

# Thermocouple Extension Cable



Eland Product Group: B3K

## APPLICATION

Thermocouple extension cable is a thermocouple cable which is identified by the letter X (e.g. for type K cable KX). Extension grade wire is only used to extend a thermocouple signal from a probe back to the instrument reading the signal.

## CHARACTERISTICS

### Voltage Rating

300/500V

### Test Voltage

Dielectric test voltage: 1.0 kVAC/1' (core/core)

Dielectric test voltage: 1.0 kVAC/1' (core/screen)

### Temperature Rating

-30 to +105°C

### Minimum Bending Radius

Flexing: 8 x overall diameter

## CONSTRUCTION

### Conductor

Positive: NiCr (Chromel)

Negative: NiAl (Alumel)

### Cores

Cores numbered and twisted into pairs, polyester foil tape

### Insulation

FR PVC HT (Flame Retardant Polyvinyl Chloride)

### Individual Screen

Al/PET (Aluminium/Polyester Tape)

### Drain Wire

Tinned copper

### Collective Screen

PET (Polyester Tape)

### Drain Wire

Tinned copper

### Sheath

FR PVC HT (Flame Retardant Polyvinyl Chloride)

### Insulation Colour

Positive NiCr: ● Green, numbered

Negative NiAl: ○ White

### Sheath Colour

● Green

## STANDARDS

IEC 60584, ASTM E 230

## THE CABLE LAB<sup>®</sup>

AN ISO/IEC 17025 AND IECEE CBTL ACCREDITED FACILITY

Our world-class testing facility assures the quality and compliance of this cable through a continuous and rigorous testing regime.



## SUSTAINABILITY COMMITMENT

We are on a journey to Net Zero.

We've committed to near-term emissions reductions and a net-zero target with the Science Based Targets initiative and we're a signatory to the United Nations Global Compact Sustainable Development Goals.

Learn more about embodied carbon and our carbon emissions reduction actions, our comprehensive recycling services, and wider ESG activities for sustainable operations at: [www.elandcables.com/company/about-us/esg-sustainability](http://www.elandcables.com/company/about-us/esg-sustainability)



## REGULATORY COMPLIANCE

This cable meets the requirements of the Low Voltage Directive 2014/35/EU, the RoHS Directive 2015/65/EU and Reach Directive EC 1907/2006. RoHS compliance has been tested and confirmed by The Cable Lab<sup>®</sup>.





## DIMENSIONS

ELAND PART NO.	NO. OF PAIRS	NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	NOMINAL THICKNESS OF INSULATION mm	NOMINAL THICKNESS OF OUTER SHEATH mm	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
B3K02P000005	2P	0.5	0.55	1	9.70	93.2
B3K04P000005	4P	0.5	0.55	1	10.80	137.1
B3K08P000005	8P	0.5	0.55	1.2	14.30	250.5

## ELECTRICAL CHARACTERISTICS

NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	MAXIMUM RESISTANCE OF INSULATION AT 20°C Mohms/km	MAXIMUM RESISTANCE OF CONDUCTOR AT 20°C ohms/km
0.5	20	1970