



Huge stock and spare parts in coverage for our clients' order

TC Series RTD & Thermocouples

Sensor Head























Terminal Blocks







N-3P-C



N-3P-C-PT



N-4P-C



N-6P-C



C-2P-C



C-3P-C



C 3D C



S-3P-C



S-3P-



D-3P-C



D-6P-C



C-4P-C



Connector

ANSI colour code



K Yellow NiCr NiSi



J Black Fe CuNi



E Violet NiCr CuNi



T Blue Cu CuNi

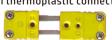


N Orange NiCrSi NiSi

Standard thermoplastic connector



Mini thermoplastic connector



Standard ceramic connector

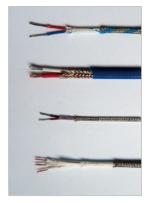


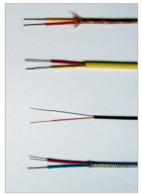
Mini ceramic connector





Thermocouple Cable





Features introduction

• Cable construction

Conductor: original thermocouple alloy material, is made up of solid wires or strand wires.

Insulation layers:

 Fiberglass [Ambient temperature range 0..300°C] PVC [Ambient temperature range 0..105°C] Teflon [Ambient temperature range 0..350°C]

Jacket layer material: fiberglass, PVC, Teflon, Silicone rubber

- Conforms to IEC584 standard
- Cables with special material or special dimensions or special artworks, welcome to contact our sales for further discusion.

• Silicone rubber [Ambient temperature range 0..180°C]

0	8.25	23	0.574	
1	7.35	24	0.511	
2	6.54	25	0.455	
3	5.83	26	0.404	
4	5.19	27	0.361	
5	4.62	28	0.320	
6	4.11	29	0.287	
7	3.67	30	0.254	
8	3.26	31	0.226	
9	2.91	32	0.203	
10	2.59	33	0.180	
11	2.30	34	0.160	
12	2.05	35	0.142	
13	1.83	36	0.127	
14	1.63	37	0.114	
15	1.45	38	0.102	
16	1.29	39	0.089	
17	1.15	40	0.079	
18	1.02	41	0.071	
19	0.912	42	0.064	
20	0.813	43	0.056	
21	0.724	44 0.051		
22	0.643			

Comparison AWG standard & metric Standard AWG Code Ø in mm AWG Code Ø in mm

Thermocouple cable colour code standard

Thermo	Colour code standard ocouple	ANSI	DIN	BS	NFC	JIS	IEC IEC
K	+NICRO -NIAL	+ -	+	+ -	+	+	+
J	+IRON -CONSTANTAN	+	+	+	+	+ -	+ -
Е	+NICRO -CONSTANTAN	+	+	+	+	+	+
Т	+COPPER -CONSTANTAN	+	+	+	+	+	+
N	+NICROSIL -NISIL	+		+			+
S	+COPPER -CUPRONIC	+ -	+	+ -	+	+	+

Process Connection







TC Series Thermocouples and RTDs





TC10 Series

Thermocouples & RTDs with Weatherproof Terminal Head

- · Aluminium terminal head, other materials available on request
- Integral terminal block wiring or with transmitter available Sensors with fixed lengths, spring loaded or flexible armor
- Single or dual J, K, E, T, N, R, S and B thermocouples or RTDs



TC20 Series

Thermocouples & RTDs with Hazardous Location Terminal Head

- Aluminium terminal head, epoxy-coated or SS316 heads
- Class 1, Division 1, Groups B, C and D
- Integral terminal block wiring or transmitters available
- Single or dual J, K, E, T and N thermocouples or variety of RTDs



TC30 Series

Thermocouples & RTDs with Sheath and stripped or terminated end

- · Variety of wires and cables available
- 316 Stainless steel standard and other sheath material on request
- Stainless steel armor, with/without waterproof PVC or Teflon coating
- Terminated stripped ends or connectors, plugs and crimped terminals
- Compression fitting or Weld-pads process connection • Single or dual J, K, E, T and N thermocouples or variety of RTDs



Integrated dual Thermometer with Transmitter output

- One reading for both analog and temperature transmitter
- IP65 Weather proof construction for universal application
- Accuracy class 1.0 1.6 of Full Scale
- Standard 316 stainless steel material sensor
- Design dial size 3", 4", 5" and 6"
 Standard ¼" or ½" NPT or BSP, fixed or sliding connection
- Output signal 4-20 mA, Power 10-33 VDC
- Temperature range -20°..+300°C



TC50 Series

High Temperature Ceramic Type R or S Thermocouples

- Accuracy Class 1.0
- Recrystallised alumina (Altsin) sheath with Duplex option
- Interchangeable insert
- Temperature range 0 to 1650°C
- Sheath length from 300, 500 up to 1000 mm
- Weather proof terminal head or Explosion proof housing

