



High-temperature wire

SRG-K

Silicone Fiberglass-Braided Multicore Cable

300/500 V (450/750 V) silicone multicore cable with overall varnished E-glass outer braid



DIN VDE 0250 / SiHF-GL

300/500 V

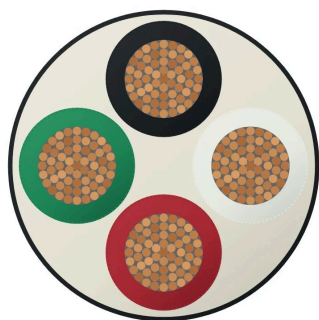
-60 to +180/+200 °C

Application

SRG-K (SiHF-GL) flexible high-temperature multicore cable combining Class 5 tinned copper conductors, EI2 silicone core insulation, an inner silicone sheath, and a silicone-varnished E-glass outer braid for -60 °C to +180 °C (+200 °C) service.

Typical uses: Metallurgy & Steel Rolling Mills, Cement Kilns & Glass Furnaces, Industrial Ovens & Bakery Lines, Plastic Extrusion & Moulding, Foundry & Heat-Treatment Plants

Construction



Cross-section, not to scale

- 1 Class 5 tinned copper conductor
- 2 Silicone rubber core insulation
- 3 Inner silicone rubber bedding sheath
- 4 Silicone-varnished E-glass outer braid

Technical data

Typical values

Rated voltage U ₀ /U	300/500 V (up to 450/750 V)
Insulation resistance	≥ 200 MΩ·km at +20 °C
Short-term peak temperature	+250 °C intermittent thermal peak
Conductor stranding	IEC 60228 Class 5 fine-stranded tinned Cu
Min. bending radius (flexing)	12 × overall cable diameter
Halogen-free & acid gas	IEC 60754-1 & IEC 60754-2
Standards	DIN VDE 0250-1 / EN 50525-2-83 / JB/T 8734

AC test voltage	2000 V AC (50 Hz, 5 min)
Continuous operating temp.	-60 °C to +180 °C (+200 °C jacket)
Low-temperature limit	-60 °C fixed · -25 °C flexing
Min. bending radius (fixed)	6 × overall cable diameter
Flame retardance	IEC 60332-1-2 self-extinguishing
Abrasion & notch resistance	Reinforced by varnished E-glass braid

Sizes

19 standard constructions

Tick the sizes you need and send this page to info@tebaoflex.com or WhatsApp +86 185 9591 3361.

Order designation	Cross-section / size	Conductor build	Wall ≈ mm	Outer Ø ≈ mm	Metal kg/km	Weight ≈ kg/km	Min. bend R fixed mm
Standard SRG-K configurations 19 sizes							
☐ SRG-K 2×0.75	2×0.75	Class 5 Sn-Cu (0.75 mm ²)	1.40	7.50	14.4	80.8	45
☐ SRG-K 3G0.75	3G0.75	Class 5 Sn-Cu (0.75 mm ²)	1.40	7.90	21.6	95.2	47
☐ SRG-K 4G0.75	4G0.75	Class 5 Sn-Cu (0.75 mm ²)	1.40	8.50	28.8	114.1	51
☐ SRG-K 5G0.75	5G0.75	Class 5 Sn-Cu (0.75 mm ²)	1.40	9.20	36.0	135.9	55
☐ SRG-K 2×1	2×1	Class 5 Sn-Cu (1 mm ²)	1.40	7.90	19.2	92.8	47
☐ SRG-K 3G1	3G1	Class 5 Sn-Cu (1 mm ²)	1.40	8.30	28.8	110.1	50
☐ SRG-K 4G1	4G1	Class 5 Sn-Cu (1 mm ²)	1.40	8.90	38.4	131.9	53
☐ SRG-K 5G1	5G1	Class 5 Sn-Cu (1 mm ²)	1.40	9.60	48.0	156.7	58
☐ SRG-K 2×1.5	2×1.5	Class 5 Sn-Cu (1.5 mm ²)	1.40	8.50	28.8	114.1	51
☐ SRG-K 3G1.5	3G1.5	Class 5 Sn-Cu (1.5 mm ²)	1.40	8.90	43.2	136.7	53
☐ SRG-K 4G1.5	4G1.5	Class 5 Sn-Cu (1.5 mm ²)	1.40	9.70	57.6	168.6	58
☐ SRG-K 5G1.5	5G1.5	Class 5 Sn-Cu (1.5 mm ²)	1.40	10.40	72.0	199.6	62
☐ SRG-K 7G1.5	7G1.5	Class 5 Sn-Cu (1.5 mm ²)	1.40	11.30	100.8	251.5	68
☐ SRG-K 12G1.5	12G1.5	Class 5 Sn-Cu (1.5 mm ²)	1.40	14.60	172.8	424.3	88
☐ SRG-K 3G2.5	3G2.5	Class 5 Sn-Cu (2.5 mm ²)	1.40	10.80	72.0	209.6	65
☐ SRG-K 4G2.5	4G2.5	Class 5 Sn-Cu (2.5 mm ²)	1.40	11.80	96.0	260.3	71
☐ SRG-K 5G2.5	5G2.5	Class 5 Sn-Cu (2.5 mm ²)	1.40	12.80	120.0	313.3	77
☐ SRG-K 4G4	4G4	Class 5 Sn-Cu (4 mm ²)	1.80	13.90	153.6	381.6	83
☐ SRG-K 4G6	4G6	Class 5 Sn-Cu (6 mm ²)	1.80	15.40	230.4	510.2	92

– Outer diameters and weights are nominal engineering values for SRG-K subject to standard manufacturing tolerances per DIN VDE 0250-1 / EN 50525-2-83 / JB/T 8734.

Electrical & rating data

19 sizes

Configuration	Max. DC R @ 20 °C Ω/km	Primary rating (A or kW)	Derated / AC rating	Dielectric test V AC rms
2×0.75 mm ²	26.70	12.0	9.0	2,000
3G0.75 mm ²	26.70	12.0	9.0	2,000
4G0.75 mm ²	26.70	12.0	9.0	2,000

Configuration	Max. DC R @ 20 °C Ω/km	Primary rating (A or kV)	Derated / AC rating	Dielectric test V AC rms
5G0.75 mm ²	26.70	12.0	9.0	2,000
2×1 mm ²	20.00	15.0	12.0	2,000
3G1 mm ²	20.00	15.0	12.0	2,000
4G1 mm ²	20.00	15.0	12.0	2,000
5G1 mm ²	20.00	15.0	12.0	2,000
2×1.5 mm ²	13.70	18.0	14.0	2,000
3G1.5 mm ²	13.70	18.0	14.0	2,000
4G1.5 mm ²	13.70	18.0	14.0	2,000
5G1.5 mm ²	13.70	18.0	14.0	2,000
7G1.5 mm ²	13.70	18.0	14.0	2,000
12G1.5 mm ²	13.70	18.0	14.0	2,000
3G2.5 mm ²	8.21	26.0	20.0	2,000
4G2.5 mm ²	8.21	26.0	20.0	2,000
5G2.5 mm ²	8.21	26.0	20.0	2,000
4G4 mm ²	5.09	34.0	27.0	2,000
4G6 mm ²	3.39	44.0	34.0	2,000

– Electrical resistance at +20 °C and dielectric withstand voltages verified per DIN VDE 0250-1 / EN 50525-2-83 / JB/T 8734.

Standards and approvals

- ✓ DIN VDE 0250-1 / EN 50525-2-83 / JB/T 8734
- ✓ CE (2014/35/EU) & RoHS 3 (2015/863/EU) Compliant
- ✓ REACH SVHC & Halogen/Asbestos Compliance Verified

Certifications



Management systems: ISO 9001, ISO 14001, ISO 45001

Request a quotation

Send the size, length and destination. An application engineer replies within 2 business hours.

WhatsApp / phone

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Email

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Web

tebaoflex.com/cables/srg-k-silicone-fiberglass-braided-multicore-cable



Typical values for this cable type, based on DIN VDE 0250-1 / EN 50525-2-83 / JB/T 8734. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.