Thermocouple, RTD & downhole logging cables

FEP/C/FEP 4×0.22 RTD

FEP/C/FEP 4×0.22 mm² 200 °C Pt100 RTD Sensor Cable

4-wire silver-plated copper screened FEP/FEP 200 °C Pt100 RTD cable



IEC 60751 (Pt100 RTD) | 300 V · +200 °C | Fluoropolymer HT

Application

FEP/C/FEP 4×0.22 RTD features four colour-coded silver-plated copper conductors (2× red, 2× white) in FEP insulation, ≥ 85% silver/tinned copper braid, and a white chemical-proof FEP jacket for 4-wire Pt100 RTD sensors.

Typical uses: Industrial kilns, autoclaves & heat-treatment furnaces, Chemical reactors, refineries & process skids, Aerospace composite curing & thermal testing, Semiconductor, pharmaceutical & laboratory chambers

Construction





Cross-section, not to scale

1	**Conductor**	IEC 60228 Class 5 flexible silver-plated annealed copper · IEC 60228 Class 5
2	**Dielectric / core insulation**	Extruded FEP fluoropolymer (2× red, 2× white per IEC 60751) · IEC 60751 (Pt100 RTD)
3	**Core assembly & separator**	Concentric cabled core assembly with low-friction fleece/polyester separator tape · IEC 60751 (Pt100 RTD)
4	**Metallic EMC screen**	Overall ≥ 85% tinned/silver-plated copper braid shield · EMC ≥ 85% shield
5	**Outer sheath**	White chemical- & steam-resistant extruded FEP outer sheath · 200 °C Continuous FEP

Technical data

Typical values

Rated voltage	300 V	Test voltage	1.5 kV AC
Conductor	Silver-Plated Cu	Insulation	Extruded FEP fluoropolymer (2× red, 2×
Impedance / insulation	≥ 1,000 MΩ·km at 20 °C	Temp. range (fixed)	-75 °C to +200 °C
Temp. range (flexing)	-40 °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	≥ 85% EMC Braid Screen	Mechanical / special	Acid, Steam & Oil Proof
Outer finish	White chemical- & steam-resistant		

Sizes

5 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
☐ 4×0.22 mm² (Pt100)	4.2	90.64	18	36	42
☐ 4×0.25 mm² (Pt100)	4.5	81.37	21	41	45
☐ 4×0.34 mm² (Pt100)	4.9	59.23	26	49	49
☐ 4×0.5 mm² (Pt100)	5.5	40.09	34	62	55
☐ 4×0.75 mm² (Pt100)	6.2	26.73	45	79	62

- 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

- ✓ IEC 60751 (Pt100 RTD)
- ✓ DIN VDE 0812
- ✓ UL VW-1
- ✓ 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-c-fep-4x0-22-mm2-pt100-rtd-sensor-cable

Typical values for this cable type, based on IEC 60751 (Pt100 RTD) · DIN VDE 0812 · UL VW-1. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.