

## INTERNATIONAL COLOR CODES

The British standard colour codes for thermocouple cables BS1843:1952 has been replaced by BS4937 part 30:1993 (IEC584-3:1989 modified). This change came into effect in January 1994 and BS1843 was phased out in December 1998.

**NEW**

IEC584-3: 1989, mod  
BS4937. Part 30. 1993

**CODES CONDUCTORS**

(Operating ranges vary with wire size and application)  
+/-

**EXISTING COLOUR CODES**

Extension and compensating Leads

		EXISTING COLOUR CODES				
		BRITISH BS1843: 1952	AMERICAN ANSI/MC 96.1	GERMAN DIN		
<b>E</b>	<b>NICKEL CHROMIUM/ CONSTANTAN</b> -200°C to 850°C (Nickel Chromium/Copper-Nickel, Chromel/Constantan, TI/Advance, NICr/Constantan)					<b>EX</b>
<b>J</b>	<b>IRON*/CONSTANTAN</b> 0 to 850°C (Iron/Copper-Nickel, Fe/Konst, Iron/Advance, Fe/Constantan, IC)					<b>JX</b>
<b>K</b>	<b>NICKEL CHROMIUM/ NICKLE* ALUMINIUM</b> -200°C to 1100°C (NC/NA, Chromel/Alumel C/A, TI/T2, NICr/NI, NIAL)					<b>KX</b>
<b>N</b>	<b>NICROSIL/NISIL</b> -200°C to 1300°C					<b>NX</b>
<b>T</b>	<b>COPPER/CONSTANTAN</b> -200°C to 400°C (Copper/Copper-Nickel, Cu/Con, Copper/Advance)					<b>TX</b>
<b>RCA SCA</b>	<b>COPPER/COPPER-NICKEL</b> Compensating for Platinum 10% or 13% Rhodium/Platinum (Codes S and R respectively, over Range 0-50°C) (Copper/Cupronic, Cu/CuNi, Copper/No. 11 Alloy)					<b>RCA SCA</b>
<b>KCB</b>	<b>COPPER/CONSTANTAN (LOW NICKLE)</b> (Cu/Constantan) Compensating for "K" over Range 0-80°C (CU/Constantan)					<b>KCB</b>
<b>*Magnetic ( ) Alternative and Trade Names</b>			<b>For thermocouple connectors, body colors are as outer sheath colors above</b>	<b>For thermocouple connectors, body colors are as outer sheath colors above</b>		<b>For thermocouple connectors, body colors are as outer sheath colors above</b>






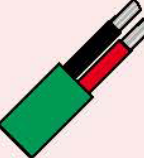
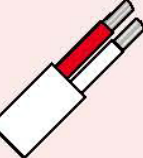

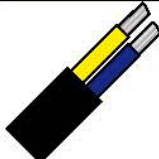

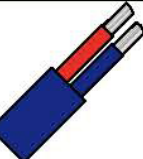

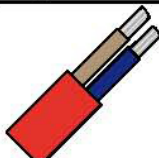
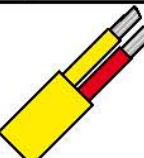
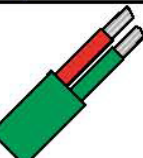
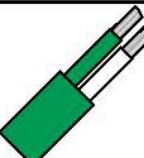
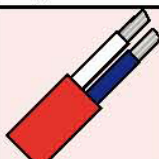
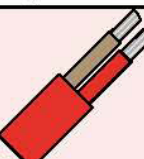
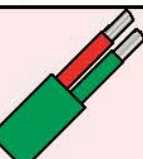
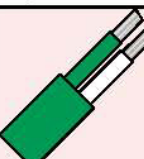
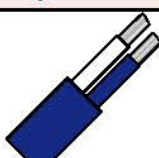
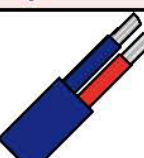
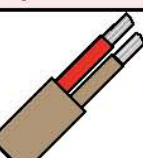
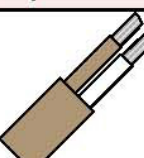
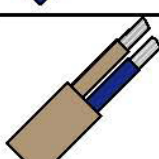
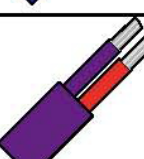
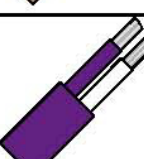
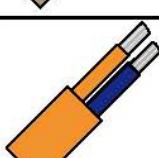
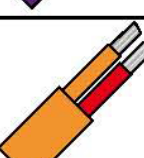
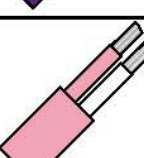
### EXTENSION/COMPENSATING CABLES

Extension cables are designated by the suffix X (eg JX) and compensating cables by the letter C (eg NC). Different alloys may be used in certain circumstances and these are distinguished by additional letters (eg KCB)

### THERMOCOUPLE CONNECTORS

New color coded connectors are marked IEC and have a grey body with a clearly visible color coded area (with exceptions of the fascia/panels sockets). This is to prevent any confusion regarding the use of the new and old color coded connectors

## Thermocouple Colour Codes

Type	Conductors +/-	BS 1843 	ANSI MC96.1 	DIN 43714 	IEC 584 
<b>U</b> Compensating for types R & S	+ Copper - Copper/Nickel				
<b>J</b>	+ Iron - Constantan				
<b>K</b>	+ Nickel Chromium - Nickel Aluminium				
<b>Vx</b> Compensating for type K	+ Copper - Constantan				
<b>T</b>	+ Copper - Constantan				
<b>E</b>	+ Nickel Chromium - Constantan				
<b>N</b>	+ Nicrosil - Nisil				

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[www.elektroluks.mk](http://www.elektroluks.mk)  
+389 (0)47 203 330  
+389 (0)2 3298 130

