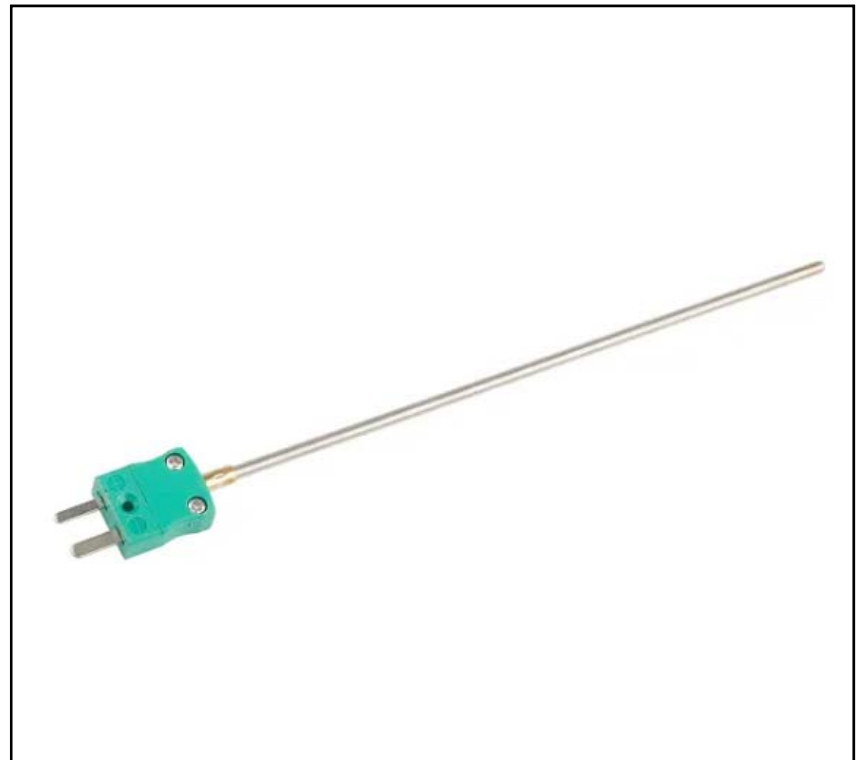


## FEATURES

- Insulated hot junction
- Mineral insulation
- Conforms to IEC standards
- 310 stainless steel probe sheath
- Miniature plug termination

# RS PRO Type K Thermocouple 150mm Length, 3mm Diameter → +1100°C

RS Stock No.: 397-1488



RS Professionally Approved Products bring to you professional quality parts across all product categories. Our product range has been tested by engineers and provides a comparable quality to the leading brands without paying a premium price.

## Product Description

From RS Pro a range of type K thermocouple temperature sensors or probes that conform to IEC standards. These thermocouple temperature probes have a durable construction and feature a 310 stainless steel mineral insulated flexible sheath that can be bent and formed to suit a wide range of applications. The thermocouple has a single element insulated junction for a reduction in electrical interference. One end of the thermocouple is terminated with a miniature flat pin plug for a quick and easy connection

## General Specifications

<b>Thermocouple Type</b>	Type K
<b>Temperature Measurement Range</b>	-40°C to 1100°C
<b>Construction</b>	Mineral insulated
<b>Measuring Junction</b>	Insulated hot junction
<b>Accuracy</b>	±1.5°C
<b>Output</b>	100°C = 4.096 mV
<b>Seebeck Coefficient</b>	41µV / °C
<b>Transmitter</b>	None
<b>Calibration Availability</b>	Yes
<b>Application</b>	heat exchangers, power stations, brick and cement kilns, heat treatment and annealing furnaces, thermostats, food thermometers, vehicle diagnostics and in laboratories

## Mechanical Specifications

<b>Probe Diameter</b>	3mm
<b>Probe Length</b>	150mm
<b>Probe Body Material</b>	Stainless Steel
<b>Process Connection</b>	Moulded 2pin Plug
<b>Insulation / Sheath Material</b>	310 stainless steel
<b>Termination Type</b>	Miniature Plug
<b>Cable Insulation</b>	Glass Fibre

## Approvals

<b>Compliance/Certifications</b>	EN61340, IEC60584
<b>Standards Met</b>	IEC



T/C Type	Conductors	Length	Termination	+Positive tail wire	-Negative tail wire code	Allied Code	RS order Code
'K'	1/0.2mm	1 metre	Mini plug	Green	White	70643600	363-0250
'K'	1/0.2mm	2 metre	Mini plug	Green	White		110-4482
'K'	1/0.2mm	5 metre	Mini plug	Green	White		123-6306
'K'	1/0.2mm	10 metre	Mini plug	Green	White		123-6307
'J'	1/0.2mm	1 metre	Mini plug	Black	White	70643599	363-0244
'J'	1/0.2mm	2 metre	Mini plug	Black	White		123-6308
'J'	1/0.2mm	5 metre	Mini plug	Black	White		123-6309
'J'	1/0.2mm	10 metre	Mini plug	Black	White		123-6310
'T'	1/0.2mm	1 metre	Mini plug	Brown	White	70643601	363-0266
'T'	1/0.2mm	2 metre	Mini plug	Brown	White		123-6311
'T'	1/0.2mm	5 metre	Mini plug	Brown	White		123-6312
'T'	1/0.2mm	10 metre	Mini plug	Brown	White		123-6313

T/C Type	Conductors	Cores	Reel Length	Allied code	RS order code
J	1/0.2mm	+Black/-White	25 metres	70657194	827-5980
J	1/0.2mm	+Black/-White	50 metres	70657195	827-5984
J	1/0.315mm	+Black/-White	25 metres	70657198	827-5993
J	1/0.315mm	+Black/-White	50 metres	70657199	827-5996
K	1/0.315mm	+Green/-White	25 metres	70657200	827-6000
K	1/0.315mm	+Green/-White	50 metres	70657205	827-6019
T	1/0.315mm	+Brown/-White	25 metres	70657208	827-6028
T	1/0.315mm	+Brown/-White	50 metres	70657206	827-6022
J	1/0.508mm	+Black/-White	25 metres	70657197	827-5990
J	1/0.508mm	+Black/-White	50 metres	70657201	827-6003
K	1/0.508mm	+Green/-White	25 metres	70657203	827-6012
K	1/0.508mm	+Green/-White	50 metres	70657204	827-6016
J	7/0.2mm	+Black/-White	25 metres	70657202	827-6006
K	7/0.2mm	+Green/-White	25 metres	70657207	827-6025
T	7/0.2mm	+Brown/-White	25 metres	70657209	827-6031
N	7/0.2mm	+Pink/-White	25 metres	70657210	827-6034

	Conductors	Cores	Jacket	Reel Length	Allied Code	RS order code
<b>Extension:</b>						
KX	7/0.2mm	+Green/-White	Green	10 metres	70657084	<b>827-5615</b>
KX	7/0.2mm	+Green/-White	Green	25 metres	70641729	<b>236-3820</b>
KX	7/0.2mm	+Green/-White	Green	50 metres	70657085	<b>827-5619</b>
KX	7/0.2mm	+Green/-White	Green	100 metres	70646156	<b>611-7889</b>
KX	7/0.2mm	+Green/-White	Green	200 metres	70657088	<b>827-5628</b>
JX	7/0.2mm	+Black/-White	Black	10 metres	70641640	<b>219-4753</b>
JX	7/0.2mm	+Black/-White	Black	25 metres	70657078	<b>827-5592</b>
JX	7/0.2mm	+Black/-White	Black	50 metres	70657079	<b>827-5596</b>
JX	7/0.2mm	+Black/-White	Black	100 metres	70641737	<b>236-3915</b>
JX	7/0.2mm	+Black/-White	Black	200 metres	70657081	<b>827-5606</b>
TX	7/0.2mm	+Brown/-White	Brown	10 metres	70641637	<b>219-4703</b>
TX	7/0.2mm	+Brown/-White	Brown	25 metres	70641734	<b>236-3870</b>
TX	7/0.2mm	+Brown/-White	Brown	50 metres	70657095	<b>827-5653</b>
TX	7/0.2mm	+Brown/-White	Brown	100 metres	70651749	<b>762-1146</b>
TX	7/0.2mm	+Brown/-White	Brown	200 metres	70657098	<b>827-5662</b>
NX	7/0.2mm	+Pink/-White	Pink	10 metres	70641635	<b>219-4668</b>
NX	7/0.2mm	+Pink/-White	Pink	25 metres	70657091	<b>827-5637</b>
NX	7/0.2mm	+Pink/-White	Pink	50 metres	70657089	<b>827-5631</b>
NX	7/0.2mm	+Pink/-White	Pink	100 metres	70657092	<b>827-5640</b>

	Conductors	Cores	Jacket	Reel Length	Allied Code	RS order code
<b>Compensating:</b>						
VX (KCB)	7/0.2mm	+Green/-White	Green	10 metres	70657082	<b>827-5609</b>
VX (KCB)	7/0.2mm	+Green/-White	Green	25 metres	70641629	<b>219-4551</b>
VX (KCB)	7/0.2mm	+Green/-White	Green	50 metres	70657080	<b>827-5603</b>
VX (KCB)	7/0.2mm	+Green/-White	Green	100 metres	70641630	<b>219-4573</b>
VX (KCB)	7/0.2mm	+Green/-White	Green	200 metres	70657083	<b>827-5612</b>
VX (KCB)	13/0.2mm	+Green/-White	Green	10 metres	70657086	<b>827-5621</b>
VX (KCB)	13/0.2mm	+Green/-White	Green	25 metres	70657087	<b>827-5625</b>
VX (KCB)	13/0.2mm	+Green/-White	Green	50 metres	70657090	<b>827-5634</b>
VX (KCB)	13/0.2mm	+Green/-White	Green	100 metres	70651750	<b>762-1152</b>
U (RCA)	7/0.2mm	+Orange/-White	Orange	10 metres	70657096	<b>827-5656</b>
U (RCA)	7/0.2mm	+Orange/-White	Orange	25 metres	70646158	<b>611-7902</b>
U (RCA)	7/0.2mm	+Orange/-White	Orange	50 metres	70657097	<b>827-5659</b>
U (RCA)	13/0.2mm	+Orange/-White	Orange	10 metres	70641641	<b>219-4769</b>
U (RCA)	13/0.2mm	+Orange/-White	Orange	25 metres	70657093	<b>827-5643</b>
U (RCA)	13/0.2mm	+Orange/-White	Orange	50 metres	70657094	<b>827-5647</b>

T/C Type	Conductors	Cores	Reel Length	Allied code	RS order code
KX	1/0.2mm	+Yellow/-Red	25 metres	70656106	<b>814-0030</b>
KX	1/0.2mm	+Yellow/-Red	50 metres	70656111	<b>814-0049</b>
KX	1/0.2mm	+Yellow/-Red	100 metres	70656109	<b>814-0042</b>
KX	7/0.2mm	+Yellow/-Red	25 metres	70656110	<b>814-0046</b>
KX	7/0.2mm	+Yellow/-Red	50 metres	70656113	<b>814-0055</b>
KX	7/0.2mm	+Yellow/-Red	100 metres	70656114	<b>814-0058</b>
KX	1/0.3mm	+Yellow/-Red	25 metres	70656104	<b>814-0024</b>
KX	1/0.3mm	+Yellow/-Red	50 metres	70656107	<b>814-0033</b>
KX	1/0.3mm	+Yellow/-Red	100 metres	70656108	<b>814-0036</b>
TX	1/0.3mm	+Blue/-Red	25 metres	70656121	<b>814-0080</b>
TX	1/0.3mm	+Blue/-Red	50 metres	70656126	<b>814-0099</b>
TX	1/0.3mm	+Blue/-Red	100 metres	70656124	<b>814-0092</b>
TX	1/0.2mm	+Blue/-Red	25 metres	70656125	<b>814-0096</b>
TX	1/0.2mm	+Blue/-Red	50 metres	70656128	<b>814-0106</b>
TX	1/0.2mm	+Blue/-Red	100 metres	70656129	<b>814-0109</b>

T/C Type	Conductors	Cores	Jacket	Reel Length	Allied code	RS order code
<b>Extension:</b>						
KX	7/0.2mm	+Yellow/-Red	Yellow	25 m	70656102	<b>814-0018</b>
KX	7/0.2mm	+Yellow/-Red	Yellow	100 m	70656105	<b>814-0027</b>
KX	7/0.2mm	+Yellow/-Red	Yellow	200 m	70656103	<b>814-0020</b>
JX	7/0.2mm	+ White/-Red	Black	25 m	70656096	<b>813-9995</b>
JX	7/0.2mm	+ White/-Red	Black	100 m	70656098	<b>814-0005</b>
JX	7/0.2mm	+ White/-Red	Black	200 m	70656099	<b>814-0008</b>
TX	7/0.2mm	+Blue/-Red	Blue	25 m	70656119	<b>814-0074</b>
TX	7/0.2mm	+Blue/-Red	Blue	100 m	70656122	<b>814-0083</b>
TX	7/0.2mm	+Blue/-Red	Blue	200 m	70656123	<b>814-0086</b>
<b>Compensating:</b>						
VX (KCB)	7/0.2mm	+Yellow/-Red	Yellow	25 m	70656127	<b>814-0103</b>
VX (KCB)	7/0.2mm	+Yellow/-Red	Yellow	100 m	70656130	<b>814-0112</b>
VX (KCB)	7/0.2mm	+Yellow/-Red	Yellow	200 m	70656131	<b>814-0115</b>