High-temperature fluoropolymer, silicone & HV wires

FEP/FEP 600V 200°C Control

FEP/FEP 600 V 200 °C Multi-Core High-Temp Control Cable

Multi-conductor 600 V 200 °C all-FEP chemical & heat-resistant control cable

DIN VDE 0250 (6Y) | 600 V · +200 °C | Fluoropolymer HT



Application

FEP/FEP 600 V 200 °C Control combines stranded bare copper cores with colour-coded FEP insulation and a black extruded FEP outer sheath for multi-circuit 200 °C industrial ovens, kilns, and chemical reactors.

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 bare annealed copper · IEC 60228 Class 5
2	**Dielectric / core insulation**	Colour-coded extruded FEP fluoropolymer core insulation · DIN VDE 0250 (6Y)
3	**Core assembly & separator**	Concentric cabled core assembly with low-friction fleece/polyester separator tape · DIN VDE 0250 (6Y)
4	**Outer sheath**	Black chemical-, oil- & heat-resistant extruded FEP outer sheath · 200 °C Continuous FEP

Technical data

Typical values

Rated voltage	600 V	Test voltage	2.5 kV AC
Conductor	Bare Cu · Cl.5	Insulation	Colour-coded extruded FEP fluoropolymer
Impedance / insulation	≥ 1,000 MΩ·km at 20 °C	Temp. range (fixed)	-100 °C to +200 °C
Temp. range (flexing)	-55 °C to +200 °C	Peak / short-circuit	+220 °C (short-term)
Min. bending radius	10 × OD (fixed)	Flame / fire rating	200 °C Continuous FEP
Thermal / chemical	Acid, Oil & Ozone Proof	Mechanical / special	IEC 60332-1-2 Flame
Outer finish	Black chemical-, oil- & heat-resistant		

Sizes

8 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
☐ 2×0.5 mm²	4.6	39.00	10	41	46
☐ 3G0.75 mm²	5.4	26.00	22	68	54
☐ 4G0.75 mm²	5.9	26.00	29	86	59
☐ 3G1.0 mm²	5.9	19.50	29	86	59
☐ 4G1.0 mm²	6.5	19.50	38	108	65
☐ 3G1.5 mm²	6.6	13.30	43	117	66
☐ 4G1.5 mm²	7.3	13.30	58	151	73
☐ 4G2.5 mm²	8.8	7.98	96	236	88

- 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 (6Y)
- UL AWM Style 20468
- IEC 60228 Class 5
- 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/fep-fep-600v-200c-multi-core-control-cable

Typical values for this cable type, based on DIN VDE 0250 (6Y) · UL AWM Style 20468 · IEC 60228 Class 5. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.