High-temperature fluoropolymer, silicone & HV wires

FZLSi 10/12 kV Ignition

FZLSi 10/12 kV 180 °C Silicone Burner Ignition Cable

DIN-style 10/12 kV flexible tinned copper silicone boiler ignition cable



DIN VDE 0250 (ref.) | 10/12 kV · +180 °C | LSZH Halogen-Free

Application

FZLSi 10/12 kV Ignition uses IEC 60228 Class 5 flexible tinned copper inside heavy-wall red-oxide 180 °C halogen-free silicone rubber rated up to 12 kV peak for industrial oil/gas burners, boilers, and furnaces.

Typical uses: Industrial oil/gas burners & steam boilers, Stationary CHP gas engines & cogeneration, Automotive, motorsport & heavy-duty ignition, X-ray, laser & high-voltage DC power supplies

Construction





Cross-section, not to scale

1	**Conductor**	IEC 60228 Class 5 flexible tinned annealed copper · IEC 60228 Class 5
2	**Extruded insulation**	Heavy-wall red-oxide 180 °C corona-resistant silicone rubber · DIN VDE 0250 (ref.)

Technical data

Typical values

Rated voltage	10/12 kV	**Test voltage**	25 kV AC
Conductor	Tinned Cu · Cl.5	**Insulation**	Heavy-wall red-oxide 180 °C
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	8 × OD (fixed)	**Flame / fire rating**	12 kV Peak Burner Ignition
Thermal / chemical	180 °C Continuous Silicone	**Mechanical / special**	Ozone & Corona Resistant
Outer finish	Red-oxide heavy-wall 180 °C halogen-free		

Sizes

4 standard constructions

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

Conductor · Voltage	Outer Ø ≈ mm	Max. R20 Ω/km	Metal index kg/km	Weight ≈ kg/km	Min. bend R 8×D mm
☐ 1×1.0 mm² (10 kV)	5.6	20.05	10	51	45
☐ 1×1.5 mm² (12 kV)	6.4	13.67	14	67	51
☐ 1×2.5 mm² (12 kV)	7.2	8.20	24	94	58
☐ 1×4.0 mm² (15 kV)	8.4	5.09	38	136	67

- Conductor DC resistance R20 at 20 °C per IEC 60228 Class 5.
- Minimum bending radius calculated at 8 × nominal outer diameter (OD). Custom core counts and lengths available on request.

Standards and approvals

- ✓ DIN VDE 0250 (ref.)
- ✓ 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/fzlsi-10-12kv-180c-silicone-burner-ignition-cable

Typical values for this cable type, based on DIN VDE 0250 (ref.) · 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.