



EMPOWERING PROCESS MANAGEMENT



K Type FIBER GLASS Insulated & Sheathed Thermocouple Wire Max. Temp. Up to 500 °C



K TYPE THERMOCOUPLE GRADE FIBER GLASS WIRES are generally used to manufacture FLEXIBLE BAYONET THERMOCOUPLE & EXTENSION GRADE wire is commonly used to link the thermocouple to control instrumentation. or can used to connect to data loggers via thermocouple connectors.

TYPE OF TC	Metal Alloy + ve leg	Metal Alloy - ve leg
K	Nickel Chromium	Nickel Aluminum

APPLICATIONS	PRODUCT FEATURES
<ul style="list-style-type: none"> Manufacturing of Temperature Sensors Furnaces & Ovens Plastic Processing Equipments Heat Treatment Thermocouple Circuits Various Processing Industries 	<ul style="list-style-type: none"> Continuous use up to 500 °C Single exposure up to 650 °C Good Thermal Durability & Strength Flame Retardant Superior Abrasion Resistance Better flexibility

PRODUCT SPECIFICATIONS:	
Conductor	Solid or stranded thermocouple original & extension grade wires from 12 AWG to 24 AWG (2.44mm to 0.63mm)
Core Insulation	Braided Fiber Glass with high temperature impregnation *
Construction	Parallel Conductors
No. of Pair	1
Outer Sheath	Braided Fiber Glass with high temperature impregnation *
SS JACKET	Outside SS Metal Over Braid
Color Coding	Confirms to ANSI MC 96.1 (International Color Codes available), Refer Table

- Impregnation maintained up to 180 °C. Option for supply of wire without impregnation for continuous operation at elevated temperature.
- Optional construction of twisted conductors.
- Duplex construction are also available
- Optional Color coding: IEC 60584 – 3, BS 1843, DIN 13711, JIS C 1610 – 1981, NFC 42334 as per requirement
- Thermocouple wires are normally supplied to meet tolerance above 0 °C. If material is reqd. to meet tolerance below 0 °C, the purchaser should clarify the same in Purchase Order. Special selection of material is reqd.
- Initial calibration & Tolerance suggested, its requirement should be discussed well in advance before placing the order.

Initial Calibration Tolerances as per ASTM E230 and ANSI MC96.1

Thermocouple Designation	Temperature Range °C (°F)	Standard Grade Limits °C (°F) whichever is greater	Tolerance-Reference Junction 0°C (32 °F)
			Special Grade Limits °C(°F) Whichever is greater
Thermocouple Grade Wires			
Kt	0 (32) to 1250 (2282) -200 (-328) to 0 (32)	±2.2 (4.0) or ±0.75% ±2.2 (4.0) or ±2%	0 (32) to 1250 (2282) -200 (-328) to 0 (32)
Extension / Compensating Grade Wires			
Kx / Kc	0 (32) to 200 (400)	±2.2 (4.0)	



ELTEC CABLES & INSTRUMENTS

16, Bhaktinagar Station Plot, Rajkot-360 002. INDIA.
Tel. : +91 281 2480400 URL : www.thermocouplewire.co.in
E-mail : eltecin@gmail.com | sales@thermocouplewire.co.in