High-temperature fluoropolymer, silicone & HV wires

VDE 6YI1 205°C FEP

DIN VDE 6YI1 205 °C FEP High-Temp Equipment Wire

DIN VDE 0207-6 6YI1 dark-blue 205 °C extruded FEP equipment wire

DIN VDE 0207-6 (6YI1) | 300/500 V · +205 °C | Fluoropolymer HT



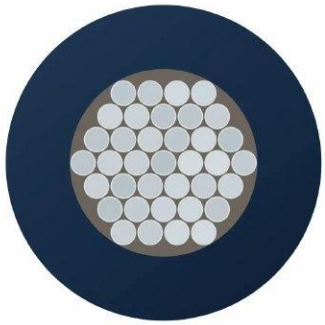
Application

VDE 6YI1 205 °C FEP uses Class 5 silver/tinned copper conductors with VDE-compound 6YI1 dark-blue extruded FEP fluoropolymer insulation rated 300/500 V and 205 °C for European machinery, kilns, and heating fixtures.

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	**Extruded insulation**	Dark-blue extruded FEP (6YI1) fluoropolymer insulation · DIN VDE 0207-6 (6YI1)

Technical data

Typical values

Rated voltage	300/500 V	**Test voltage**	2.5 kV AC
Conductor	Tinned Cu · Cl.5	**Insulation**	Dark-blue extruded FEP (6YI1)
Impedance / insulation	≥ 1,000 MΩ·km at 20 °C	**Temp. range (fixed)**	-100 °C to +205 °C
Temp. range (flexing)	-55 °C to +205 °C	**Peak / short-circuit**	+220 °C (short-term)
Min. bending radius	8 × OD (fixed)	**Flame / fire rating**	205 °C Compound 6YI1
Thermal / chemical	Weather & Solvent Proof	**Mechanical / special**	Zero Flame Propagation
Outer finish	Dark-blue extruded FEP (6YI1)		

Sizes

8 standard constructions

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

Conductor mm²	Outer Ø ≈ mm	Max. R20 Ω/km	Metal index kg/km	Weight ≈ kg/km	Min. bend R 8×D mm
☐ 1×0.25 mm²	1.4	81.37	2	11	11.2
☐ 1×0.5 mm²	1.6	40.09	5	14	13.0
☐ 1×0.75 mm²	1.8	26.73	7	17	14.0
☐ 1×1 mm²	2.0	20.05	10	21	16.0
☐ 1×1.5 mm²	2.3	13.67	14	26	18.0
☐ 1×2.5 mm²	3.1	8.20	24	46	25.0
☐ 1×4 mm²	3.6	5.09	38	70	29.0
☐ 1×6 mm²	4.2	3.39	58	104	34.0

- 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 0207-6 (6YI1)
- IEC 60228 Class 5
- IEC 60332-1-2
- 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/vde-6yi1-205c-fep-high-temp-equipment-wire

Typical values for this cable type, based on DIN VDE 0207-6 (6YI1) · IEC 60228 Class 5 · IEC 60332-1-2. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.