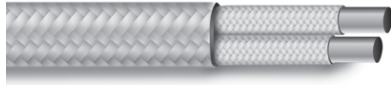




EMPOWERING PROCESS MANAGEMENT



HEAVY CERAMIC FIBER Insulated Thermocouple Wire Max. Temp. up to 1000 °C



CERAMIC FIBER INSULATION is ideal for **EXTREME TEMPERATURE APPLICATION**. Ceramic Fiber is braided on thermocouple conductors. It gives better flexibility even at elevated temperature and superior resistance to abrasion.

APPLICATIONS	PRODUCT FEATURES
<ul style="list-style-type: none"> • Metal Production • Furnaces & Ovens • Braided Thermocouple Replacement • Heat Treatment • Brick And Tile kiln • Steel & Aluminum 	<ul style="list-style-type: none"> • Continuous use up to 1000 °C • Single exposure up to 1250 °C • Good Thermal Durability & Strength • Flame Retardant • Superior Abrasion Resistance • Better flexibility

PRODUCT SPECIFICATIONS:	
Conductor	Solid or stranded thermocouple grade wires from 12 AWG to 24 AWG (2.44mm to 0.52mm)
Core Insulation	Braided Ceramic Fiber
Construction	Parallel Conductors
No. of Pair	1
Outer Sheath	Braided Ceramic Fiber
SS JACKET	Outside SS Metal braid
Color Coding	Supplied white without tracers

- Optional High Temperature Impregnation
- Other sizes in SWG and also different construction in other stranded sizes are available on request
- Optional construction of twisted conductors.
- Duplex construction are also available
- Optional color tracers for positive & negative polarity

TYPE OF TC	Metal Alloy + ve leg	Metal Alloy – ve leg	Thermal Tolerance
K	Ni Cr	Ni Al	ASTM E 230 – ANSI MC 96.1 & IEC EN 60584-2
E	Ni Cr	Cu Ni	ASTM E 230 – ANSI MC 96.1 & IEC EN 60584 - 2
N	Ni Cr Si	Ni Si	ASTM E 230 – ANSI MC 96.1 & IEC EN 60584 - 2

- 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.



ELTEC CABLES & INSTRUMENTS

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TYPE OF CABLE	Wire Size AWG	Type of Wire	Type K	Type N	Type E
Individual Core & Overall Jacket of BRAIDED CERAMIC FIBER	7 * 32	Stranded	Kt-7*32 CC	Nt-7*32CC	Et-7*32CC
	24	Solid	Kt-24 CC		
	22	Solid	Kt-22 CC		
	20	Solid	Kt-20 CC		
	18	Solid	Kt-18 CC		
	16	Solid	Kt-16 CC		
	14	Solid	Kt-14 CC		
	12	Solid	Kt-12 CC		
Individual Core & Overall Jacket of BRAIDED CERAMIC FIBER with Outside SS Metal Over Braid	7 * 32	Stranded	Kt-7*32 CCS	Nt-7*36CCS	Et-7*36CCS
	24	Solid	Kt-24 CCS		
	22	Solid	Kt-22 CC S		
	20	Solid	Kt-20 CCS		
	18	Solid	Kt-18 CCS		
	16	Solid	Kt-16 CCS		
	14	Solid	Kt-14 CCS		
	12	Solid	Kt-12 CCS		

- CC – INSULATION & JACKET OF CERAMIC FIBER BRAID
- CCS – INSULATION & JACKET OF CERAMIC FIBER BRAID with Outside SS METAL BRAID
- Duplex construction are suffix with D i.e. KtD ____

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				
J	0 (32) to 750 (1382)	±2.2 (4.0) or ±0.75%	±1.1 (2.0) or 0.4%	
K	0 (32) to 1250 (2282)	±2.2 (4.0) or ±0.75%	±1.1 (2.0) or 0.4%	
	-200 (-328) to 0 (32)	±2.2 (4.0) or ±2%	-----	
T	0 (32) to 350 (662)	±1.0 (1.8) or ±0.75%	±0.5 (1.0) or 0.4%	
	-200 (-328) to 0 (32)	±1.0 (1.8) or ±1.5%	-----	
E	0 (32) to 900 (1652)	±1.7 (3.0) or ±0.5%	±1.0 (1.8) or 0.4%	
	-200 (-328) to 0 (32)	±1.7 (3.0) or ±1%	-----	
N	0 (32) to 1300 (2372)	±2.2 (4.0) or ±0.75%	±1.1 (2.0) or 0.4%	
	-270(-454) to 0 (32)	±2.2 (4.0) or ±2%	-----	



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