Thermocouple Extension/Compensating Cables

Construction : Single or Multiple Pairs

Voltage Grade : Up to 1100 V

Cable Code : Kx, Kx (A), Tx, Jx, Ex, Sx / Rx, Bx, Nx, Ux, Wx

Range : 16 AWG / 18 AWG / 20 AWG up to 48 Pair

Primary Insulation : General purpose PVC / Heat Resistant PVC / PE / XLPE / PTFE / FEP / PFA / Silicone Rubber / Fibre Glass

Screening : Individual and overall with following options -
- Aluminum Mylar / Copper Tape with Tinned Copper Drain Wire
- Braided with Bare or Tinned or Nickel Plated or Silver Plated Copper

Inner Sheath : PVC / HRPVC / FRPVC / FRLS PVC / ZHFR / LSF / PTFE / PFA / FEP / Fibre Glass

Armouring : GI Round Wire / Flat Strip or Wire Braiding and SS Wire Braiding

Outer Sheath : PVC / HRPVC / FRPVC / FRLSPVC / ZHFR / LSF/ PTFE / Fibre Glass / PFA / FEP

Standards : ANSI: MC-96.1, IEC-584-3, DIN, BS IEC-60332-1, IEC-60332-3-22, 23, 24, IS-8784

Note: Other conductor sizes and insulation materials on request

Technical Data

CABLE CODE		Kx	Kx (A)	Tx	Jx	Ex	Sx / Rx	N
CABLE TYPE		EXT.	COMP	EXT.	EXT.	EXT.	COMP	EXT.
Conductor	+Ve leg	Chromel	Copper	Copper	Iron	Chromel	Copper	Nicrosil
	-Ve leg	Alumel	Constantan	Constantan	Constantan	Constantan	Copper Alloy	Nisil
Suitable for Thermocouple Type		**Kx**	**Kx**	**Tx**	**Jx**	**Ex**	**Sx / Rx**	**N**
Conductor Combination		Chromel Alumel	Copper Alumel	Copper Constantan	Iron Constantan	Chromel Constantan	Platinum 10/13% Rhodium Platinum	Nicrosil / Nisil
Temperature range of measuring junction °C		0 to +1100	(0°C to +80°C) ☆	-185 to +300	+20 to +700	0 to +800	0 to + 1550 0 to + 1600	- 200 to + 1300
Applicable standards for ouput of Thermocouple conductors		BS 1843, ANSI / MC 96.1 type K, DIN 43710, NFC 42-324, JIS C 1610, IEC 60584-3, IS 8784/1987	Used for interconnecting Type K thermocouples ☆	BS 1843, ANSI / MC 96.1 type K, DIN 43710, NFC 42-324, JIS C 1610, IEC 60584-3, IS 8784/1987	BS 1843, ANSI / MC 96.1 type K, DIN 43710, NFC 42-324, JIS C 1610, IEC 60584-3, IS 8784/1987	BS 1843, ANSI / MC 96.1 type K, DIN 43710, NFC 42-324, JIS C 1610, IEC 60584-3, IS 8784/1987	BS 1843, ANSI / MC 96.1 type K, DIN 43710, NFC 42-324, JIS C 1610, IEC 60584-3, IS 8784/1987	BS 1843, ASTM E 230, IEC 60584-3
COLOUR CODING (Revised)	BS 1843							
	ANSI MC 96.1/ASTM E230							
	DIN 43710		-					No standard
	NFC 42-324							No standard
	JISC 1610							No standard
	IEC 60584-3		-					
	IS 8784							No standard
Approximate generated EMF change per deg. °C µV/°C at	**100° C**	42	☆	46	54	68	8/8	30
	500° C	43	☆	—	56	81	9/10	38

NOTES : ☆ Used for interconnecting Type 'K' thermocouples and instrumentation as an alternative to type 'K' material. Only used where the interconnection temperature is in the range 0° C to + 80° C

We can also offer NX, UX and WX Cables ◐ Kx (A) - also known as Vx