High-temperature fluoropolymer, silicone & HV wires

10mm 80kV Dual-Silicone Ignition

10 mm 80 kV Dual-Silicone Wire-Wound Ignition Cable

Ultra-high-voltage 80 kV dual-layer silicone EMI-suppression ignition lead



SAE J2031 Class E/F | 80 kV · +260 °C | Silicone HV

Application

10 mm 80 kV Dual-Silicone Ignition pairs a spiral wire-wound alloy suppression core over a carbon-ferrite center with dual-layer 260 °C red silicone insulation and reinforcing fibreglass braid for heavy gas engines and racing ignitions.

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**	Spiral wire-wound stainless resistance alloy EMI-suppression core over carbon-ferrite center · SAE J2031 / ISO 3808
2	**Inner HV dielectric**	Red-oxide inner silicone rubber + reinforcing fibreglass braid · SAE J2031 Class E/F
3	**Reinforcing fibreglass braid**	Woven high-tensile fibreglass reinforcing braid · SAE J2031 Class E/F
4	**Outer silicone jacket**	Red 10 mm 260 °C oil- & ozone-resistant outer silicone jacket · 80 kV Peak Dielectric

Technical data

Typical values

Rated voltage	80 kV	**Test voltage**	80 kV DC
Conductor	Spiral EMI Alloy	**Insulation**	Red-oxide inner silicone rubber +
Impedance / insulation	≥ 1,000 MΩ·km at 20 °C	**Temp. range (fixed)**	-60 °C to +260 °C
Temp. range (flexing)	-40 °C to +260 °C	**Peak / short-circuit**	+300 °C (short-term)
Min. bending radius	8 × OD (fixed)	**Flame / fire rating**	80 kV Peak Dielectric
Thermal / chemical	Spiral Wire-Wound EMI	**Mechanical / special**	260 °C Dual Silicone
Outer finish	Red 10 mm 260 °C oil- & ozone-resistant		

Sizes

4 standard constructions

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

	Outer Ø · Suppression	Outer Ø ≈ mm	Max. R20 Ω/km	Metal index kg/km	Weight ≈ kg/km	Min. bend R 8×D mm
☐	**10 mm · Spiral Alloy (500 Ω/m)**	**10.0**	**500,000.00**	**12**	**128**	**80**
☐	**10 mm · Spiral Alloy (1.5 kΩ/m)**	**10.0**	**1,500,000.00**	**10**	**126**	**80**
☐	**10.5 mm · Dual Silicone (500 Ω/m)**	**10.5**	**500,000.00**	**12**	**142**	**84**
☐	**11.0 mm · Heavy Gas-Engine (1 kΩ/m)**	**11.0**	**1,000,000.00**	**12**	**156**	**88**

- Conductor DC resistance R20 at 20 °C per SAE J2031 / ISO 3808.
- Minimum bending radius calculated at 8 × nominal outer diameter (OD). Custom core counts and lengths available on request.

Standards and approvals

- ✓ SAE J2031 Class E/F
- ✓ ISO 3808 Class F
- ✓ ISO 6856
- ✓ 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/10mm-80kv-dual-silicone-wire-wound-ignition-cable

Typical values for this cable type, based on SAE J2031 Class E/F · ISO 3808 Class F · ISO 6856. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.