THERMOCOUPLE CABLE

Customization

Customized colour option and printing of the outer sheath on request

Compensating & Extension RJ1601

Application:

Compensating or Extension Cables are used in temperature measurement to convey information from a thermocouple sensor to the measuring instrument. The conductors are made of different media to provide positive and negative cores to match the emf generated, front the sensor.

Extension wires are having same materials as of thermocouple

Approvals

RoHS ISO 9001 QUALITY ASSURANCE CE

Make up:

- Solid stranded conductor
- Conductor of required thermocouple type
  Fe/CuNi Iron constantanJx
  Nircr/Ni Cromel Alumel Kx
  PtRh/Pt Pt/RH equivalent material
  Cu/Constantan Compensating for chromel/Alumel/Vx
  Cu/Constantan Copper/Constantan Tx
- **Insulation**
  Insulation, as per use
  PVC : for temp. upto 70^0C/85^0C/105^0C
  SIL : Silicon Rubber180^0C
  FG : Fibre Glass $+200^0$C
  PTFE: Temperature -65^0C $+260^0$C
  FEP : Temperature -65^0C $+200^0$C
- **Sheathing**
  According to use of environment & temperature

Colour Codes:

	DIN 43710	IEC60584
Fe/CuNi	-ve/Sheath +ve Red	+ve/Sheath Black –ve White
Nircr/Ni	-ve/Sheath Green+ve Red	+ve/Sheath Green –ve White
PtRh/Pt	-ve/Sheath White +ve Red	+ve/Sheath Orange –ve White

Note : Outer colour codes, as per ANSIMC96.1 and IS 8784 can also be provided.

Millivolts generated for popular thermocouple cables

Type	Description	(+ve)	(-ve)	100^0C	200^0C
Kx	Crome/Alumel	Nicr	NiaI	4.10	8.13
Jx	Iron/Constantan	Iron	Constantan	5.26	-
Tx	Copper/Constantan	Copper	Constantan	4.24	9.77
Vx	Compensating for type Kx	Copper	Constantan	4.10	-
Rx/Sx	Copper/Cupronic compensating for type R/S	Copper	Curpronic	0.645	-

Technical Data:

- **Based on**
  According to DIN or IEC in
  According with class 2
- **Conductor Stranding**
  As per design
- **Minimum bending radius**
  Fixed installation 10xD min
  Fixing installation 15xD min
  Shielded Armoured 20xD min
- **Test Voltage**
  1500 V
- **Millivolt generated according to ANSI MC 96.1 and IS 8784**

ORDERING INFORMATION

Thermocouple Compensating & Extension Cable **RJ1601**

Please mail us following information at info@rjptfe.com to quote -

1. Type of thermocouple i.e. Kx, Vx, Jx, Tx, TCA etc.
2. Type of insulation as per operating temperature requirement i.e. PVC, PTFE, FEP, FRPVC, XLPE, ZHLS etc.
3. Cable construction i.e. Figure '8', flat twin, twisted, screened, no of pair etc.
4. Shielding type i.e. shielded or Unshielded, Individual and/or overall.
5. Shielding type i.e. Al-Mylar tape & drain wire or braiding.
6. Inner Sheath i.e. PVC, FRLS, FLS, FR, PTFE etc.
7. Armouring i.e. GI wire / strip or SS braiding.
8. Outer Jacket i.e. PVC FRLS, FR, PTFE, FEP, ZHLS etc.