FEATURES

- Terminals made from true thermocouple alloys

- IEC colour coding for quick and easy identification

- Accepts polarised flat pin contacts for an accurate connection

- Made from rugged glass-filled thermoplastic

- Able to withstand a high temperature of 220°C

- For use with stranded or solid wires

- Accepts thermocouple cable up to 4mm in diameter

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

RS Stock No.: 455-9758

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 miniature in-line thermocouple socket connector which is colour coded in accordance with IEC specification. This thermocouple socket is ideal for connecting your thermocouple probe or wire terminals to extension or compensating cables. This female socket also provides a quick, safe and error-free way of replacing your existing thermocouples. The socket 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 terminals on this female connector accept polarized flat pin contacts to ensure an accurate connection. The housing is IEC colour coded with the thermocouple type clearly indicated on the front for easy identification.

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
Clamp Type	Miniature
Colour	Green
Applications	Miniature In-Line Connector

Mechanical Specifications

Connector Type	Thermocouple Socket Connectors
Pocket Diameter	4mm
Thermocouple Cable Diameter	4mm

Operation Environment Specifications

Maximum Continuous Operating Temperature	220°C

Approvals

Compliance/Certifications	IEC, RoHS

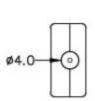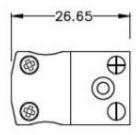| T/C Type	Colour Code (IEC)	+Positive Contact (alloy type)	-Negative Contact (alloy type)	Allied Code	RS order
K	Green	+Nickel Chromium	-Nickel Alloy	70644390	455-9758
J	Black	+Iron	-Copper Nickel	70644386	455-9708
T	Brown	+Copper	-Copper Nickel	70644401	455-9916
E	Violet	+Nickel Chromium	-Copper Nickel	70652491	774-7197
N	Pink	+Nickel/Chro/Silicon	-Nickel Silicon	70644395	455-9821
R/S	Orange	+Copper	-Copper Alloy	70644397	455-9859
B	Grey	+Copper	-Copper	70652490	774-7194
Copper	White	+Copper	-Copper	70644383	455-9663

Accessories

- Cable clamp for miniature connectors –
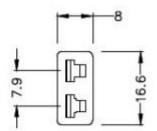 Allied code   70641746
  RS order number   **236-4104**

- Rubber grommet for miniature connectors –
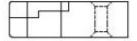 Allied code   70646835
  RS order number   **666-7365** (25 per pack)

Miniature in-line Socket
(dimensions in mm)

Accessories

1 Way Fascia Panel	Allied: 70641749 **RS: 236-4148**	
2 Way Fascia Panel	Allied: 70643877 **RS: 397-1731**	
3 Way Fascia Panel	Allied: 70643878 **RS: 397-1753** (shown opposite)	
4 Way Fascia Panel	Allied: 70643879 **RS: 397-1769**	
6 Way Fascia Panel	Allied: 70641750 **RS: 236-4154**	

MINIATURE FASCIA SOCET

(dimensions in mm)

			Arnite	TOLERANCE X ±0.25mm X.X ±0.10mm X.XX ±0.05mm		LABFACILITY LTD UNITS 5&7, BLOCK "K" SOUTHERN CROSS INDUSTRIAL ESTATE BOGNOR REGIS WEST SUSSEX PO22 9SD	TITLE Miniature Fascia Socket	DRAWN SD	CHECKED	DATE 26.05.16
			FINISH Clean & free of pips & burring				PART NUMBER IM/AM/JM/FMTC-*-FF	DRAWING NO	TBC	
A	NEW DRAWING	SD	26.05.16	SCALE NTS			CUST. PART NO			
ISSUE	MODIFICATION	DRWN	APP	DATE	THIS DRAWING REMAINS THE PROPERTY OF LABFACILITY LIMITED AND MAY NOT BE REPRODUCED WITHOUT OUR PERMISSION			SHEET 1 OF 1 SHEETS		

ORDERING INFORMATION

MODEL	Allied Code	RS ORDER NUMBER
FINE WIRE WELDER	70825788	363-0351
Spare Carbon Electrodes (x5) for 1.1mm 250V Fine Wire Welder RS143/0816	70656473	814-0184

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**

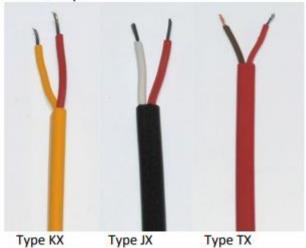|	Conductors	Cores	Jacket	Reel Length	Allied Code	RS order code
Extension:						
KX	7/0.2mm	+Green/-White	Green	10 metres	70657084	**827-5615**
KX	7/0.2mm	+Green/-White	Green	25 metres	70641729	**236-3820**
KX	7/0.2mm	+Green/-White	Green	50 metres	70657085	**827-5619**
KX	7/0.2mm	+Green/-White	Green	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**
RS143/0816						

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**