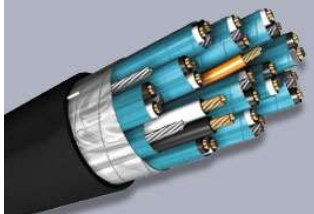


Individual & Overall Shield PVC Insulated Multi Pair THERMOCOUPLE EXTENSION CABLES



In an industrial environment with electrolytic processes and nearby large motors, generators, transformers, induction heating, relay controls, power lines or control wire induced voltage and electrical noise, PVC Insulated twisted individual & overall shielded thermocouple pairs is an ideal selection. Twisted pairs & aluminum Mylar shield provides protection against cross talk, static & magnetic noise in thermocouple circuits.

APPLICATIONS	PRODUCT FEATURES
<ul style="list-style-type: none"> • Utilities & Industrial Plants • Construction of New plants • Petrochemicals & Oil Refineries • Testing Rig Set Up • Thermocouple Circuits 	<ul style="list-style-type: none"> • Temperature Range: 90 °C & Rated 300 V • Flame Retardant • Moisture, Chemical & Solvent Resistant • Excellent Die Electric Strength • 100% shield contact for noise reduction

PRODUCT SPECIFICATIONS	
Conductor	Solid or stranded thermocouple extension grade wires from 12 AWG to 22 AWG (2.44mm to 0.63mm) as per ASTM E 230 & ANSI 96.1
Core Insulation	Flame Retardant PVC with nominal thickness of 0.40mm
No. of Pair	2, 4, 6, 8, 16, 20, 24, 36 and more
Individual Pair Shield	0.05mm Aluminum Mylar tape with 125% coverage
Drain Wire	22 AWG - 7 strands Annealed Tinned Copper wire
Communication Wire	22 AWG – 7 strands Tinned Copper wire Orange color PVC Insulated (4 Pair & larger)
Pair Laying	Shielded Pairs with communication wire are laid suitably and binned with polyester tape
Cable Shield	0.05 mm Aluminum Mylar /polyester tape, 25% overlap
Drain Wire	22 AWG - 7 strands of Annealed Tinned Copper Wire.
Outer Sheath	Flame Retardant PVC
Color Coding	Confirms to ANSI MC 96.1 (International Color Code Available), Refer Table

- PVC, HR PVC, FRLS, LSOH, LSZH, HPER etc. Insulation & Outer Jacket as per clients specifications
- Optional Color coding: IEC 60584 – 3, BS 1843, DIN 13711, JIS C 1610 – 1981, NFC 42334 as per requirement

ELECTRICAL CHARACTERISTICS	
IR @ 20°C, 500V, C/C	> 100 mΩ/Km
IR @ 20°C, 500V, C/S	> 50 mΩ/Km
HV - Test, C/C	1.2 Kv, 1.0 Min.
HV - Test, C/S	1. Kv, 1.0 Min.



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



EMPOWERING PROCESS MANAGEMENT



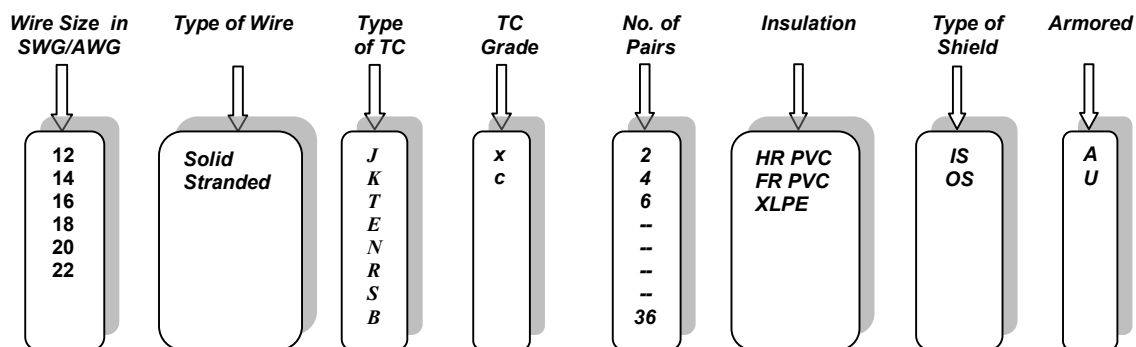
TYPE OF TC	Metal Alloy +ve leg	Metal Alloy -ve leg	Measuring Temp. Range	Thermal Tolerance
J	Fe	Cu Ni	0 °C to 750 °C	Standard Tolerance as per ASTM E 230 - ANSI MC 96.1
K	Ni Cr	Ni Al	0 °C to 1000 °C	Standard Tolerance as per ASTM E 230 - ANSI MC 96.1
T	Cu	Cu Ni	0 °C to 350 °C	Standard Tolerance as per ASTM E 230 - ANSI MC 96.1
E	Ni Cr	Cu Ni	0 °C to 800 °C	Standard Tolerance as per ASTM E 230 - ANSI MC 96.1
N	Ni Cr Si	Ni Si	0 °C to 1000 °C	Standard Tolerance as per ASTM E 230 - ANSI MC 96.1
R or S	Cu	Cu Ni	0 °C to 1600 °C	N.A.
B	Cu	Cu	600 °C to 1700 °C	N.A. Only for Transition above 100 °C

- Initial Calibration tolerance as per IEC 584 & ANSI MC 96.1 up to 200 °C
- 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.
- Copper & Copper Nickel alloys can be used for R & S Type Extension Wire
- Copper Vs Copper can be used for B Type Extension Wire for transition below 100 °C

Initial Calibration Tolerances as per ASTM E230 and ANSI MC96.1 for EXTENSION GRADE WIRES
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
Jx	0 (32) to 200 (400)	±2.2 (4.0)	-----
Kx or Kc	0 (32) to 200 (400)	±2.2 (4.0)	-----
Tx	0 (32) to 100 (212)	±1.0 (1.8)	-----
Nx or Nc	0 (32) to 200 (400)	±2.2 (4.0)	-----
Ex	0 (32) to 200 (400)	±1.7 (3.1)	-----
Sc or Rc	0 (32) to 200 (400)	±5.0 (9.0)	-----
Bc	0 (32) to 100 (212)	±4.2 (7.6)	-----

ORDERING CODE:



Example: 16 AWG SOLID Kx 4P FR PVC IS OS U - 16 AWG SOLID K TYPE EXTENSION GRADE FR PVC INSULATED & SHEATHED INDIVIDUAL & OVER ALL SHIELD UNARMORD THERMOCOUPLE CABLE



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Tel.: +91 281 2480400 URL : www.thermocouplewire.co.in

E-mail : eltecin@gmail.com | sales@thermocouplewire.co.in