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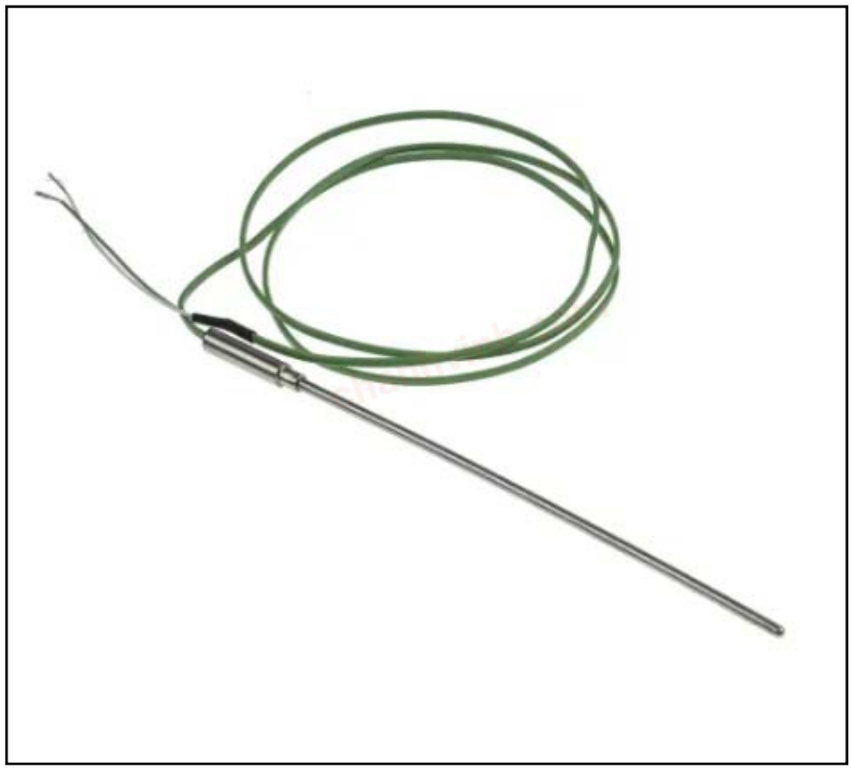
FEATURES

- IEC 584 class 1 tolerance
- Insulated hot junction
- Mineral insulation for flexibility
- Plain pot seal
- PFA insulated lead

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

RS Stock No.: 397-1264



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.

Thermocouples

Product Description

From RS Pro a range of type K thermocouple temperature sensors that conform to IEC 584 standards with class 1 tolerance for optimum accuracy. These sensors or probes have a durable construction and feature a stainless steel 310 probe sheath and a PFA insulated lead. The mineral insulated flexible probe sheath can be bent and formed to suit a wide range of applications. The thermocouple has a single element insulated hot junction for a reduction in electrical interference and a plain pot seal with a temperature rating of 200°C.

General Specifications

Thermocouple Type	Type K
Temperature Measurement Range	-40°C to 1100°C
Construction	Mineral insulated
Accuracy	±1.5°C
Seebeck Coefficient	41µV / °C
Transmitter	None
Calibration Availability	Yes
Application	heat exchangers, power stations, brick and cement kilns, heat treatment and annealing furnaces, thermostats, food thermometers

Mechanical Specifications

Probe Diameter	3mm
Probe Length	150mm
Probe Body Material	Stainless Steel
Termination Type	Cable Gland
Compensating Cable Length	1m
Cable Insulation	PFA

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Approvals

Compliance/Certifications	IEC 584 class 1, BS EN 60584
Standards Met	IEC



Thermocouples

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**

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Thermocouples

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

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

Thermocouples

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

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