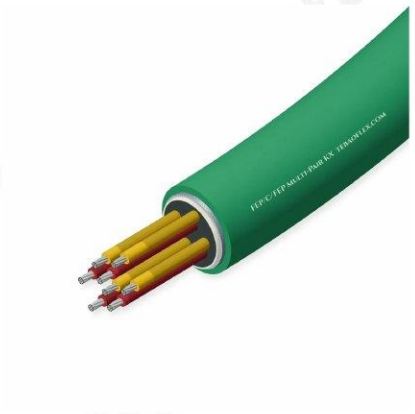
Thermocouple, RTD & downhole logging cables

FEP/C/FEP Multi-Pair KX

200 °C Thermocouple Cable

IEC 60584 green FEP multi-pair screened Type KX extension cable



IEC 60584-3 Type KX | 300 V · +200 °C | Fluoropolymer HT

Application

FEP/C/FEP Multi-Pair KX bundles multiple twisted Type KX NiCr/NiAl thermocouple pairs in FEP insulation with overall ≥ 85% copper braid and an IEC 60584 green FEP jacket for multi-zone 200 °C furnace monitoring.

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**	Matched ASTM E230 Type K Chromel (NiCr +) / Alumel (NiAl -) thermocouple alloy conductors · ASTM E230 / IEC 60584
2	**Dielectric / core insulation**	Extruded FEP fluoropolymer (IEC green + / white - pairs) · IEC 60584-3 Type KX
3	**Core assembly & separator**	Concentric cabled core assembly with low-friction fleece/polyester separator tape · IEC 60584-3 Type KX
4	**Metallic EMC screen**	Overall ≥ 85% tinned copper wire braid EMC shield · EMC ≥ 85% shield
5	**Outer sheath**	Green (IEC 60584 KX) chemical-resistant extruded FEP outer sheath · 200 °C Continuous FEP

Technical data

Typical values

Rated voltage	300 V	Test voltage	1.5 kV AC
Conductor	Type K NiCr/NiAl	Insulation	Extruded FEP fluoropolymer (IEC green + /
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	IEC Green KX Identification
Outer finish	Green (IEC 60584 KX) chemical-resistant		

Sizes

6 standard constructions

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

Pairs × mm²	Outer Ø ≈ mm	Max. R20 Ω/km	Metal index kg/km	Weight ≈ kg/km	Min. bend R 10×D mm
☐ 2P×0.5 mm² (Type KX)	7.2	1,960.00	26	82	72
☐ 4P×0.5 mm² (Type KX)	8.8	1,960.00	46	134	88
☐ 6P×0.5 mm² (Type KX)	10.4	1,960.00	68	188	104
☐ 8P×0.5 mm² (Type KX)	11.8	1,960.00	90	242	118
☐ 12P×0.5 mm² (Type KX)	14.0	1,960.00	134	345	140
☐ 4P×1.0 mm² (Type KX)	10.6	980.00	86	215	106

- Conductor DC resistance R20 at 20 °C per ASTM E230 / IEC 60584.
- Minimum bending radius calculated at 10 × nominal outer diameter (OD). Custom core counts and lengths available on request.

Standards and approvals

- IEC 60584-3 Type KX
- ASTM E230
- DIN 43710
- 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-multi-pair-kx-200c-thermocouple-cable

Typical values for this cable type, based on IEC 60584-3 Type KX · ASTM E230 · DIN 43710. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.