Thermocouple, RTD & downhole logging cables

ANSI Type K PTFE Cable

ANSI Type K Fused-PTFE Tape 260 °C Thermocouple Cable

Slim sintered PTFE tape-wrapped 260 °C duplex Type K thermocouple cable

ASTM E230 | 300 V · +260 °C | Fluoropolymer HT



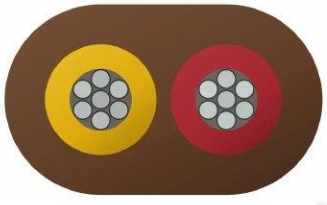
Application

ANSI Type K Fused PTFE Tape 260 °C wraps matched NiCr/NiAl thermocouple conductors in heat-sealed sintered PTFE tape under a brown fused PTFE outer tape for compact, autoclave-ready 260 °C instrumentation.

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	Sintered fused PTFE fluoropolymer tape (ANSI yellow + / red -) · ASTM E230
3	Outer sheath	Brown heat-sealed fused PTFE tape flat outer jacket

Technical data

Typical values

Rated voltage	300 V	**Test voltage**	1.5 kV AC
Conductor	Type K NiCr/NiAl	**Insulation**	Sintered fused PTFE fluoropolymer tape
Impedance / insulation	≥ 1,000 MΩ·km at 20 °C	**Temp. range (fixed)**	-200 °C to +260 °C
Temp. range (flexing)	-65 °C to +260 °C	**Peak / short-circuit**	+300 °C (short-term)
Min. bending radius	6 × OD (fixed)	**Flame / fire rating**	Zero Outgassing PTFE
Thermal / chemical	Autoclave & Vacuum Ready	**Mechanical / special**	260 °C Continuous
Outer finish	Brown heat-sealed fused PTFE tape flat		

Sizes

5 standard constructions

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

Pair × AWG	Outer Ø ≈ mm	Max. R20 Ω/km	Metal index kg/km	Weight ≈ kg/km	Min. bend R 6×D mm
☐ 2×24 AWG (Type K)	2.1	4,880.00	4	14	13
☐ 2×20 AWG (Type K)	2.7	1,930.00	10	24	16
☐ 2×18 AWG (Type K)	3.2	1,215.00	16	36	19
☐ 2×16 AWG (Type K)	3.8	765.00	25	52	23
☐ 2×14 AWG (Type K)	4.4	480.00	39	76	26

- Conductor DC resistance R20 at 20 °C per ASTM E230 / IEC 60584.
- For flat cable geometries, Outer Ø indicates nominal bending-plane thickness; minimum bending radius is 6 × nominal thickness.

Standards and approvals

- ✓ ASTM E230
- ✓ ANSI MC96.1 Type K
- ✓ IEC 60584-3
- ✓ 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/ansi-type-k-fused-ptfe-tape-260c-thermocouple-cable

Typical values for this cable type, based on ASTM E230 · ANSI MC96.1 Type K · IEC 60584-3. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.