High-temperature fluoropolymer, silicone & HV wires

VDE 5Y PTFE 600/1000V

DIN VDE 5Y PTFE 600/1000 V 260 °C High-Temp Wire

European 260 °C 600/1000 V silver-plated copper extruded PTFE single core

DIN VDE 0250 (5Y) | 600/1000 V · +260 °C | Fluoropolymer HT



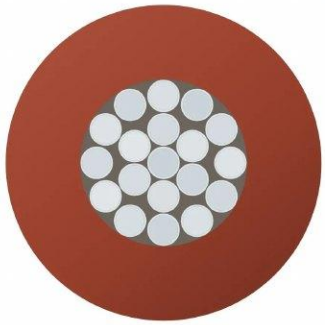
Application

VDE 5Y PTFE 600/1000 V pairs IEC 60228 Class 5 silver-plated copper with heavy-wall red PTFE (5Y) fluoropolymer insulation rated 600/1000 V and -190 °C to +260 °C for European process heating and switchboards.

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 silver-plated annealed copper · IEC 60228 Class 5
2	Extruded insulation	Red extruded PTFE (5Y) fluoropolymer insulation · DIN VDE 0250 (5Y)

Technical data

Typical values

Rated voltage	600/1000 V	**Test voltage**	3.5 kV AC
Conductor	Silver-Plated Cu	**Insulation**	Red extruded PTFE (5Y) fluoropolymer
Impedance / insulation	≥ 1,000 MΩ·km at 20 °C	**Temp. range (fixed)**	-190 °C to +260 °C
Temp. range (flexing)	-65 °C to +260 °C	**Peak / short-circuit**	+300 °C (short-term)
Min. bending radius	8 × OD (fixed)	**Flame / fire rating**	260 °C Continuous PTFE
Thermal / chemical	Cryogenic to +260 °C	**Mechanical / special**	Acid, Oil & Ozone Proof
Outer finish	Red 600/1000 V extruded PTFE (5Y) outer		

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	1.9	81.37	2	11	15
☐	1×0.5 mm²	2.1	40.09	5	14	17
☐	1×0.75 mm²	2.3	26.73	7	17	18
☐	1×1 mm²	2.5	20.05	10	22	20
☐	1×1.5 mm²	2.8	13.67	14	30	22
☐	1×2.5 mm²	3.7	8.20	24	52	30
☐	1×4 mm²	4.2	5.09	38	76	34
☐	1×6 mm²	4.8	3.39	58	111	38

- 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 (5Y)
- IEC 60228 Class 5
- EN 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-5y-ptfe-600-1000v-260c-high-temp-wire

Typical values for this cable type, based on DIN VDE 0250 (5Y) · IEC 60228 Class 5 · EN 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.