

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 kV_{ac}/1' (core/core)
Dielectric test voltage: 1.0 kV_{ac}/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

ISO/IEC 17025 LABORATORY TESTED

This product is subject to the Quality Assurance protocols of The Cable Lab®, an ISO/IEC 17025 accredited cable testing laboratory. Testing includes vertical flame, conductor resistance, tensile & elongation, and dimensional consistency, verified to published standards and approved product drawings.



8578



FS 672069



EMS 672067



OHS 672066

REGULATORY COMPLIANCE

This cable meets the requirements of the Low Voltage Directive 2014/35/EU and the RoHS Directive 2011/65/EU. RoHS compliance has been tested and confirmed by The Cable Lab® as meeting the requirements of the BSI RoHS Trusted Kitemark™.



KM 634267





DIMENSIONS

ELAND PART NO.	NO. OF PAIRS	NOMINAL CROSS SECTIONAL AREA mm ²	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 ²	MAXIMUM RESISTANCE OF INSULATION AT 20°C Mohms/km	MAXIMUM RESISTANCE OF CONDUCTOR AT 20°C ohms/km
0.5	20	1970