

Product Highlights

- Working temperature
-60°C to +220°C (class H)
- Very flexible
- Diametrical expansion ≈ 1.3



GES™

GES is a braided fiberglass sleeve with a silicone rubber coating designed to provide electrical insulation.

The thickness of the silicone coating determines the dielectric strength, which ranges from 4 to 10 kV.

The high flexibility of GES allows relative diametrical expansion (approximately 1.3).

This product provides electrical insulation for a wide range of industries and applications, including winding, engines, and transformer outlets.

BentleyHarris®
Protection Products

Performance Data

Property	Test	Result
Dielectric measurements	NF standard C93.641	See table below
Working temperature	MIL standard 1003190C (class +220°C), type D, category C	-60°C to +220°C (continuous) Meets requirement
Volume resistivity		10 ¹² ohms/cm
Ageing	7 days at +265°C and 60 days at +235°C	Retains electrical properties
Flame resistance	UL 1441 (VW1) NFC 16.101 - 16.102	Pass I2-F0
Resistance to transformer fluids	NF standard C.93641	Pass
Hydrolysis stability	14 days at +70° in a moisture saturated atmosphere	No change

Electrical performances

GES is available in 2 versions with the following dielectric strength:

Description	Dielectric strength (mean value)	Minimum dielectric strength
GES 40	4.0 kV	2.5 kV
GES 100	10.0 kV	7.0 kV

Availability

Bentley-Harris® GES is available in sizes 0.5 mm to 25 mm. Standard colour is red-brown.

Please consult the factory with needs for special colours, which are available on a minimum order basis.

All numeric data show average or typical values.

Product Specifications

Internal diameter (mm)	Diameter tolerance (mm)	Standard Packaging (m)	Internal diameter (mm)	Diameter tolerance (mm)	Standard Packaging (m)
0.5	± 0.2	200	8	± 0.3	100
1	± 0.2	200	9	± 0.5	50
1.5	± 0.2	200	10	± 0.5	50
2	± 0.2	200	12	± 0.5	50
2.5	± 0.2	200	14	± 0.5	25
3	± 0.2	100	16	± 0.7	25
4	± 0.2	100	18	± 1.0	25
5	± 0.3	100	20	± 1.5	25
6	± 0.3	100	22	± 1.5	25
7	± 0.3	100	25	± 2.0	25

Part Numbering System

Example:	Desc	Size	Colour	Quantity
	GES 40	10	12(red-brown)	1000 m

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