



EMPOWERING PROCESS MANAGEMENT



SILICONE RUBBER Insulated Thermocouple Wire Max. Temp. Up to 180 °C:



Silicone Rubber Insulation provides superior flexibility, excellent softness, resistant to moisture and can be immersed in water for a longer period of time without much effect on its electrical & mechanical properties. Wide operating temperature range from -55 °C to 180 °C

APPLICATIONS	PRODUCT FEATURES
<ul style="list-style-type: none"> • Manufacturing of Temperature Sensors • Aerospace & Cryogenics • FDA Approved Products • Chemicals & Pharmaceuticals • Laboratories • Food Processing Plants • Packaging 	<ul style="list-style-type: none"> • Continuous use up to 260 °C • Single exposure up to 400 °C • Inert to most chemical & fluids • Unaffected by lubricants • Flame Retardant • Immune to agene fungus & water absorption • Resistant to gamma radiation


PRODUCT SPECIFICATIONS:	
Conductor	Solid or Multi stranded from 12 AWG to 24 AWG , Refer table for type of cable
Core Insulation	Fused PTFE tape
Construction	Parallel Conductors
No. of Pair	1
Outer Sheath	Fused PTFE tape
Color Coding	Confirms to ANSI MC 96.1 (International Color Code Available)

- 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



ELTEC CABLES & INSTRUMENTS

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

TYPE OF CABLE	Wire Size AWG	Type of Wire	Type K	Type J	Type T	Type N	Type E
Individual Core & Jacket of Extruded SILICONE RUBBER 	7 * 32	Stranded	Kt-7*32 SR	Jt-7*32SR	Tt-7*32SR	Nt-7*32SR	Et-7*32SR
	24	Solid	Kt-24 SR	Jt-24SR	Tt-24SR		
	22	Solid	Kt-22 SR	Jt-22SR			
	20	Solid	Kt-20 SR	Jt-20SR			
	18	Solid	Kt-18 SR	Jt-18SR			
	16	Solid	Kt-16 SR	Jt-16SR			
	14	Solid	Kt-14 SR	Jt-14SR			
	12	Solid	Kt-12 SR	Jt-12SR			

- 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)	±2.2 (4.0) or ±0.75%	±1.1 (2.0) or 0.4%
Tt	-200 (-328) to 0 (32)	±2.2 (4.0) or ±2%	-----
	0 (32) to 350 (662)	±1.0 (1.8) or ±0.75%	±0.5 (1.0) or 0.4%
Et	-200 (-328) to 0 (32)	±1.0 (1.8) or ±1.5%	-----
	0 (32) to 900 (1652)	±1.7 (3.0) or ±0.5%	±1.0 (1.8) or 0.4%
Nt	-200 (-328) to 0 (32)	±1.7 (3.0) or ±1%	-----
	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%	-----
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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