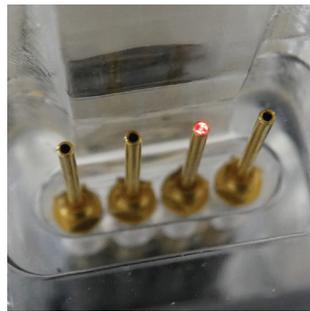


Contact Probes For
MARKET LEADER
Wire Harness Test

LED CONTACT PROBE

FOR GUIDED TERMINAL INSERTION



LED CONTACT PROBE 100 MIL

Contact Probe with LED Indicator for Guided Terminal Insertion

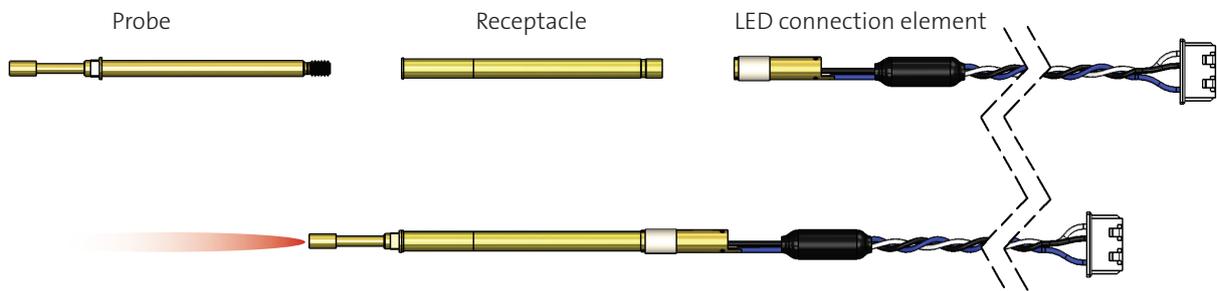
The new LED contact probe system provides a complete solution for guiding the operator during the assembly process of connectors. This includes:

- Guided terminal insertion with indication of the correct cavity by light (LED)
- Electrical test, i.e. continuity check of the terminals to assure the correct position

Existing solutions use either optical fiber indication of the cavity which does not allow electrical contacting, or LED indication next to the cavities which is less effective for guiding the operator and might cause more wrong assemblies.

Both functions (LED-indicator and contact probe) are combined in one device. This ensures correct terminal insertion and at the same time allows electrical tests. This solution is suitable for applications down to centers of 100 mil.

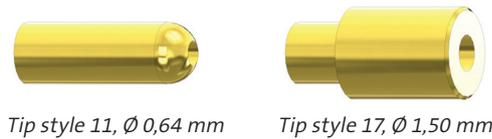
Modular Design



The LED contact probe is a modular system consisting of a spring contact probe with hollow plunger, a holding receptacle and a LED connection element. The electrical connection of this probe is realized by a connector compatible to Molex PicoBlade™ Series. The three wires include one for connection to the probe tip (test point) and two for providing the control voltage to the LED (5V DC).

Available Tip Styles

The new LED probe is currently available with two different tip styles. Especially the very thin tip style 11 allows applications with very small connectors and cavity sizes.



Tip style 11, \varnothing 0,64 mm

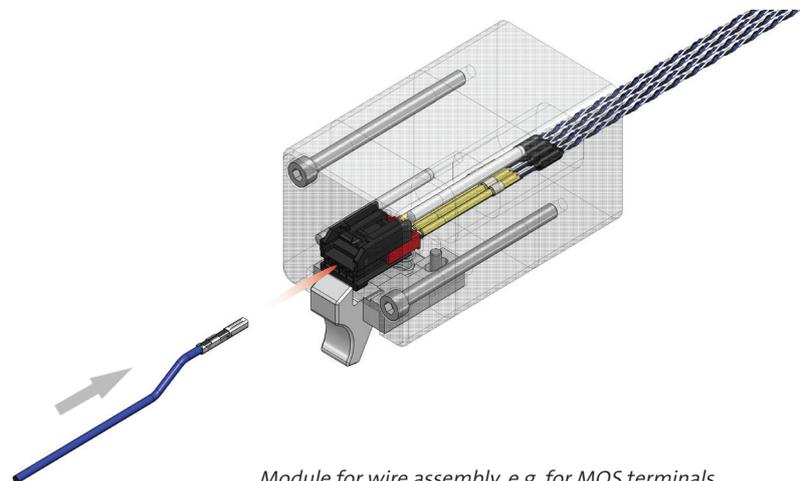
Tip style 17, \varnothing 1,50 mm

Application Example

The application example shows a guided terminal insertion into a connector with 4 cavities (type of terminal: Micro Quad Lock System MQS).

For the guided terminal insertion each wire is inserted into the LED indicated cavity. After the insertion a continuity check can follow in the same setup.

This application shows a connector with a secondary lock (SL) in open position. That requires a sufficient length of the probe tips respectively a sufficient projection height to go through the open SL before touching the terminal.



Module for wire assembly, e.g. for MQS terminals