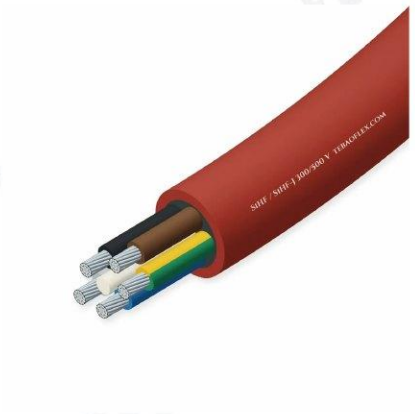


High-temperature fluoropolymer, silicone & HV wires

SiHF/SiHF-J 300/500 V

SiHF / SiHF-J 300/500 V 180 °C Multi-Core Silicone Cable

DIN VDE 0250 red-oxide 180 °C halogen-free multi-core silicone cable

DIN VDE 0250-816 | 300/500 V · +180 °C | LSZH Halogen-Free

Application

SiHF / SiHF-J 300/500 V pairs IEC 60228 Class 5 tinned copper cores with 180 °C silicone core insulation and a red-oxide halogen-free silicone outer sheath for steelworks, foundries, saunas, and cold rooms.

Typical uses: Industrial ovens, kilns & thermal processing, Aerospace avionics, defence & instrumentation, Steelworks, glassworks & foundry equipment, Switchgear cabinets, motors & heating appliances

Construction





Cross-section, not to scale

1	**Conductor**	IEC 60228 Class 5 flexible tinned annealed copper · IEC 60228 Class 5
2	**Dielectric / core insulation**	Colour-coded 180 °C halogen-free silicone rubber (HD 308 S2) · DIN VDE 0250-816
3	**Core assembly & separator**	Concentric cabled core assembly with low-friction fleece/polyester separator tape · DIN VDE 0250-816
4	**Outer sheath**	Red-oxide halogen-free 180 °C silicone rubber outer sheath · 180 °C Continuous (200 °C Peak)

Technical data

Typical values

Rated voltage	300/500 V	Test voltage	2 kV AC
Conductor	Tinned Cu · Cl.5	Insulation	Colour-coded 180 °C halogen-free silicone
Impedance / insulation	≥ 1,000 MΩ·km at 20 °C	Temp. range (fixed)	-60 °C to +180 °C
Temp. range (flexing)	-25 °C to +180 °C	Peak / short-circuit	+220 °C (short-term)
Min. bending radius	7.5 × OD (fixed)	Flame / fire rating	180 °C Continuous (200 °C Peak)
Thermal / chemical	Halogen-Free Silicone	Mechanical / special	Cold-Flex -60 °C
Outer finish	Red-oxide halogen-free 180 °C silicone		

Sizes

9 standard constructions

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

Cores × mm²	Outer Ø ≈ mm	Max. R20 Ω/km	Metal index kg/km	Weight ≈ kg/km	Min. bend R 7.5×D mm
☐ 2×0.75 mm²	6.4	26.73	14	55	48
☐ 3G0.75 mm²	6.8	26.73	22	71	51
☐ 3G1.0 mm²	7.4	20.05	29	89	56
☐ 4G1.0 mm²	8.2	20.05	38	112	61
☐ 3G1.5 mm²	8.2	13.67	43	120	61
☐ 4G1.5 mm²	9.0	13.67	58	153	68
☐ 5G1.5 mm²	9.8	13.67	72	186	74
☐ 4G2.5 mm²	10.6	8.20	96	235	80
☐ 5G2.5 mm²	11.6	8.20	120	288	87

- Conductor DC resistance R20 at 20 °C per IEC 60228 Class 5.
- Minimum bending radius calculated at 7.5 × nominal outer diameter (OD). Custom core counts and lengths available on request.

Standards and approvals

- DIN VDE 0250-816
- IEC 60228 Class 5
- IEC 60754-1 Halogen-Free
- EN 10204 3.1 Factory Test Certificate
- CE, RoHS 2 (2011/65/EU) & REACH

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
+86 185 9591 3361

Email
info@tebaoflex.com

Web
tebaoflex.com/cables/sihf-sihf-j-300-500v-180c-multicore-silicone-cable

Typical values for this cable type, based on DIN VDE 0250-816 · IEC 60228 Class 5 · IEC 60754-1 Halogen-Free. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.