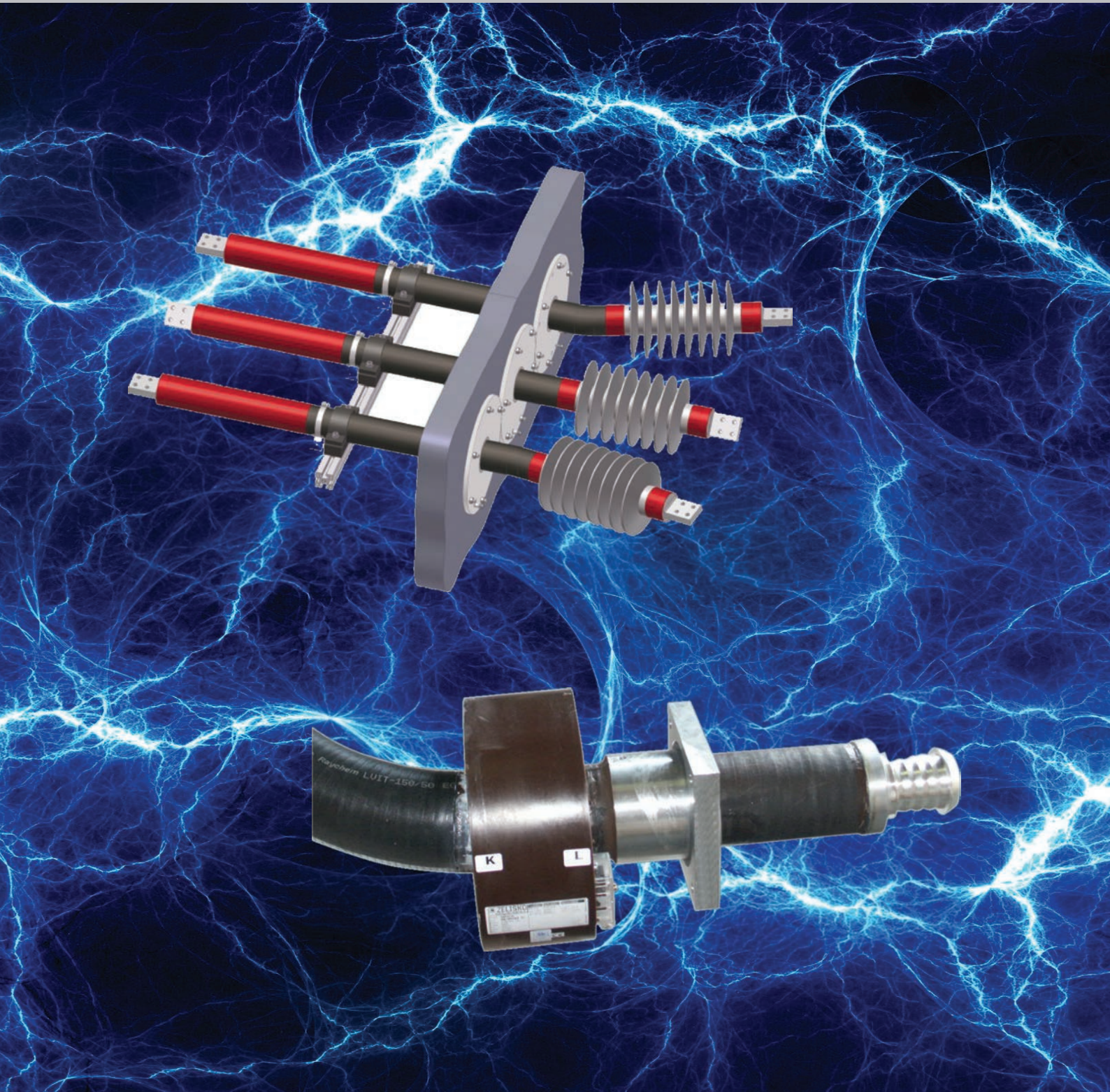


ISOBUS MB & SOLUTIONS

Epoxy Resin Impragneted Paper Insulated Bushing & Solutions



ISOBUS MB

The ISOBUS MB system is designed to provide a value added solution for primary and secondary distribution systems up to 52 kV and 7000 A. It is a single phase insulated system avoiding phase to phase short circuits for indoor and outdoor applications. For outdoor applications shrinking sheds are installed increasing the creepage distance according the applicable standard(s) respectively customer specification.

Design Principal

ISOBUS MB is an Epoxy Resin Impregnated Paper (ERIP) insulated bushing with capacitive grading layers embedded through the insulation and a concentric earth layer. The earth layer is directly connected to the flange (Fig. 1).

ISOBUS MB is designed and manufactured according to the same principles as ISOBUS MR.

ERIP Insulation Properties: Please refer to ISOBUS MR Brochure

Application

ISOBUS MB bushings are designed for:

- Indoor and outdoor applications
- Connections to oil / air equipment
- Connections between SF6 and non SF6 equipment
- Connections to cables

Safety and Reliability

- Partial discharge free according to IEC 60 137 due to void-free manufacture and high voltage routine testing of each bushing prior to delivery. Guaranteed for a long lifespan.
- Touch safe during operational conditions due to embedded concentric earth layer being connected to ground.
- Withstands ambient temperatures from -50°C to above + 55°C.
- Withstands very high peak current.
- Integrated current transformer on the bushing is possible.
- Degree of protection is IP 40 -IP 68
- Natural cooling.
- No halogens. If a fire occurs, no toxic gases occur and the insulation is self-extinguishing.

Space and Time Saving Installation

- Value added solution supplied.
- Mounting flange and current transformer can be integrated in the design of the bushing.
- Any three dimensional shape is possible.
- One bushing per phase up to 7000 A.
- No special tools required.

ERIP Insulated Bushing with Capacitive Grading Layers

TYP/TYPER:	ISOBUS MB
Application:	> 3,6 kV- 52 kV & up to 7000 A
Insulation:	ERIP - Epoxy Resin Impregnated Paper
Degree of protection:	IP40-IP54 Indoor IP54-IP68 Outdoor
Remark:	Single phase insulated

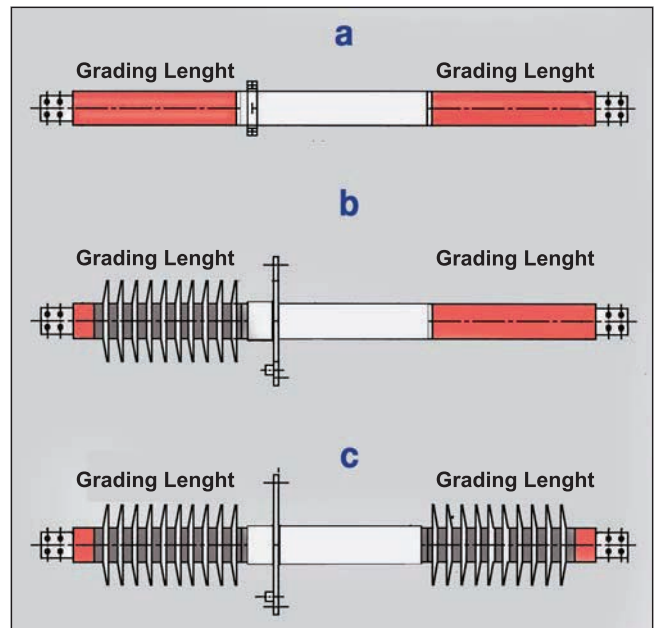
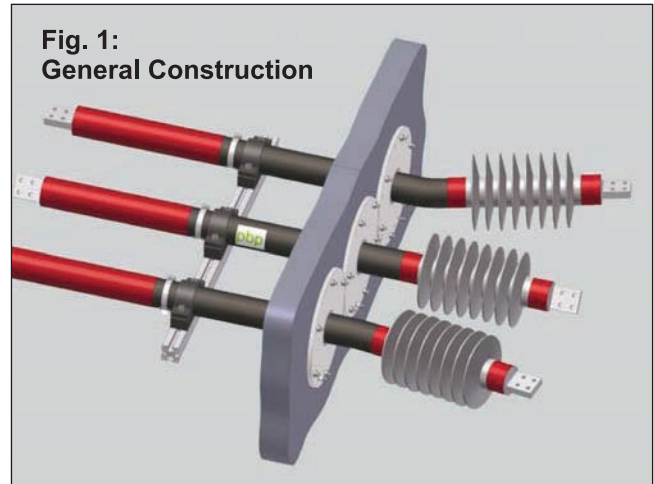
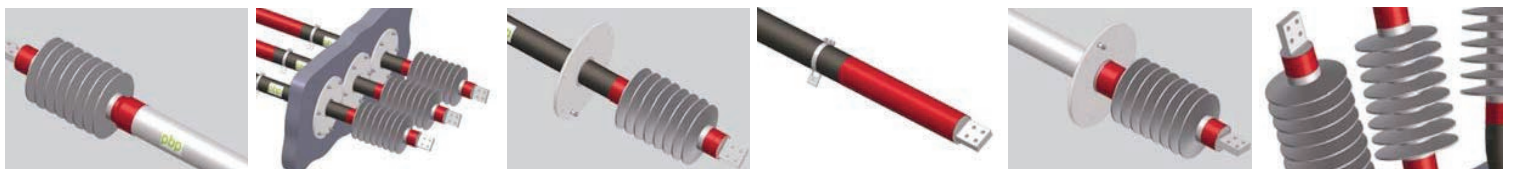


Fig 2: Applications

- a: Indoor/Indoor
- b: Outdoor/Indoor
- c: Outdoor/Outdoor



SOLUTIONS

Special Busbar Solutions E.G.: Marine Technique Instrument Transformer Integrated Plug & Cable Connections

Our core business is providing safe, reliable, value engineered solutions for medium and low voltage distribution applications. These solutions are designed for a long life span without or very limited maintenance.

Innovation is one of the main driving forces within our company performed in close cooperation with our clients and suppliers. We have developed, manufactured and installed a wide range of interesting solutions which might be of interested for your current or future application(s). Listed below, we show a short overview of product solutions we can offer.

Sample References Busbar Innovations

- Current transformer integrated on busbar element (Fig. 1) and bushing.
- Capacitive tap off from busbar.
- T-Off connection tube ISOBUS MR (Fig. 2).
- Right angled switchgear cable plug-in solutions to eliminate the need of a separate cable incomer switchgear section or significantly reducing the cable room underneath the switchgear (Fig. 3).
- Adaptors which can interface between various insulation types e. g. SF6, air and oil.

This is only a small selection of various special solutions. If you have any kind of special request please contact us!

We will be glad working together with you developing solutions according your needs and requirements.

Fig. 1: Instrument Transformer Integrated



Fig. 2: T-OFF Connection Tube

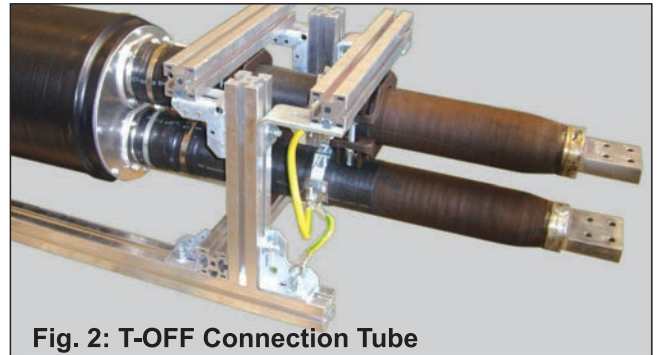
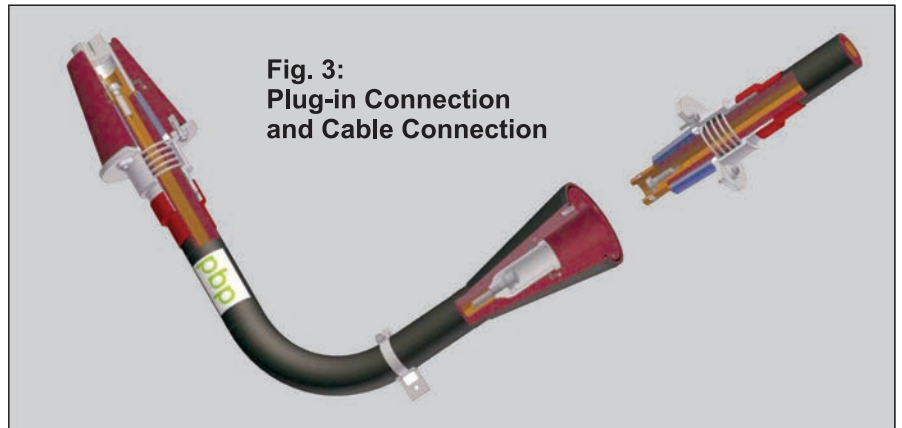


Fig. 3:
Plug-in Connection
and Cable Connection



MORE PRODUCTS

ISOBUS MR



ISOBUS MG



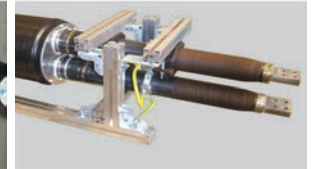
ISOBUS MB



ISOBUS LR



SPECIAL APPLICATIONS



Tefelen Preissinger GmbH

We are a German company, located at Industriestrasse 12, 96120 Bischberg, with a very long product history and a deep experience regarding low and medium voltage cast resin insulated busbar systems.

History

The product history started at Messwandler-Bau (MWB) in Bamberg in the late 1960s and early 1970s, where Mr. Norbert Preißinger († 2015) headed the engineering and construction department for busbar systems during the 1980s until he left the company in 1988.

In that year Mr. Preißinger founded his own engineering office for cast resin insulated busbar systems, which were produced by his former employer Messwandler-Bau (MWB).

After successfully running his engineering office for 11 years, Mr. Preissinger started his own production site under the company name pbp Preissinger GmbH & Co. KG in Bischberg in 1999. In 2009 the head office moved to a new office building in Breitenguessbach. In the years until 2012 the company grew to the size of 45 employees. In 2014 Preissinger doubled its production capacity by implementing a second production kiln for the cast resin impregnation process of the busbar elements and the connection tubes. Since its establishment in 1989 Preissinger has sold more than 2.000 busbar systems across the world.

On 16th August, 2016 pbp Preissinger GmbH & Co. KG was taken over by Tefelen Preissinger GmbH.

Technology for Power Distribution, Power Generation and Electrical Energy

Tefelen Preissinger GmbH provides busbar solutions meeting the highest requirements of the global markets and in accordance with the customers' requirements.

Tefelen Preissinger GmbH keeps its reputation by high-quality products and its market position as a global leader by providing a complete range of cutting-edge products:

- > Medium Voltage Epoxy Cast Resin Insulated Busbar Systems ISOBUS MR up to 40,5 kV & 7.000 A
- > Medium Voltage Gas Insulated Busbar Systems ISOBUS MG up to 40,5 kV & 3.150 A
- > Wall Bushing Solutions ISOBUS MB up to 52 kV & 7.000 A

Compared to cable solutions and air insulated bus duct solutions the cast resin insulated busbar systems providing space saving solutions by the capability to carry higher currents and achieving smaller bending radii and the lost factor is much low. So the total cost of operation is significantly lower than for air insulated bus duct systems and cable solutions especially taking into account that the cast resin insulated busbar systems are maintenance free.

Our aim is providing efficient and perfect solutions for every customer application and any kind of specification. Based on our outstanding service and competence, we wish to establish a long-term business relationship with our business partners and clients.

The Tefelen Preissinger GmbH became a leading manufacturer of Medium Voltage Busbar System Solutions merging more than 30 years of experience. Numerous companies in more than 100 countries across Asia, North/South America, Europe, Africa and the Middle East put their trust in the innovative technology, provided by Tefelen Preissinger GmbH.

Tefelen Preissinger GmbH is committed to assisting customers with their unique needs by providing them with comprehensive, value-added solutions and professional service.

Please do not hesitate to contact us.

For more information, visit www.tefelen-preissinger.de

Or contact us at: info@tefelen-preissinger.de