

HSV-SiF Cable (UL3640) 1.1kV

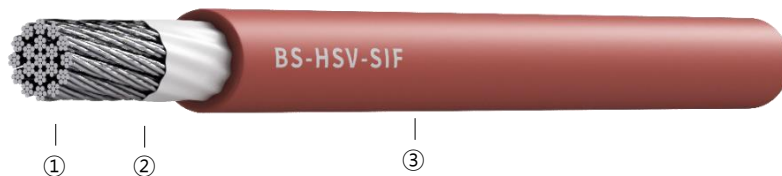
Silicone rubber High strength-voltage Cable

-60°C~180°C

Product Description



- HSV-SiF 1.1kV is a high strength silicone insulated cable with tinned copper strand conductor, separator and silicone rubber. Optionally, it can be braided with synthetic yarn over silicone rubber.
- This cables has excellent properties such as higher mechanical and cut through strength than general silicone cables. In the case of braided structure, it has good abrasion resistance against transformer oil and fuel oil and excellent chemical resistance.
- The major use of this cable requires high flexibility and is used under high and low temperature conditions. It is suitable for connection cable for high voltage machines, transformers, motors and generators.
- This is a low-smoke and halogen-free eco-friendly cable that does not emit corrosive and toxic gases in the event of a fire. It is suitable for construction inside electric vehicles and in ships that generate high heat.



- ① Tinned copper Conductor
- ② Separator
- ③ Silicone rubber
- *Optional: Synthetic yarn braided

UL & C-UL Certification

- File no.: E131290
- Reference: UL 758, 1581

Construction	Technical data
Conductor : Tinned copper strands	Working voltage : 1.1 kV (Test voltage: 4.0 kV)
Strands to IEC 60228 Class 5 and / or AWG	Temperature range: -60° C to +180° C
Separator : Semi-conducting Tape	Bending radius : 5 x Ø
Insulation : High strength Silicone rubber	Insulation resistance: 200 MΩ km
Color (Insulation) : Red-Brown / Black / Red / Green	Flame retardant : IEC 60332-3
Braid (optional) : Synthetic yarn with Vanished	Crush Resistance Test : UL2556

Cross Sectional AWG (mm ²)	Number of Strand.	Conductor Diameter (mm)	Nominal Outer Diameter (mm)	Electrical Resistance Ω/km (20 °C)	Weight of cable (kg/km)
16 (~1.5)	30	1.06	3.9	13.7	28.4
14 (~2.5)	47	2.06	4.3	8.21	38.9
10 (~6.0)	119	3.71	6.0	3.39	82.0
8 (~10.0)	63	4.67	7.6	1.95	134.9
6 (~16.0)	105	6.03	8.9	1.24	203.4
5 (~20)	126	6.61	9.6	0.925	240.4
4 (~25)	161	7.47	10.4	0.795	299.9
2 (~35)	217	8.67	11.8	0.565	396.9
1 (~50)	304	10.39	13.9	0.393	556.4
2/0 (~70)	456	12.72	17.2	0.277	905.0
3/0 (~95)	608	14.69	19.7	0.210	1174.9
4/0 (~120)	760	16.42	21.5	0.164	1481.2



BO SUNG SILITECH

Shipboard • SiHF Cable

Silicone rubber High strength-voltage Cable (HSV-SiF)

1.1kV • 3.3kV • 6.9kV • 13.8kV
180°C-200°C

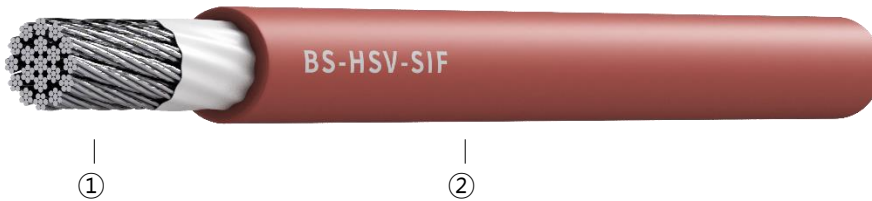
- Used for high voltage machines, transformers, EV motors and generators in high temperature.
- Excellent mechanical strength with superior cut through and abrasion resistance belong with outstanding flexibility.
- Also it is a halogen-free cable, Eco-friendly; and if the option adds braided, it makes a good antifriction, excellent chemical resistance.

Ratings / Approvals

- **UL 3640 Style : -50 °C ~ 200°C / 1100 Voltage**
- **UL 3641 Style : -50 °C ~ 200°C / 3300 Voltage**
- **UL 3642 Style : -50 °C ~ 200°C / 6900 Voltage**
- **UL 3643 Style : -50 °C ~ 200°C / 13800 Voltage**

C-UL Certification

- File no.: E131290
- Reference: UL 758, 1581



- ① Conductor
- ② Silicone rubber
- *Optional: Fiber Braided



• Specification

Cross Sectional Area	Number of Strands	Conductor		Nominal Finished Diam.	Conductor Resis. (@20°C)
		Stranding No./mm	Out-Diam. mm		
SQ(mm ²)					Max. Ω/km Class5
2.5 SQ	47	0.26	2.06	4.36	8.21
6 SQ	119	0.26	3.71	6.01	3.39
10 SQ	63	0.45	4.67	7.61	1.95
16 SQ	105	0.45	6.03	8.97	1.24
20 SQ	126	0.45	6.61	9.61	0.925
25 SQ	161	0.45	7.47	10.47	0.795
35 SQ	217	0.45	8.67	11.81	0.554
50 SQ	304	0.45	10.39	13.99	0.393
70 SQ	456	0.45	12.72	17.22	0.277
95 SQ	589	0.45	14.69	19.79	0.210
120 SQ	760	0.45	16.42	21.52	0.164



船舶用ケーブル

シリコンゴム絶縁高強度高圧ケーブル (HSV-SiF)

Silicone rubber High strength-voltage Cable
1.1kV / 3.3kV / 6.9kV / 13.8kV

- 耐熱-耐寒性及び柔軟性が優れている。特に他の製品に比べて高強度及び耐衝撃性が非常に優れている。
- ハロゲンフリーの製品で、火事時に有毒ガスが発生しない。高熱が発生する高電圧用機械及び変圧器、モーター、ゼネレイトなどに幅広く使用。
- 製鉄所、発電所内の電力信号転送用リード線及び鉄鋼産業、朝鮮及びセラミックス、硝子、セメント工場などでよく使われる。

<使用等級 / ULプロダクト>

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- UL 3641 Style : -60 °C ~ 200°C / 3300 Voltage
- UL 3642 Style : -60 °C ~ 200°C / 6900 Voltage
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製品規格

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