FEATURES

- **Contacts made from true thermocouple alloys**

- **IEC colour coding for quick and easy identification**

- **Solid PCB pins**

- **Provision for CJC sensor**

- **Accepts polarized flat pin contacts for an accurate connection**

- **Made from rugged glass-filled thermoplastic**

- **Able to withstand a high temperature of 220°C**

RS PRO IEC Thermocouple Connector for use with Type K Thermocouple Type K, Miniature

RS Stock No.: 381-7564

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 versatile and high quality miniature PCB mount thermocouple socket connector colour coded in accordance with IEC. This female connector features solid brass PCB pins allowing direct mounting onto a board and also has provision for a CJC (Cold Junction Compensation) sensor. This thermocouple connector is ideal for connecting your thermocouple probe or wire terminals to extension or compensating cables as well as providing a quick, safe and error-free way of replacing your existing thermocouples. The thermocouple connector housing is made from a rugged glass-filled thermoplastic which is impact resistant and able to withstand high temperatures of up to 220°C. The contacts on this female connector accept flat polarised pins to ensure an accurate connection. The colour coded housing has the thermocouple type clearly indicated on the front for easy identification.
Accessories
For suitable cable clamp please see stock number 236-4104

General Specifications

Accessory Type	Thermocouple Connector
For Use With	Type K Thermocouple
Thermocouple Type	K
Maximum Temperature	220°C
Positive Contact (Alloy Type)	Nickel Chromium
Negative Contact (Alloy Type)	Nickel Alloy
Colour	Green
Applications	Miniature PCB Mounting Connector

Mechanical Specifications

Plug/Socket	Socket
Probe Diameter	1.3mm diameter pins x 7.9mm pitch

Operation Environment Specifications

Maximum Continuous Operating Temperature	220°C

Approvals

Compliance/Certifications	IEC, RoHS

Types K, J, T, E, B & Copper
(IEC Colour Code)

Identification sticker to denote calibration type: K, J, T, N, E, R/S or CU
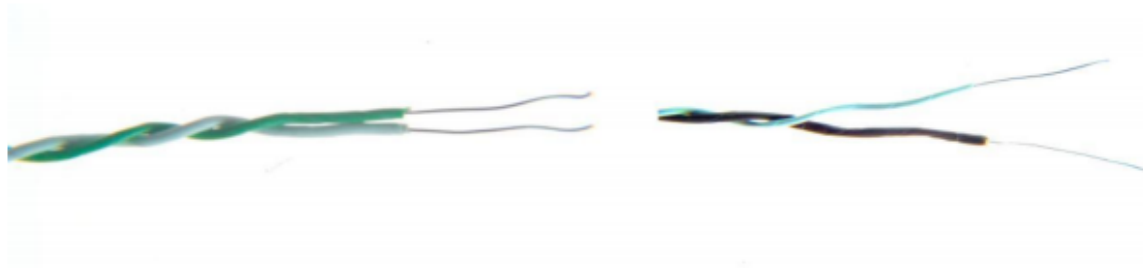
∅2.7 thru hole
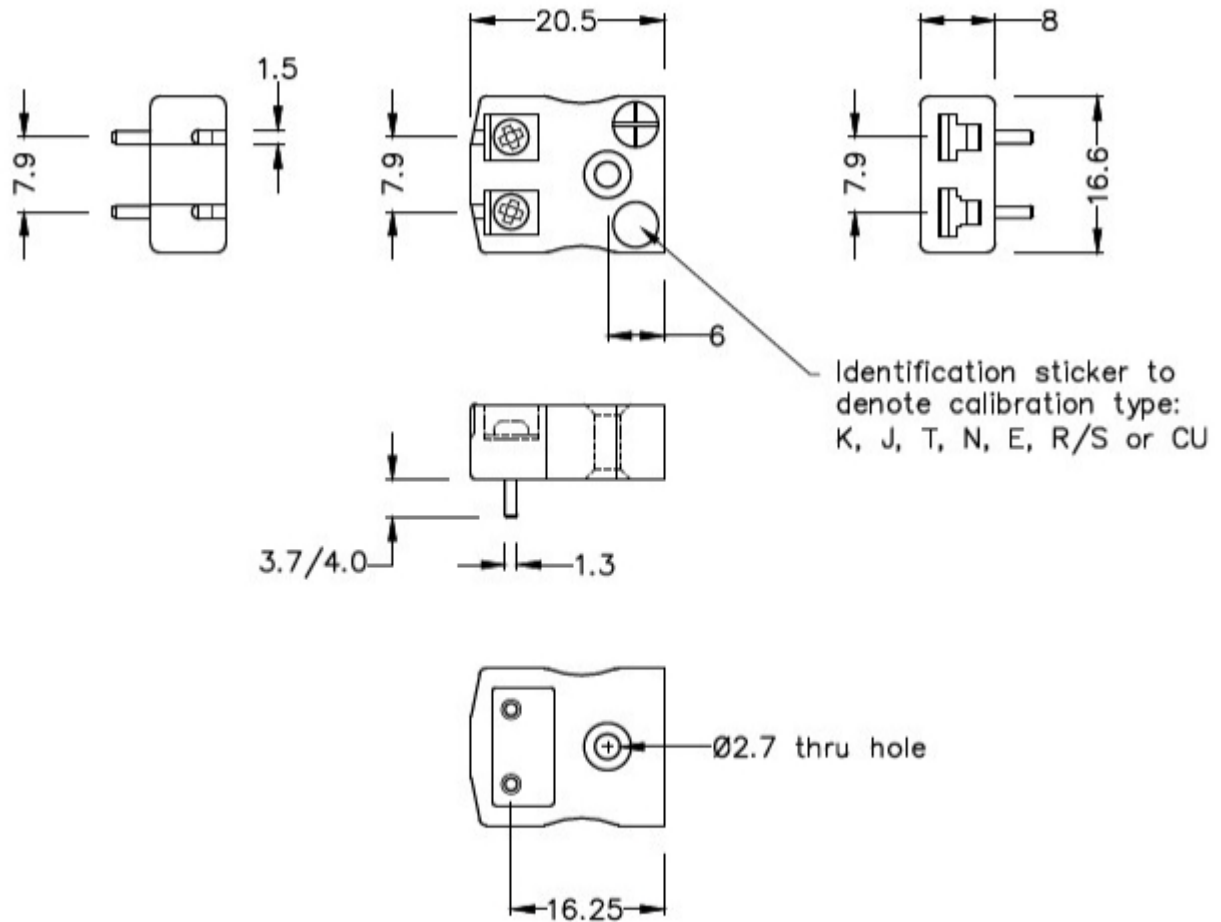
Miniature PCB Socket
(dimensions in mm)

IEC PTFE Insulated Twin Twisted Pair Thermocouple Cable

Available in Thermocouple Types K, J T & N

Type 'K'

Type 'T'

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
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**

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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**

ANSI PVC Thermocouple Extension & Compensating Cable

PVC Insulated Flat Pair (ANSI MC96.1)
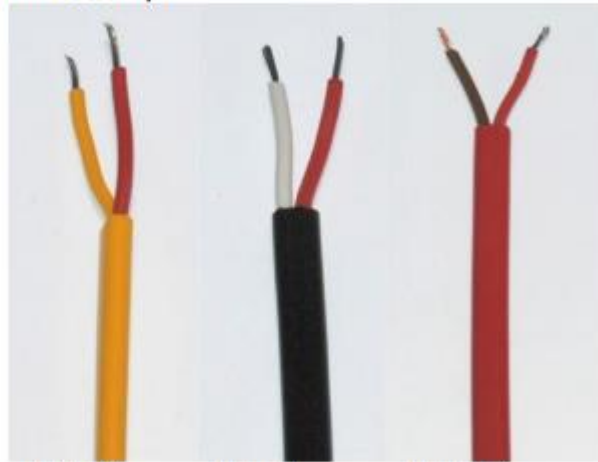
Type KX   Type JX   Type TX

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**