

## SILICON FIBERGLASS INSULATING SLEEVINGS

**UL**® on request UL approved material UZI02 File E311983

### Breakdown Voltage

GVES1500: min. 1500 Volt  
 GVES2500: min. 2500 Volt  
 GVES4000: min. 4000 Volt  
 GVES7000: min. 7000 Volt  
 According to UL 1441

### Thermal class: C

Operating temp. -60°C +250°C  
 Short time peaks +290°C

### Packing

0.5-4.0 200 meters  
 5.0 – 22.0 100 meters  
 24 – 30 50 meters  
 Diameters range 0.5 – 50

### Colors

Brick red is standard color.  
 Other colors on request  
(Colour tone may vary. This does not affect technical properties of sleeve)

### Certifications



On request UL approved material UZI02-E311983  
 Flame Retardant WV-1

GVES is conform to Rohs, Reach and Conflict Minerals standards

### Notes:

The values given above are believed to be accurate and given as a matter of information only. As usage conditions are beyond our control we suggest the customer to confirm values and product compatibility prior to its use. We don't guarantee nor accept any responsibility for any particular usage.



**GVES** is an insulating sleeving made of braided fiberglass yarn coated with silicon resin. According to the quantity of silicon resin on the surface it is possible to increase the breakdown voltage. Standard insulations are 1500 Volt (GVES1500) – 2500 Volt (GVES2500) – 4000 Volt (GVES4000) – 7000 Volt (GVES7000) volts.



### DIMENSIONS:

Diameter	Tolerance	Wall thick. GVES1500	Wall thick. GVES2500	Wall thick. GVES4000	Wall thick. GVES7000
0.5	+0.3 - 0	0.40±0.12	0.41±0.12	0.50±0.15	0.53±0.15
0.8	+0.3 - 0	0.40±0.12	0.41±0.12	0.50±0.15	0.53±0.15
1.0	+0.3 - 0	0.40±0.12	0.41±0.12	0.50±0.15	0.53±0.15
1.5	+0.3 - 0	0.40±0.12	0.41±0.12	0.50±0.15	0.53±0.15
2.0	+0.3 - 0	0.40±0.12	0.41±0.12	0.50±0.15	0.53±0.15
2.5	+0.3 - 0	0.40±0.12	0.41±0.12	0.50±0.15	0.53±0.15
3.0	+0.3 - 0	0.50±0.12	0.52±0.12	0.52±0.15	0.55±0.15
3.5	+0.3 - 0	0.50±0.12	0.52±0.12	0.52±0.15	0.55±0.15
4.0	+0.3 - 0	0.50±0.12	0.52±0.12	0.52±0.15	0.55±0.15
4.5	+0.3 - 0	0.50±0.12	0.52±0.12	0.55±0.15	0.55±0.15
5.0	+0.3 - 0	0.50±0.12	0.52±0.12	0.55±0.15	0.62±0.15
5.5	+0.3 - 0	0.50±0.12	0.52±0.12	0.55±0.15	0.62±0.15
6.0	+0.3 - 0	0.50±0.12	0.52±0.12	0.55±0.15	0.62±0.15
7.0	+0.3 - 0	0.50±0.12	0.52±0.12	0.55±0.15	0.62±0.15
8.0	+0.3 - 0	0.50±0.12	0.52±0.12	0.55±0.15	0.62±0.15
9.0	+0.3 - 0	0.50±0.12	0.62±0.12	0.65±0.15	0.80±0.15
10.0	+0.3 - 0	0.60±0.12	0.62±0.12	0.65±0.15	0.80±0.15
12.0	+0.5 - 0	0.60±0.12	0.62±0.12	0.65±0.15	0.80±0.15
14.0	+0.5 - 0	0.60±0.12	0.62±0.12	1.12±0.15	1.15±0.15
16.0	+0.5 - 0	0.60±0.12	0.62±0.12	1.12±0.15	1.15±0.15
18.0	+0.5 - 0	0.60±0.12	0.72±0.12	1.15±0.15	1.25±0.15
20.0	+0.5 - 0	0.60±0.12	0.72±0.12	1.15±0.15	1.25±0.15

### Main Properties:

Properties	Result
Heating test Resistance	After 48 hours at 260°C there is no cracking or detachment of the coating silicon. The original color should be clearly recognizable.
Flame resistance	Accordin to UL 1441 the sleeving in vertical position is self extinguishing
Humidity resistance	There is no softening of the sleeve
Low temp. resistance	After 60 minutes at -70°C no cracking or detachment must be visible
Chemical resistance	Can resist to impregnation varnishes and resins normally used in motors and transformers manufacturing.

ISOLCAVI GVES