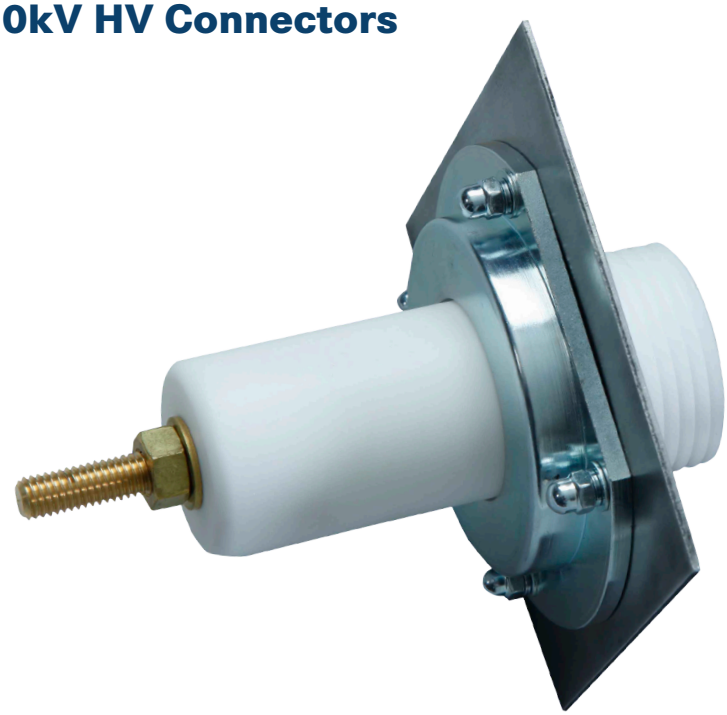
Genvolt
high voltage power supplies

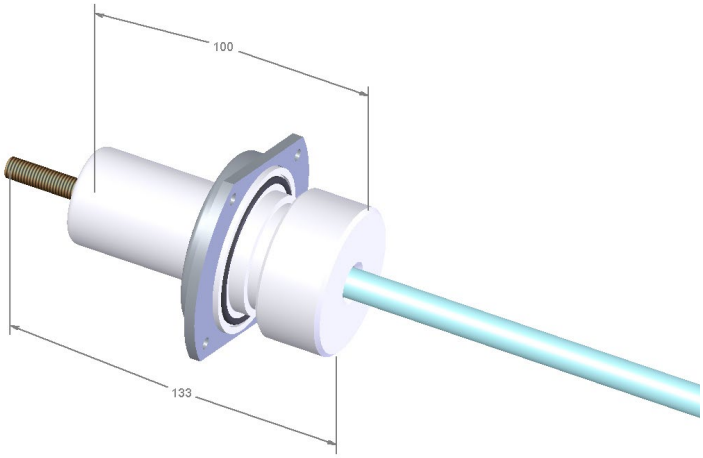
Genvolt design, develop and manufacture
a wide range of high voltage power supply systems

60kV HV Connectors

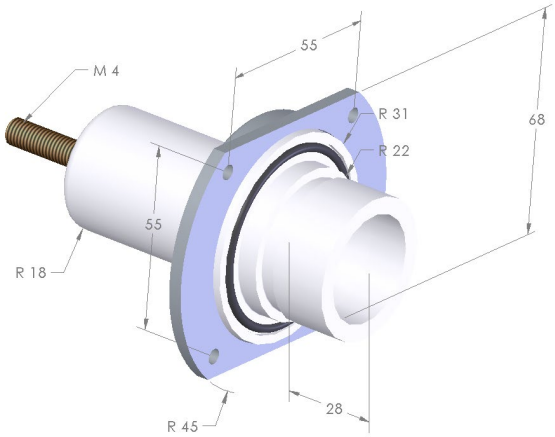


Specification Summary

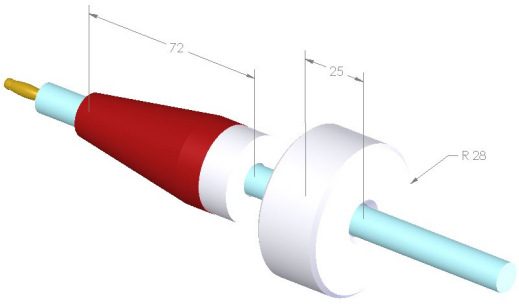
Housing Material	PTFE
Contact Terminal	4mm diameter gold plated spring contact
High Voltage Wire	Silicone rubber 2.5mm² 60kV HV cable



60kV High Voltage Receptacle



60kV High Voltage Plug



Genvolt Ltd, New Road, Highley, Bridgnorth, Shropshire, WV16 6NN, UK. T: **+44 (0)1746 862555** F: **+44 (0)1746 862666** E: **info@genvolt.co.uk** W: **www.genvolt.co.uk**
Registered in England and Wales Nº 8087238

Genvolt
high voltage power supplies

Important User Information

The Genvolt Type 60kV HV connector is designed for convenient connection and disconnection of non-live circuits. It should not be possible, in operation, for a user to pull on the wire or unscrew the cap.

It is designed typically for use with unscreened silicone-covered HV wire which Genvolt can also supply.

The connector has a plastic shell and uses compression to enhance the tracking performance of the length of the cable inside the housing. Some caution needs to be taken into account before incorporating the Genvolt 60kV HV connector into equipment intended for operation at high voltages.

1. The connector is intended only for use with DC circuits.

2. The outside of the connector may have a static charge induced by leakage currents or capacitive coupling from the interior conductors.

3. There is no 'positive' anchorage of the wire. It is held by compression alone and may be pulled out of the connector if sufficient force is used.

4. The shell of the connector is not earthed. It should not be possible for a user to gain access to any part of the connector or the wire leading to it when the circuits are energised.

5. The connector is designed to be used on the shell of an oil-filled tank where the connector rear projects into the oil to a depth of typically 2" (50mm). If oil or other suitable insulating medium is not employed, then the voltage rating needs to be derated as appropriate to the intended environment.

6. It is intended that the user cleans the HV wire, the conical rubber compression part and the bore of the connector with a mild solvent such as IPA before assembly. A thin smear of silicone grease such as Dow Corning DS4 should then be applied to all mating surfaces.

JULY 2015

Genvolt Ltd, New Road, Highley, Bridgnorth, Shropshire, WV16 6NN, UK. T: +44 (0)1746 862555 F: +44 (0)1746 862666 E: info@genvolt.co.uk W: www.genvolt.co.uk