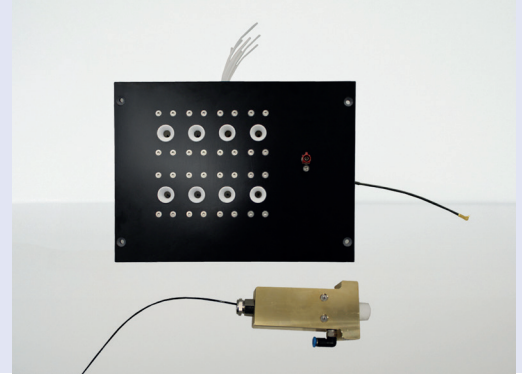
PNEUMATIC CABLE CONTACTING

For cable modules with open end

Take your cable production and testing to the next level

Nowadays and in the future, cables are indispensable in almost all areas of life. They not only transmit energy or signals, but also fulfill specific requirements and transmissions depending on their intended use. By using fine needles, our pneumatic cable contacting system offers a contamination- and maintenance-free solution for testing open-ended cable modules without having to strip them before testing.

Guarantee first-class quality with our efficient and precise pneumatic cable contacting!



General data

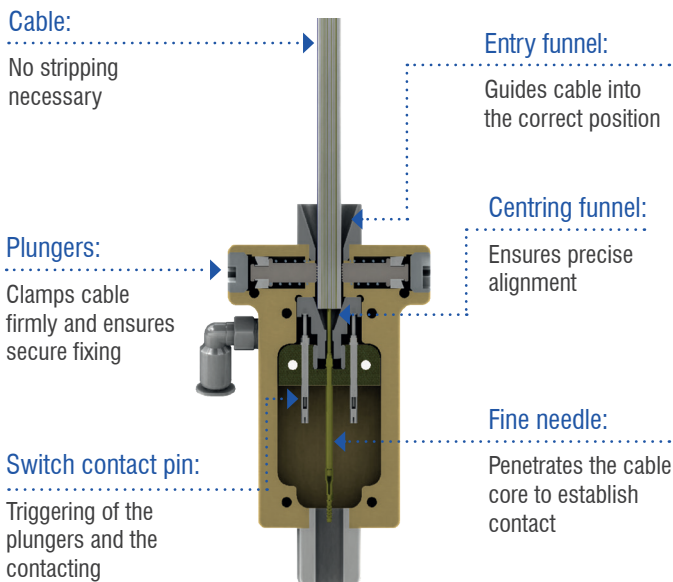
Product:	Pneumatic cable contacting
Available versions:	1-4 mm ² 6-16 mm ² (cross section) Both versions are also available as high frequency versions
On request:	Other cross section sizes are available on request

Unique selling points

For efficient and non-destructive testing

Our innovative technology is designed to adapt seamlessly to the individual requirements of a wide range of production environments. Available both as a stand-alone module and as a fully configurable workstation, it offers maximum flexibility and can be easily integrated into existing systems.

The modular design enables uncomplicated customisation and expansion. In this way, we guarantee comprehensive, safe and reliable testing of the cable connections without damaging the sensitive cable ends.



Functionality

Pneumatic cable contacting is an advanced technology for testing open-ended cable modules that aims to make the testing process efficient and safe. Due to the automated interlocking, the test can be performed both manually and automatically.

How our technology works

1. Cable entry:

The cable to be tested is inserted into the test device without prior stripping.

2. Centring and fixing:

The cable is brought into the correct position via an entry funnel, while the centring funnel underneath ensures precise alignment. Once the cable has been centred, a switch contact pin automatically activates two pneumatic plungers that clamp the cable. This clamping ensures that the cable is correctly fixed and does not slip during the test.

3. Signaling and contacting:

As soon as the cable has been securely fixed, a fine needle, controlled by another switch contact pin, penetrates the core of the cable. This is designed in such a way that it does not damage the insulation of the cable and therefore has no effect on its integrity. As soon as the contact is successfully established, the test procedure starts automatically.

4. Test execution:

Depending on the requirements, various tests such as continuity tests, resistance measurements or short-circuit tests are performed to ensure the functionality and quality of the cable.

5. End of test and removal:

Once the test is complete, the cable clamp is released by an external signal, e.g. from a tester or pushbutton, so that the cable can be removed. The entire process is designed to minimise manual intervention and maximise efficiency.

Thanks to the structured and automated procedure, pneumatic cable contacting offers a reliable and safe method for testing individual cables that is suitable for both individual and series production.