


























THERMOCOUPLE CONDUCTOR COMBINATIONS NATIONAL SPECIFICATIONS

Thermocouple Conductor Combination Type	International Colour Code to IEC 584.3.1989 BS EN 60584.3	British to BS 1843	Tolerance Class				Measuring Junction Temperature
			For intrinsically safe circuits	1	2	Cable Temperature Range °C	
K			$\pm 60\mu\text{V}$ ($\pm 1.5^\circ\text{C}$)	$\pm 100\mu\text{V}$ ($\pm 2.5^\circ\text{C}$)	-25°C to $+200^\circ\text{C}$	900°C	
				$\pm 100\mu\text{V}$ ($\pm 2.5^\circ\text{C}$)	0°C to $+150^\circ\text{C}$	900°C	
					$\pm 100\mu\text{V}$ ($\pm 2.5^\circ\text{C}$)	900°C	
T			$\pm 30\mu\text{V}$ ($\pm 0.5^\circ\text{C}$)	$\pm 60\mu\text{V}$ ($\pm 1.0^\circ\text{C}$)	-25°C to $+100^\circ\text{C}$	300°C	
			$\pm 85\mu\text{V}$ ($\pm 1.5^\circ\text{C}$)	$\pm 140\mu\text{V}$ ($\pm 2.5^\circ\text{C}$)	-25°C to $+200^\circ\text{C}$	500°C	
N			$\pm 60\mu\text{V}$ ($\pm 1.5^\circ\text{C}$)	$\pm 100\mu\text{V}$ ($\pm 2.5^\circ\text{C}$)	-25°C to $+200^\circ\text{C}$	900°C	
				$\pm 100\mu\text{V}$ ($\pm 2.5^\circ\text{C}$)	0°C to $+150^\circ\text{C}$	900°C	

Tolerance values to IEC 584.3.1989/BS 4937 part 30.1993 (soon to be replaced by BS EN 60584.3) for extension and compensating cables when used at temperatures within the cable temperature range column shown below.

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	For intrinsically safe circuits				1	2	Cable Temperature Range °C	Measuring Junction Temperature
E				$\pm 120 \mu\text{V} (+1.5^\circ\text{C})$	$\pm 200 \mu\text{V} (\pm 2.5^\circ\text{C})$	-25°C to $+200^\circ\text{C}$	500°C	
					$\pm 30 \mu\text{V} (\pm 2.5^\circ\text{C})$	0°C to $+100^\circ\text{C}$	1000°C	
R					$\pm 60 \mu\text{V} (\pm 5.0^\circ\text{C})$	0°C to $+200^\circ\text{C}$	1000°C	
					$\pm 30 \mu\text{V} (\pm 2.5^\circ\text{C})$	0°C to $+100^\circ\text{C}$	1000°C	
S					$\pm 60 \mu\text{V} (\pm 5.0^\circ\text{C})$	0°C to $+200^\circ\text{C}$	1000°C	
					$\pm 60 \mu\text{V} (\pm 5.0^\circ\text{C})$	0°C to $+200^\circ\text{C}$	1000°C	