eltec

EMPOWERING PROCESS MANAGEMENT

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

N 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
Nt / Nx	*Nickel Chromium Silicon – Ni Cr Si*	*Nickel Chromium – Ni Cr*

APPLICATIONS

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

PRODUCT FEATURES

- *Continuous use up to 400 °C*
- *Single exposure up to 600 °C*
- *Good Thermal Durability & Strength*
- *Flame Retardant*
- *Superior Abrasion Resistance*
- *Better flexibility*

PRODUCT SPECIFICTIONS:

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 (2 Core)*
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

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			
Nt	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			
Nx	32 (0) to 200 (212)	±1.7 (3.1)	

ELTEC CABLES & INSTRUMENTS

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