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®

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

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®.

DIMENSIONS

ELAND PART NO.	NO. OF PAIRS	NOMINAL CROSS SECTIONAL AREA mm²	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 mm²	MAXIMUM RESISTANCE OF INSULATION AT 20°C Mohms/km	MAXIMUM RESISTANCE OF CONDUCTOR AT 20°C ohms/km
0.5	20	1970

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