

HVI-TEC BBU 10 - 10kV Isolation Transformer

High Voltage Interface (HVI) - Designed for Voice and Data Transmission

Standard range

The range of our standard transformers practically corresponds to the entire spectrum of requirements that must be met by wired communication systems in which sub-elements of a complex system are to be coupled with zero reflection. They are available as serial products and can be used as either mating or isolating transformers. Depending on the model, phantom circuits can be created.

Custom specifications

If our range of standard transformers does not cover any special technical requirements, we are happy to develop transformers according to customer requirements.

Applications

- Applications from 2-wire analog telephones to high-speed digital switching
- Any place where critical communication (must not fail) has priority
- Locations served by Copper Telco facilities that have a GPR of 1000 volts or greater
- Wireless facilities on or near high voltage transmission towers
- All telecommunication systems in high voltage environments
- Wireless measurement services with input of data lines
- Solar systems with input of data / voice lines
- Point-to-point communication (building to building) for wired communication



Galvanic Isolating Transformer BBÜ 10
Prod.ID - 306 363

Specifications:

Transformation ratio:	1 : 1
Matching:	150 : 150Ohm / 6 - 252kHz
Effective Attenuation:	< 0.3dB / 6 - 252kHz
Matching:	600 : 600 Ohm / 0.3 - 6kHz
Effective Attenuation:	< 1.0dB / 0.3 - 6kHz
Reflection Attenuation:	> 26dB
Operating loss:	≤ 0.4dB
Common mode symmetry loss:	> 65dB at 100kHz
Common mode symmetry loss:	> 52dB at 552kHz
DC winding resistance:	< 0.5Ohm
Insulation Test Voltage:	10kV / 50Hz / 10sec
Construction Form:	15

Custom specifications:

If our selection of standard transformers does not cover any of your special technical requirements, we would be happy to develop transformers according to customer requirements.

Approvals:

Deutsche Telekom AG
Deutsche Bahn AG
German Federal Armed Forces
Belgian railways

System solutions

For fast and reliable assembly, we can deliver system solutions that consist of the following components, for example:

- Cable termination cabinets and racks
- Pre-assembled, pre-wired and tested transformer busbars
- Transformers pre-assembled on special flush-mounted subracks

If you are planning a project, please do not hesitate to ask us for advice.

General remark:

The data given above provides information about the performance of the product under certain conditions and does not imply a guarantee of performance. These specifications are subject to change without notice.