

APPLICATION NOTE

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CGL Power Input Connectors

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The Challenge

Many customers do not realize that connectors according to MIL-C-5015, VG95234 and the commercial variants are only approved for operating voltages of max. 50 V AC. if accessible during operation. In commercial applications they are often used as power supply connectors. Thus higher voltages than approved per VG and European standards are applied.

According to DIN EN 61984 the grounding conductor has to be terminated to all metal parts, which can get under load in case of electrical defects. The grounding conductor in the connector has to be terminated to a "first to mate last to break" contact which is conductively linked with the shell. This is performed by our CGL Power input connector line.



The ITT Solution ...

The ITT Solution offers a range of Power input connectors good for mains power of various voltage levels. These Connectors are in line with the so-called European low voltage and EMC guideline. The first one is referring to the design features to apply mains power while the latter one specifies the max. level of electrical pollution the product may generating.

These two regulations have a statutory character in Europe in order to save people from physical injury.

Product Features

- Operating voltages of 230 to 630Veff
- Fully shielded
- IP67
- Pollution degree 3
- Contact count from 3 to 24, 16 contact arrangements
- Contact termination ranging from 1,5 to 50mm²
- PG and metric gland options
- Universal backshell options

Benefits to Customer

- Safe connection of main power
- Fully intermateable with competitors product base on relevant standard (5015, CA-B, and VG)
- Water immersion sealed
- Robust design



For application assistance, please contact:

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