

## PROTECTIVE SLEEVING

### REVITEX VSR-HA

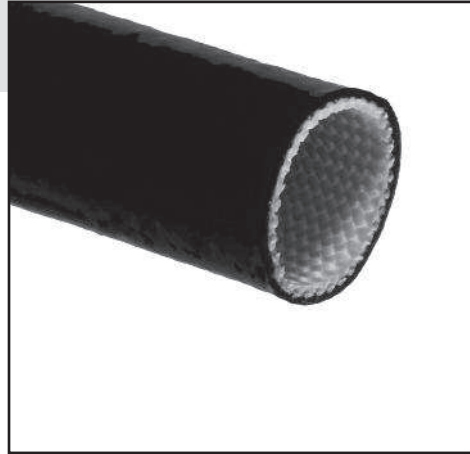
Sleeving for thermal, electrical, mechanical & EMI applications

#### Applications

Ideal thermal and electrical insulating material, in places and devices with high operating temperatures, thermal overcharges and mechanical stress. By means of its special composition the sleeving keeps its round shape. This makes it easy to pass cables through the interior of the sleeving.

#### Description

Round shape fiberglass braid impregnated with silicone varnish and coated with a special silicone rubber. Its main characteristic is the thin silicone rubber coating, which allows to have a higher dielectric strength with a thinner wall and high abrasion resistance.



#### 4 Features & Benefits

- Halogen free
- Self-extinguishing VW 1
- Good abrasion resistance
- Toxic odorless
- High dielectric strength with thin wall
- Easy to install, highly flexible, very round shape
- Excellent chemical resistance to oils, fluids and aggressive chemical agents

#### Operating Temperature

- -40°C to +235°C, peaks at +300°C (6 hours)

#### Specifications

- IEC 60684 sheets 400-402
- UL 224
- Ford SJM-99D9720-A  
(heat resistant insulating sleeving)
- BOSCH Standard 56731  
(fiberglass insulating sleeving,  
silicone rubber coated, very flexible)
- BOSCH PVA 7539  
(test specifications for insulating sleeving)

#### Put up

On spools of variable length, depending on the diameter of the sleeving. On request in cut lengths or spools.

#### Handling

No special handling requirements. For product safety data and product disposal advice, see separate Safety Data Sheet.

#### Notes

This information and data is believed to be accurate and reliable. We place at your disposal the technical information necessary for the correct use of our products and offer the possibility of simulating in our laboratory the conditions of many applications, in order to advise on the suitability of our products. As conditions and methods of use are beyond our control, the user must confirm suitability before adopting our products for commercial use. We reserve the right to modify characteristics with the aim of improving the product and adapting it to the requirements of the market.

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#### Dielectric Strength

Test	Method	VSR-HA
		Minimum
IEC 60684	250 mm. Inst. B / D Central Value (kV)	3.0
IEC 60684	250 mm. Inst. B / D Lowest Value (kV)	2.5
UL 1441	25 mm. Inst. B / D (kV)	4.0

#### Technical Characteristics

Property	Test	Result																											
Thermal Overcharge and Ageing Resistance	Simulation of real operating conditions	After the following processes of accelerated thermal ageing: - 7 days at 265°C - 6 hours at 300°C There are neither cracks nor deformations to be observed on the surface of the silicone rubber coating and the values obtained for dielectric strength meet the values required in UL 1441																											
Flammability	UL 1441	Passes the flame tests: Test HS: sleeving in horizontal position Test VW 1: sleeving in vertical position																											
Humidity Resistance	UL 1441	After submitting the sleeving to humid test conditions it does not become flabby, nor does its surface become tacky.																											
Chemical Resistance to Hydrocarbons	UL 1441	Passes the values required for dielectric strength, after the immersion tests with ASTM oil n° 2 under the following test conditions: 96 hours at 100°C 60 days at 80°C																											
Chemical Resistance	Simulation of real operating conditions	In general good resistance to aggressive chemical agents.																											
		<table border="1"> <thead> <tr> <th>Fluid</th> <th>1 hr at 23°C</th> <th>5 min at 90°C</th> </tr> </thead> <tbody> <tr> <td>Unleaded 98 octane petrol</td> <td>Pass</td> <td>----</td> </tr> <tr> <td>Diesel fuel</td> <td>Pass</td> <td>----</td> </tr> <tr> <td>Antifreeze – Renault Glaceol RX Type D</td> <td>Pass</td> <td>Pass</td> </tr> <tr> <td>Windscreen washer fluid – ad. Pro</td> <td>Pass</td> <td>----</td> </tr> <tr> <td>White spirit</td> <td>Pass</td> <td>----</td> </tr> <tr> <td>Brake fluid – DOTS</td> <td>----</td> <td>Pass</td> </tr> <tr> <td>Motor oil – Elf Competition 15W50ST</td> <td>----</td> <td>Pass</td> </tr> <tr> <td>Cold degreaser – Renault 20</td> <td>----</td> <td>Pass</td> </tr> </tbody> </table>	Fluid	1 hr at 23°C	5 min at 90°C	Unleaded 98 octane petrol	Pass	----	Diesel fuel	Pass	----	Antifreeze – Renault Glaceol RX Type D	Pass	Pass	Windscreen washer fluid – ad. Pro	Pass	----	White spirit	Pass	----	Brake fluid – DOTS	----	Pass	Motor oil – Elf Competition 15W50ST	----	Pass	Cold degreaser – Renault 20	----	Pass
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Abrasion Resistance	ARP 1536A	Minimum 5,000 cycles (Ø 10 mm)																											

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#### Dimensions

Reference	Nominal Bore (mm)	Bore Tolerance (mm)	Wall Thickness (mm)	Standard Packaging (m)
VSRHA __ 030	3.0	+ 0.5	0.6 -0.1/+0.2	200
VSRHA __ 040	4.0	+ 0.5	0.7 -0.1/+0.2	200
VSRHA __ 050	5	+ 0.5	0.7 -0.1/+0.2	200
VSRHA __ 060	6.0	+ 0.5	0.7 -0.1/+0.2	200
VSRHA __ 070	7.0	+ 0.5	0.7 -0.1/+0.2	200
VSRHA __ 080	8.0	+ 0.5	0.7 -0.1/+0.2	100
VSRHA __ 090	9.0	+ 0.5	0.8 -0.1/+0.2	100
VSRHA __ 100	10.0	+ 0.5	0.8 -0.1/+0.2	100
VSRHA __ 110	11.0	+ 0.6	0.9 -0.1/+0.2	50
VSRHA __ 120	12.0	+ 0.6	0.9 -0.1/+0.2	50
VSRHA __ 130	13.0	+ 0.8	0.9 -0.1/+0.2	50
VSRHA __ 140	14.0	+ 0.8	0.9 -0.1/+0.2	50
VSRHA __ 160	16.0	+ 0.8	1.0 -0.1/+0.2	50
VSRHA __ 180	18.0	+ 0.8	1.0 -0.1/+0.2	50
VSRHA __ 200	20.0	+ 0.8	1.0 -0.1/+0.2	50
VSRHA __ 220	22.0	+ 0.9	1.1 -0.1/+0.4	25
VSRHA __ 240	24.0	+ 1.2	1.1 -0.1/+0.4	25
VSRHA __ 250	25.0	+ 1.2	1.1 -0.1/+0.4	25
VSRHA __ 280	28.0	+ 1.2	1.1 -0.1/+0.4	50
VSRHA __ 300	30.0	+ 1.2	1.1 -0.1/+0.4	25

**Note:** Standard Color: Aluminium, Red-brown and Black  
Other diameters supplied upon request.