

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
- Materials:

Insulating Collar	Polypropylene (UL-File No. E111275)
Copper Tube	Copper (E-Cu 57), tinned
Tin Plating	pure tin-plated without lead
- Materials:

Halogen	without halogen
Chlorinated solvent	no
Non chlorinated solutions	no
Alcohol / Flux	no
Resins	no
Polysiloxane	no
Silicon (Si)	≤10 ppm
Others	see Polypropylene (on request)
- Hazardous Materials:

Mercury	no
Cadmium	no
Chromium VI	no
Beryllium	≤1000ppm
Lead	no
Asbestos	no
Krypton	no
HCFC	no
CHC	no
PCB	no
PCT	no
PCP	no
CP	no
CFC	no
PCN	no
PFOS	no
PAH	no
PVC	no
PBB	no
PBDE	no
OBDE	no
DecaBDE	no

Monomethyl tetrachlorodiphenyl methane	no
Monomethyl dichlorodiphenyl methane	no
Monomethyl dibromodiphenyl methane (DBBT)	no
Ozone depleting substances	no
Azocolourants	no
Tris-(1-aziridinyl) phosphin oxide	no
Tri-(2, 3-dichromo-propyl) phosphate	no
Nickel and nickel alloys	no
Phthalates	≤1000 ppm
Benzene	no
Chlorobenzene	no
Formaldehyde	no

- Temperature rating: heat resistant up to 105° C
- Standards:
 - DIN / VDE 46228 part 4
 - CSA / ANSI-UL, CSA-US certificate no. 1176867
 - Restriction of hazardous materials in electrical and electronical products (VDA-list)
 - ROHS and WEEE directives, 2002/96/EG, 2002/95/EG and 2003/11/EG

Please note, Zoller+Fröhlich GmbH got the information from their suppliers. Despite the fact, that the substances mentioned above were not used in the production process, it is not possible to exclude, that insignificant amounts are contained in the product. According to the specification of the suppliers, the absence of these substances is not proved by tests.

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