

The brandnew **WIZON** contact

pat.
wire connection

Direct connection enamelled copper wire to printed circuit board

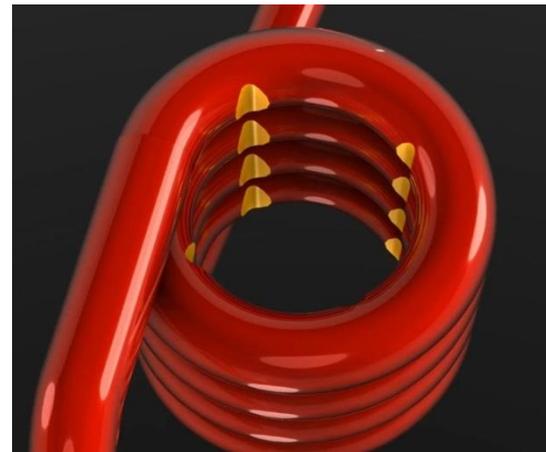
WIZON = Wire + BIZON = directly from wire to PCB

Wire range from 0.04 to 2 mm

With thick wire (2 mm) the winding can also be prefabricated. Then the contact is pressed into this winding.

Sensationally simple, sensationally good.

Demonstrator for a prefabricated wrap with WIZON connections.



Your benefit with WIZON contacts

- **Fully automatic electrical connection on the winding machine without stripping**
- **No additional costs, no plant, maintenance, follow-up costs**
- **Tested up to wire 0.04 mm**
- **Large diameter range per contact size. Standardization**
- **Highest connection reliability and vibration resistance**
- **Can be combined with press-fit technology, connectors, welding and other connections**
- **Purely mechanical, process-safe connection technology**
- **Simplest processing tools**
- **Testable samples can be produced quickly by laser. Just test it yourself.**

The proven technological basis of the WIZON contact.

The WIZON contact principle is based on decades of proven, space-qualified wire-wrap connection technology according to DIN EN IEC 60352-1. This test standard can be applied analogously to the WIZON contact.

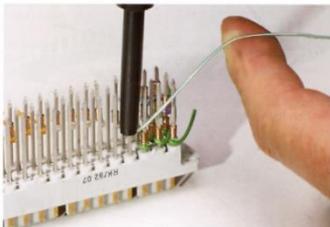
The consistent further development and inversion of the principle made it possible both to contact wires insulated with any type of enamel reliably and to further increase the connection reliability. It even works for **ceramic insulated wires** for high temperature applications (> 300°C).

2. Leiterende in die Leiterrille einführen, in eine Aussparung der Führungshülse hineinbiegen und festhalten.



Beim Modifizierten und beim Standard Wickelersatz
Leiterende einschieben bis die Isolation anstößt.
Beim K.A.A. Wickelersatz Leiterende voll durchschieben.
Bei den vereinfachten Führungshülsen der Hand-Wickel-
werkzeuge entfallen die Aussparungen. Der Leiter wird
nur festgehalten.

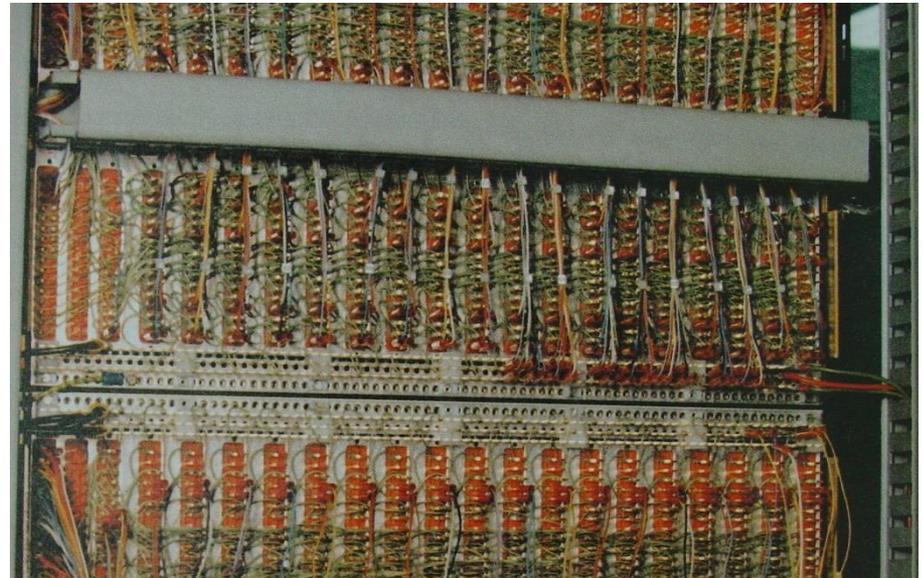
3. Werkzeug mit der Mittelbohrung über den Wickelstift schieben.



4. Wickeln



- Während des Wickelns das Werkzeug leicht andrücken.
- Die Windungen müssen dicht nebeneinander liegen.
- Nicht wegziehen.



The WIZON contact combines the safest known electrical connection techniques.

Press-in technology and wire-wrap technology.

Reference SN 29500

	Section in mm ²	Breakdown rate in fit
Soldering manual	-	0,5
Soldering machine	-	0,03
Soldering SMD machine	-	0,2
Wire-wrap	0,05...0,5	0,002
Crimp manual, machine	0,05...10	0,25
Temi-point	0,1...0,5	0,02
Press-in	0,05...2,2	0,005
IDC	0,05...1	0,05
Quetschen manual, machine	10...300	0,25
Screw	0,5...16	0,5
Clip (spring force)	0,5...16	0,5

Difference to wire-wrap

Section
in mm²

Breakdown rate

WIZON-Kontakt 0,0013...3 <0,002

Also for enamelled wire

Bild 1 fit Raten Elektrischer Verbindungstechniken. 1 fit
= Anzahl der Ausfälle pro 10⁹ Stunden

The brandnew WIZON-contact

The direct connection from the copper wire to the printed circuit board using press-fit technology.

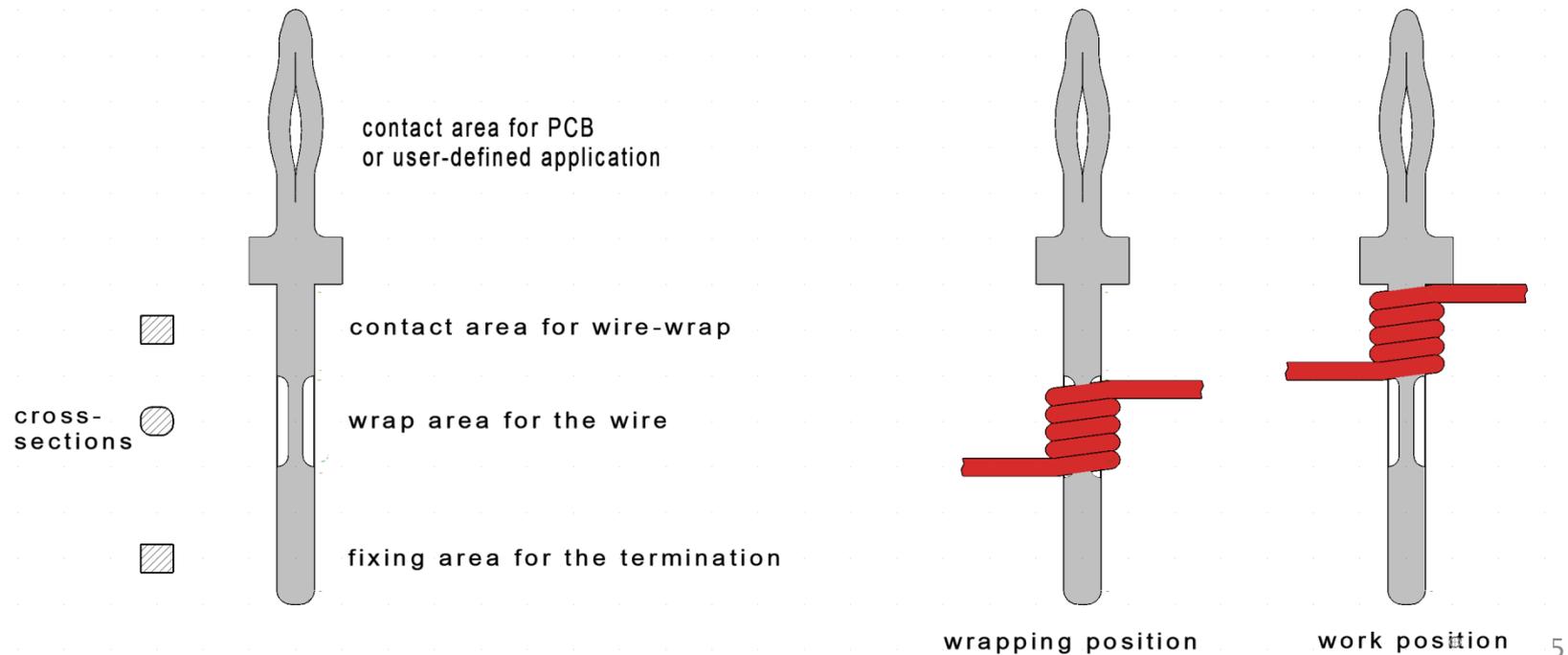
No soldering - no crimping - no stripping - purely mechanical - safe.

Can be **automated** during winding **on the winding machine.**

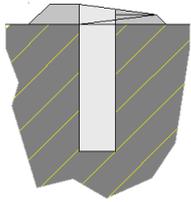
Very simple and safe.

All electromagnetic components such as motors, relays, transformers, etc., can be safely connected to printed circuit boards, flat connectors or busbars in a purely mechanical way with this contact.

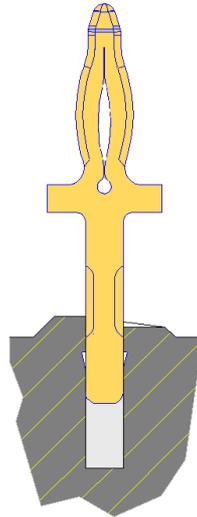
The **core element** is the **displacement of the wire wrap** from the wrap area to the contact area. Technically, it is the pressing of a solid contact into a wound copper sleeve. The sharp edges penetrate the insulating enamel and create 4 gas-tight connections per turn.



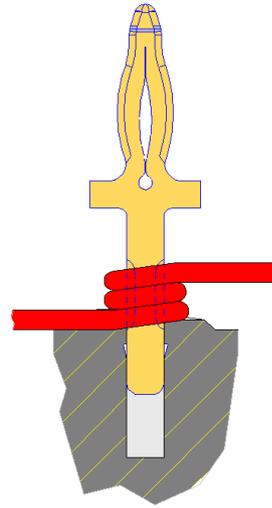
Application of the WIZON contact



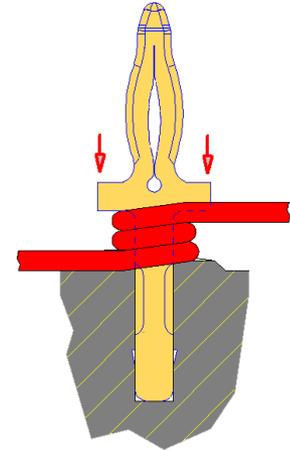
Fixing hole in the bobbin



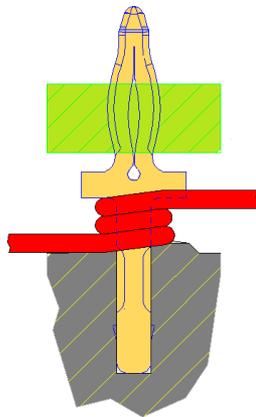
WIZON-contact fixed before wrapping



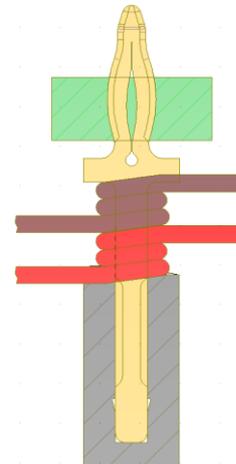
Wire wrapping on the wrap area



Press in to work position
The contact is moved



Pressing in the printed circuit board
-finished-
best direct connection from wire to PCB



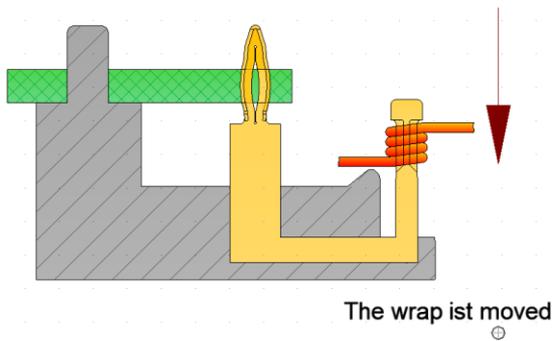
Multiple wrap

WIZON contact injected

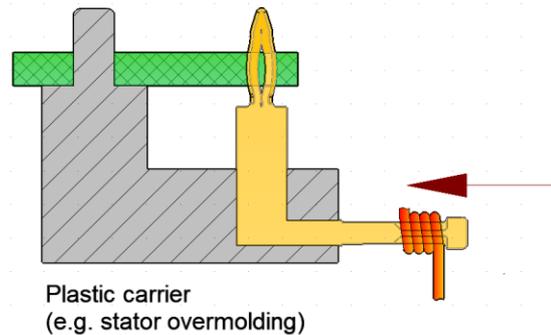
If there is too little space in the depth, the principle can also be reversed.
The contact is fixed in the plastic -injected or pressed in- and the wrap is moved.

I will be happy to show how this can be made easy in terms of manufacturing technology.

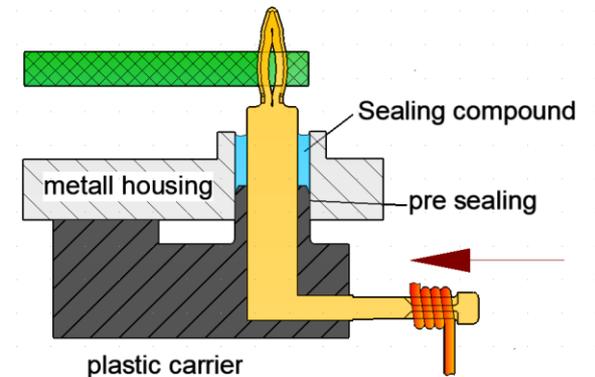
WIZON contact in
plastic carrier injected



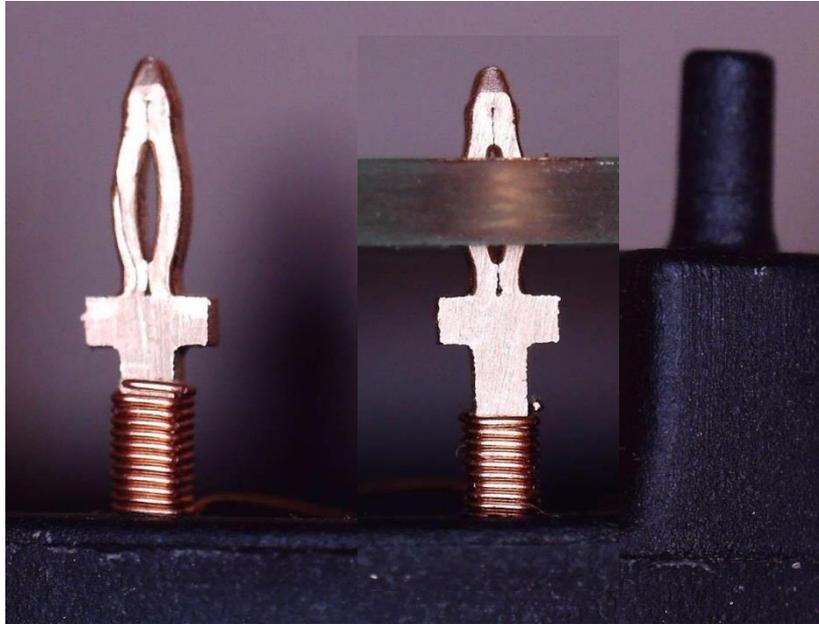
WIZON connection in the
winding level of the stator



sealed implementation



Examples



Motor stator winding, relay coil, transformer:

Direct. solderless connection to printed circuit board



WIZON 0.6

Thickness range for enameled copper wire with one contact