



EMPOWERING PROCESS MANAGEMENT



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



FIBER GLASS INSULATION is ideal for general application requiring moderate abrasion, moisture resistance & high temperature resistance. Designed for high temperature application in metal industries, forgings, aluminum, plastic processing equipments etc.

APPLICATIONS

- Manufacturing of Temperature Sensors
- Furnaces & Ovens
- Plastic Processing Equipments
- Heat Treatment
- Thermocouple Circuits
- Various Processing Industries

PRODUCT FEATURES

- 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 Multi stranded from 12 AWG to 24 AWG , Refer table for type of cable
Core Insulation	Braided Fiber Glass with color tracers & high temperature impregnation *
Construction	Parallel Conductors
No. of Pair	1
Outer Sheath	Braided Fiber Glass with color tracers 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 200 °C. Option for supply of wire without impregnation for continuous operation at elevated temperature.
- 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 coding: IEC 60584 – 3, BS 1843, DIN 13711, JIS C 1610 – 1981, NFC 42334 as per requirement
- R & S extension wires are also manufactured with copper as positive and different nickel alloys respective for R & S.
- B Type extension wire is manufactured with Copper as positive & negative for transition below 100 °C



ELTEC CABLES & INSTRUMENTS

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TYPE OF CABLE	Wire Size AWG	Type of Wire	Type K	Type J	Type T	Type N	Type E
Individual Core & Overall Jacket of FIBER GLASS BRAIDED - FF 	7 * 32	Stranded	Kt-7*32 FF	Jt-7*32FF	Tt-7*32FF	Nt-7*32FF	Et-7*32FF
	24	Solid	Kt-24 FF	Jt-24FF	Tt-24FF		
	22	Solid	Kt-22 FF	Jt-22FF			
	20	Solid	Kt-20 FF	Jt-20FF			
	18	Solid	Kt-18 FF	Jt-18FF			
	16	Solid	Kt-16 FF	Jt-16FF			
	14	Solid	Kt-14 FF	Jt-14FF			
	12	Solid	Kt-12 FF	Jt-12FF			
Individual Core & Overall Jacket of FIBER GLASS BRAID with SS Metal Over Braid – FFS 	7 * 32	Stranded	Kt-7*32 FFS	Jt-7*32FFS	Tt-7*32FFS	Nt-7*32FFS	Et-7*32FF
	24	Solid	Kt-24 FFS	Jt-24FFS	Tt-24FFS		
	22	Solid	Kt-22 FF S	Jt-22FFS			
	20	Solid	Kt-20 FFS	Jt-20FFS			
	18	Solid	Kt-18 FFS	Jt-18FFS			
	16	Solid	Kt-16 FFS	Jt-16FFS			
	14	Solid	Kt-14 FFS	Jt-14FFS			
	12	Solid	Kt-12 FFS	Jt-12FFS			

- Duplex construction are suffix with D i.e. KtD_____
- Thermocouple Original, Extension & Compensating Grade Wire are suffix with t, x & c respectively i.e. Kt, Kx & Kc

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

Tolerance-Reference Junction 0°C (32 °F)

Thermocouple Designation	Temperature Range °C (°F)	Standard Grade Limits ° C (°F) whichever is greater	Special Grade Limits °C(°F) Whichever is greater
Thermocouple Grade Wires			
Jt	0 (32) to 750 (1382)	±2.2 (4.0) or ±0.75%	±1.1 (2.0) or 0.4%
Kt	0 (32) to 1250 (2282) -200 (-328) to 0 (32)	±2.2 (4.0) or ±0.75% ±2.2 (4.0) or ±2%	±1.1 (2.0) or 0.4% -----
Tt	0 (32) to 350 (662) -200 (-328) to 0 (32)	±1.0 (1.8) or ±0.75% ±1.0 (1.8) or ±1.5%	±0.5 (1.0) or 0.4% -----
Et	0 (32) to 900 (1652) -200 (-328) to 0 (32)	±1.7 (3.0) or ±0.5% ±1.7 (3.0) or ±1%	±1.0 (1.8) or 0.4% -----
Nt	0 (32) to 1300 (2372) -270(-454) to 0 (32)	±2.2 (4.0) or ±0.75% ±2.2 (4.0) or ±2%	±1.1 (2.0) or 0.4% -----
Extension / Compensating Grade Wires			
Jx	0 (32) to 200 (400)	±2.2 (4.0)	
Kx or Kc	0 (32) to 200 (400)	±2.2 (4.0)	
Tx	32 (0) to 100 (212)	±1.0 (1.8)	
Ex	0 (32) to 200 (400)	±1.7 (3.1)	
Nx or Nc	0 (32) to 200 (400)	±2.2 (4.0)	
Rc or Sc or Bc	0 (32) to 200 (400)	±5.0 (9.0)	

- 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.



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