

# THERMOCOUPLE WIRE

Kapton<sup>®</sup> insulated, colour coded; 285 °C



## Features:

- Max. temperature up to 400 °C
- Min. temperature -265 °C
- Very high abrasion resistance

## Applications:

- Nuclear industry
- Cryogenics

## Specifications:

Conductors	:solid, Class 1 or 2 thermocouple grade material
Insulation	:Kapton <sup>®</sup> fused tape with 50% min. overlap; 0,15 mm nominal; coated with 0,025 mm colour coded polyamide
Construction	:parallel conductors
Jacket	:Kapton <sup>®</sup> fused tape with 50% min. overlap; 0,15 mm nominal
Limits of error	:according to ANSI MC 96.1 and IEC-60584
Colour code	:according to ANSI MC 96.1 and IEC-60584 other colours optional

### Electrical/Physical

Insulation passes 6000 V AC spark test.

Completed construction passes a dielectric test of 5000 V DC for 1 minute (conductor-to-conductor); 0,15 mm wall breakdown strength in excess of 10 KV

Operating temperature (max.) :285 °C (400 °C for limited duration)

Operating temperature (min.) :265 °C

Flammability :self-extinguishing

Chemical resistance :excellent

Radiation resistance :10<sup>9</sup> rad.

Bend radius test (min.) :4 x o.d

## Dimensions and weight:

(nominal values)

### Conductor size

AWG	Ø mm	outer mm	weight/km
20	0,8	1,5 x 2,6	11,5 kg
28	0,32	1,0 x 1,6	4,1 kg

## Ordering code:

### Calibration

Iron-constantan  
Chromel-alumel  
Copper-constantan

### 20 AWG

K/K-20-JJ ANSI  
K/K-20-KK ANSI  
K/K-20-TT ANSI

### Stock #

### 28 AWG

K/K-28-KK ANSI  
K/K-28-TT ANSI

### Stock #

<sup>®</sup> Trademark Dupont