High-temperature fluoropolymer, silicone & HV wires

SiHF-GL-P / SiHF-GLS-P

SiHF-GL-P 300/500 V 180 °C Steel-Braided Silicone Cable

Multi-core 180 °C silicone cable with fibreglass & steel wire braid



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

Application

SiHF-GL-P / SiHF-GLS-P upgrades multi-core 180 °C silicone cable with a fibreglass wrapping (GL) and galvanized steel wire outer braid (P) to resist slag, impact, and mechanical abrasion in glassworks and steel mills.

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	**Core insulation**	Colour-coded 180 °C halogen-free silicone rubber (inner silicone sheath) · DIN VDE 0250-816
3	**Inner silicone sheath**	Halogen-free 180 °C red-oxide silicone rubber inner sheath · DIN VDE 0250-816
4	**Fibreglass protective wrap**	Woven fibreglass thermal and mechanical separator braid (GL) · DIN VDE 0250-816
5	**Galvanized steel wire braid**	Galvanized steel wire outer braid (P) over fibreglass & silicone inner sheath · 180 °C Silicone + Steel Braid

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	10 × OD (fixed)	Flame / fire rating	180 °C Silicone + Steel Braid
Thermal / chemical	Mechanical & Slag Armour	Mechanical / special	Halogen-Free
Outer finish	Galvanized steel wire outer braid (P)		

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 10×D mm
☐ 2×0.75 mm²	7.8	26.73	14	98	78
☐ 3G0.75 mm²	8.2	26.73	22	118	82
☐ 3G1.0 mm²	8.8	20.05	29	141	88
☐ 4G1.0 mm²	9.6	20.05	38	173	96
☐ 3G1.5 mm²	9.6	13.67	43	180	96
☐ 4G1.5 mm²	10.4	13.67	58	223	104
☐ 5G1.5 mm²	11.2	13.67	72	265	112
☐ 4G2.5 mm²	12.0	8.20	96	324	120
☐ 5G2.5 mm²	13.0	8.20	120	390	130

- Conductor DC resistance R20 at 20 °C per IEC 60228 Class 5.
- Minimum bending radius calculated at 10 × 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-gl-p-sihf-gls-p-180c-steel-braid-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.