

International Colour Codes for Thermocouple Compensating Cables

CODES	CONDUCTORS (Operating ranges vary with wire size and application) +/-	EXISTING COLOUR CODES Extension and compensating Leads			NEW IEC584-3: 1989, Mod BS4937. Part 30. 1993	
		BRITISH BS1843:1952	AMERICAN ANSI/MC 96.1	GERMAN DIN		
E	NICKEL CHROMIUM/CONSTANTAN -200°C to 850°C (Nickel Chromium/Copper-Nickel, Chrome/Constantan, Ti/Advance, NiCr/Constantan)					EX
J	IRON*/CONSTANTAN 0 to 850°C (Iron/Copper-Nickel, Fe/Konst, Iron/Advance, Fe/Constantan, IC)					JX
K	NICKEL CHROMIUM/ NICKLE* ALUMINIUM -200°C to 1100°C (NiCr/NA, Chrome/Alumel C/A, Ti/T2, NiCr/Ni, NiAl)					KX
N	NICROSIL/NISIL -200°C to 1300°C					NX
T	COPPER/CONSTANTAN -200°C to 400°C (Copper/Copper-Nickel, Cu/Con, Copper/Advance)					TX
RCA SCA	COPPER/COPPER-NICKEL 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)					RCA SCA
KCB	COPPER/CONSTANTAN (LOW NICKLE) (Cu/Constantan) Compensating for "K" over Range 0-80°C (Cu/Constantan)					KCB
*Magnetic () Alternative and Trade Names			For thermocouple connectors, body colours are as outer sheath colours above	For thermocouple connectors, body colours are as outer sheath colours above		
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 colour coded connectors are marked IEC and have a grey body with a clearly visible colour coded area (with exceptions of the fascia/panels sockets). This is to prevent any confusion regarding the use of the new and old colour coded connectors						

Reference