

## Technical data sheet for Z+F wire ferrules

The materials of the wire ferrules manufactured by Zoller & Fröhlich GmbH, can be described as follows:

- **Production:** Made in Germany
- **Hazardous Substances:** The materials used for production are classified as not noxious
- **Used materials:**
  - Insulating Collar: Polypropylen-Homopolymer (UL-File No. E108112)
  - Copper Tube: Copper (Cu-DHP)
  - Tin Plating: Galvanically tin-plated, shiny
- **Additional materials:** compliant with RoHS and WEEE directives 2011/65/EU, 2003/11/EG und 2012/19/EU as well as the REACH regulation (EG) no. 1907/2006
- **Thermostability:** heat resistant from -5° C up to +105° C
- **Standards:**
  - DIN 46228-4: 2020-03
  - UL 486 F certification  
Certificate no. E491449
  - CSA-US certification  
Certificate no. 209623
  - RoHS and WEEE directives  
2011/65/EU, 2003/11/EG and 2012/19/EU
  - REACH regulation (EG) no. 1907/2006
  - Conflict minerals according to Sec. 1502 DFA

Please note that our precursors (raw material) are manufactured industrially and therefore traces of naturally occurring impurities can not be excluded.

According to the specification of the suppliers the absence of these substances is not proved by tests.

Regarding RoHS, REACH and the conflict minerals the company Zoller & Fröhlich GmbH is in a constant dialogue with their suppliers in the supply chain. In addition to that our suppliers are committed by the legislator to inform us immediately if the conformity cannot be guaranteed anymore.

Wangen im Allgäu, October 2022



Dr.-Ing. Christoph Fröhlich  
Managing Director

