CONNECTORS & CABLES FOR THERMOCOUPLES & RESISTANCE THERMOMETERS

Europe's leading manufacturer of connectors and supplier of cables for thermocouples and resistance thermometers.

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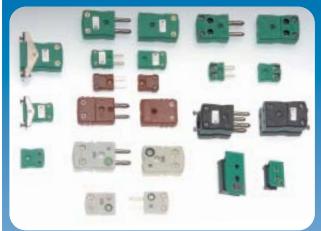
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THERMOCOUPLE & RESISTANCE THERMOMETER CONNECTORS

THERMOCOUPLE & RESISTANCE THERMOMETER CONNECTORS

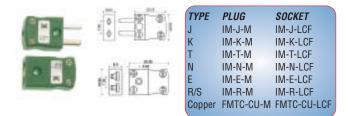


- Designed and manufactured under strict ISO EN 9000:2000 disciplines
- Full compliance to IEC & CENELEC specifications
- ANSI, DIN, JIS colour coding available on request
- Contacts made from thermocouple material or copper
- Calibration type J,K,T,N,E,R & S
- Uncompensated connectors B (grey) & Cu (white) for use additionally with resistance thermometers
- Terminal cable clamping plates
- Polarised pins guarantee correct polarity
- Compatibility with other makes of connectors
- 3 pin versions available
- 4 pin miniature suitable for thermocouples and resistance thermometers
- Wide range of accessories
- Custom labelling on request
- Unassembled line connectors for ease of termination available in packs of 100

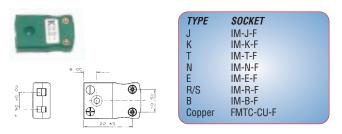
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MINIATURE PLUGS & SOCKETS Types J,K,T,N,E,R/S & Copper

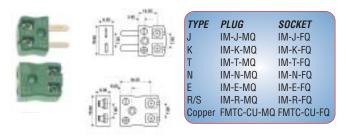


- Range of miniature thermocouple connectors with flat pins having terminal and contact material to suit the thermocouple type
- Socket ideal for general purpose use
- All contacts are polarized to ensure correct connection
- Connectors will accept thermocouple cable up to 4mm diameter
- Cable clamps available for securing cable to plugs and sockets
- Uncompensated copper connectors also available
- Maximum continuous operating temperature 220°C
 Wide range of accessories available, see page 5
- MINIATURE TWIN CONTACT SOCKET Types J,K,T,N,E,R/S & Copper



- Range of miniature thermocouple sockets with "Twin Contacts" designed for applications requiring duty cycle use
- All contacts are polarized to ensure correct connection
- Connectors will accept thermocouple cable up to 4mm diameter
- Cable clamps available for securing cable to socket
- Uncompensated copper connectors also available
- Maximum continuous operating temperature 220°C
- Wide range of accessories available, see page 5

MINIATURE QUICK WIRE PLUGS & SOCKETS Types J,K,T,N,E,R/S & Copper



- These quick connect versions allow rapid termination
- Quick, easy "jab-in" connection, just push in wire and tighten screw
- Will accept wide range of wire sizes
- Maximum continuous operating temperature 220°C
- Compatible with the other miniature plugs and sockets











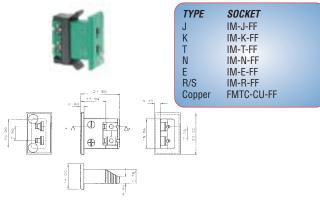






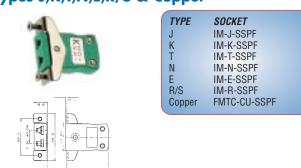
THERMOCOUPLE & RESISTANCE THERMOMETER CONNECTORS

MINIATURE RECTANGLAR PANEL MOUNTING FASCIA SOCKETS Types J,K,T,N,E,R/S & Copper



- Clip mounting
- Quick, simple fixing to panel, see page 5
- Maximum continuous operating temperature 120°C

MINIATURE PANEL SOCKET WITH MOUNTING BRACKET Types J,K,T,N,E,R/S & Copper



- Miniature socket fitted with stainless steel bracket
- Fully enclosed terminals with cable port seal
- Quick simple fixing to panel
- Maximum continuous operating temperature 220°C

MINIATURE QUICK WIRE PANEL SOCKET WITH MOUNTING BRACKET Types J,K,T,N,E,R/S & Copper

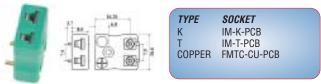
JKTNERC



YPE	IM-J-SSPFQ IM-K-SSPFQ IM-T-SSPFQ
/S opper	IM-N-SSPFQ IM-E-SSPFQ IM-R-SSPFQ FMTC-CU-SSPFQ

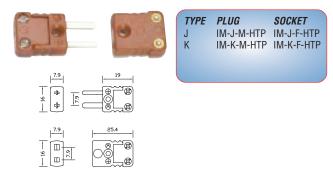
- Miniature socket with quick wire facility fitted with stainless steel mounting bracket
- Quick, easy "jab-in" connection, just push in wire and tighten screw
- These quick connect versions allow rapid termination
- Maximum continuous operating temperature 220°C

MINIATURE PCB MOUNTING SOCKET TYPES K,T & Copper



- Versatile, high quality, circuit board mounting miniature socket
- Specially designed for PCBs
- Solid pins for direct PCB mounting
- Provision for CJC sensor
- Compatible with flow soldering assembly
- Maximum continuous operating temperature 220°C

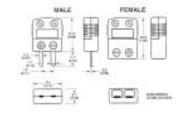
MINIATURE HIGH TEMPERATURE, PLASTIC PLUGS AND SOCKETS Types J & K



- All connectors have type identification on body
- High temperature polyester bodies for use up to 425°C
- All contacts are polarized to ensure correct connection
- For R,S & B compensating alloys limit the maximum usable temperature to 260°C

MINIATURE VERY HIGH TEMPERATURE, CERAMIC PLUGS & SOCKETS Types J,K & N





- Heavy duty ceramic body for use up to 560°C
- All connectors are coloured white with type identification on body
- For types R,S & B compensating alloys limit the maximum usable
- temperature to 260°C

CABLE TIDY THERMOCOUPLE WITH FITTED MINIATURE PLUG



A complete, precision fine wire, high sensitivity thermocouple See page 9

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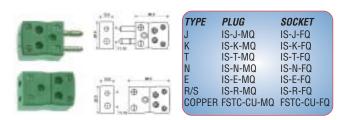
THERMOCOUPLE & RESISTANCE THERMOMETER CONNECTORS

STANDARD PLUGS & SOCKETS Types J,K,T,N,E,R/S & copper

	ТҮРЕ	PLUG	SOCKET
	J	IS-J-M	IS-J-F
	К	IS-K-M	IS-K-F
	Т	IS-T-M	IS-T-F
	Ν	IS-N-M	IS-N-F
10- @ •	E	IS-E-M	IS-E-F
	R/S	IS-R-M	IS-R-F
Tel GTO	COPPER	FSTC-CU-M	FSTC-CU-F

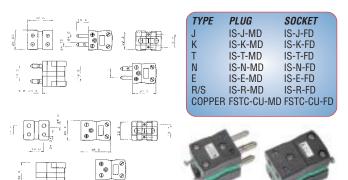
- A range of standard sized connectors with round pins to suit the thermocouple type being used
- Intended for use in more industrial applications
- Plugs fitted with solid thermocouple pins
- All contacts are polarized to ensure correct connection
- Cable clamps available for securing cable
- Maximum continuous operating temperature 220°C
- Wide range of accessories available, see page 5

STANDARD QUICK WIRE PLUGS & SOCKETS Types J,K,T,N,E,R/S & copper



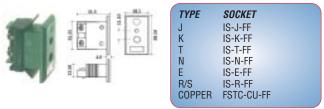
- Physically compatible with alternative standard, round pin connectors
- These quick connect versions allow rapid termination
- Quick easy "jab-in" connection, just push in wire and tighten screw
- Plugs fitted with solid thermocouple pins
- Suits wide range of wire sizes
- Maximum continuous operating temperature 220°C

STANDARD DUPLEX PLUGS AND SOCKETS Types J,K,T,N,E,R/S & copper



- Duplex (Two channel) connectors using thermocouple material contacts and pins
- Bodies supplied coloured black with spacer in IEC thermocouple colour coding
- Plugs fitted with solid thermocouple pins
- Rugged glass filled polyester bodies
- All contacts are polarized to ensure correct connection
- Maximum continuous operating temperature 220°C
- Wide range of accessories available, see page 5

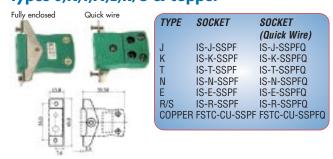
STANDARD RECTANGULAR PANEL MOUNTING FASCIA SOCKETS Types J,K,T,N,E,R/S & copper



Quick, simple fixing to panel, see page 5

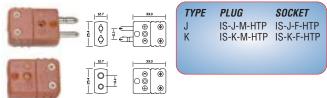
- Clip mounting
- Maximum continuous operating temperature 120°C

STANDARD PANEL OR QUICK WIRE SOCKET WITH MOUNTING BRACKET Types J,K,T,N,E,R/S & copper



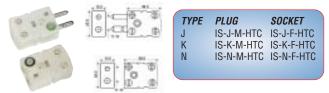
- Standard sockets with fully enclosed terminals and cable port seal, fitted with stainless steel bracket
- Standard quick wire sockets fitted with stainless steel bracket
- Maximum continuous operating temperature 220°C

STANDARD HIGH TEMPERATURE PLASTIC PLUGS AND SOCKETS Types J & K



- High temperature polyester bodies for use up to 425°C
- All contacts are polarised to ensure correct connection
- For R,S & B compensating alloys limit the maximum usable temperature to 260°C
- Hollow pins in plug

STANDARD VERY HIGH TEMPERATURE CERAMIC PLUGS & SOCKETS Types J,K & N



- Heavy duty ceramic body for use up to 560°C
- All connectors supplied coloured white with coloured dot on body
- For types R,S & Cu compensating alloys limit the maximum usable temperature to 260°C

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CONNECTOR ACCESSORIES

PLUG & SOCKET CRIMP ON BRASS PROBE SUPPORTS, MINIATURE & STANDARD



To suit 1.5mm & 3.0mm (Blank

fittings available for other sizes)

SIZE Miniature Standard 0.5mm CA-160 1.0mm CA-161 CA-171 1.5mm CA-162 CA-172 2.0mm POA CA-176 CA-163 CA-173 3.0mm CA-175 4.5mm 6.0mm CA-174 Blank CA-033 CA-105

PLUG & SOCKET BRAZE ON BRASS PROBE SUPPORTS, STANDARD

 A	SIZE 1.5mm 3.0mm	Standard CA-062 CA-064
C. Ber		

To suit 1.5mm & 3.0mm

PLUG & SOCKET COMPRESSION CABLE CLAMP, STANDARD





PLUG & SOCKET EXTERNAL CABLE CLAMPS MINIATURE AND STANDARD





Standard CA-077

PLUG & SOCKET EXTERNAL CABLE CLAMP, DUPLEX









To suit 3.0mm, 4.5mm & 6.0mm

PLUG & SOCKET CABLE STRAIN RELIEF WASHER, MINIATURE & STANDARD



	CA-060	CA-061
Supplied ir	n packs of 1	00

Material: Silicone rubber

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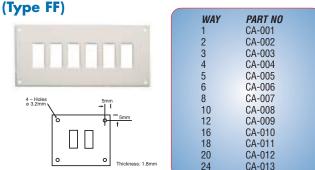








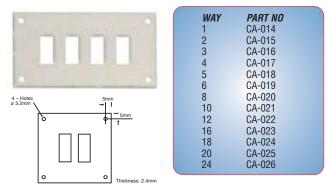
PANELS FOR MINIATURE FASCIA SOCKETS



Formula for dimension:

Length = $(N \times 15) + 25mm$ (N= Number of ways per row) Height = 45mm (single row), 75mm (Double row) Up to 12 ways in a single row, 16 to 24 ways in two rows

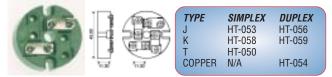
PANELS FOR STANDARD FASCIA SOCKETS (Type FF)



Formula for dimensions:

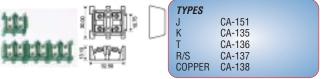
Length = (Nx19) + 31mm (N = number of ways per row) Height = 66mm (single row), 111mm (Double row) Up to 12 ways in a single row, 16 to 24 ways in two rows

TERMINAL BLOCKS FOR IN-HEAD MOUNTING Types J,K,T & copper



- Colour coded terminal blocks are for in-head mounting
- Connections made from thermocouple material •
- Maximum continuous operating temperature 220°C
- Available as Simplex or Duplex

BARRIER TERMINAL BLOCKS Types J,K,T,R/S & copper



- Colour coded barrier terminal blocks
- Supplied in single interlocking pairs
- Connections in thermocouple material
 - Maximum continuous operating temperature 220°C

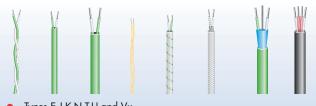
Cu 🖉







THERMOCOUPLE & RESISTANCE THERMOMETER CABLES



• Types E,J,K,N,T,U and Vx

LABFACIL

- Wide range of insulations & configurations
- Colour coded to IEC 584-3
- Alternative colours to BS1843, ANSI, DIN, JIS available
- Large stockholding

EXTENSION v COMPENSATING CABLE

Extension cable is designated X (e.g. KX for type K); compensating cable has a C designation (e.g. KC for Vx, type K) and consists of Vx and U types. Extension cable has a temperature vs e.m.f. relationship to an appropriate standard over the complete temperature range. It can, therefore, be used for producing a thermocouple junction and for joining thermocouples to their measuring instruments. It is limited in temperature only by the rating of its insulation.

Compensating cable is of different composition to extension cable but has a similar temperature v e.m.f. relationship over a limited range, and **should only be used for joining thermocouples to their measuring instruments**. It can only be used in limited ambient temperature, generally not higher than 80°C.

SELECTING YOUR CABLES

Guide to Cable Insulation and Coverings

Which insulation Material?	usable temperature range	Application Notes
PVC	-10°C to 105°C	Good general purpose insulation for "light" environments. Waterproof and very flexible.
PFA (extruded)	-75°C to 250°C	Resistant to oils, acids other adverse agents and fluids. Good mechanical strength and flexibility. PTFE better for steam/elevated pressure environments
PTFE (taped & wrapped)	-75°C to 250/300°C	Resistant to oils, acids other adverse agents and fluids. Good mechanical strength and flexibility.
Glassfibre (varnished)	-60°C to 350/400°C	Good temperature range but will not prevent ingress of fluids. Fairly flexible but does not provide good mechanical protection.
High temperature glass fibre	-60°C to 700°C	Will withstand temperature up to 700°C but will not prevent ingress of fluids. Fairly flexible, not good protection against physical disturbance.
Ceramic Fibre	0 to 1000°C	Will withstand high temperature, up to 1000°C. Will not protect against fluids or physical disturbance.
Glassfibre (varnished) stainless steel overbraid	-60°C to 350/400°C	Good resistance to physical disturbance and high temperature (up to 400°C). Will not prevent ingress of fluids.

Screened or unscreened?

With long cable runs, the cable may need to be screened and earthed at one end (at the instrument) to minimise noise pick-up (interference) on the measuring circuit. Alternative types of screened cable construction are available and these include the use of copper or mylar screening. Twisted pair configurations are offered and these can incorporate screening as required.

Single or multi-strand?

The choice is mainly determined by the application (e.g. termination considerations and internal diameter of associated sheath). Generally, single strand wires are used for hot junctions, and multi-strand or thicker single strand for extensions of the thermocouple. The greater the effective conductor diameter, the lower the value of thermocouple loop resistance, an important consideration with long cable runs.

All the above information is detailed in the Labfacility Temperature Handbook, available on request via our website.

Types J,K,T,N,Vx,E & U

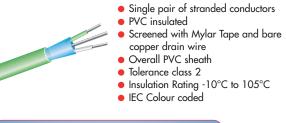


PVC INSULATED, FLAT PAIR

- Single pair of solid or stranded conductors
 PVC insulated
- Laid flat side by side & PVC sheathed
- Tolerance class 2
- Insulation Rating -10°C to 105°C
- IEC colour coded

Т/С Туре	Size (mm)	IEC PART No.
Type J	7/0.2	WJ-200
Type J	13/0.2	-
Type K	7/0.2	WK-150
Type K	13/0.2	WK-151
Type K	23/0.2	WK-152
Type T	7/0.2	WT-200
Type T	13/0.2	WT-201
Type T	23/0.2	-
Type N	7/0.2	WN-100
Type N	13/0.2	-
Type N	23/0.2	-
Type Vx	7/0.2	WV-100
Type Vx	13/0.2	WV-101
Type Vx	23/0.2	WV-103
Type U	7/0.2	WU-099
Type U	13/0.2	WU-100
Lengths of 10	0, 25, 50 & 100m	

PVC INSULATED, MYLAR SCREENED Types J,K,T,N & Vx



T/C Type	Size (mm)	IEC PART No.
Type J	7/0.2	WJ-241
Type K	7/0.2	WK-359
Туре Т	7/0.2	WT-202
Type N	7/0.2	WN-160
Type Vx	7/0.2	WV-102
Lengths of 1	0, 25, 50 & 100m	

PFA/PTFE INSULATED, FLAT PAIR Types J,K,T & N



- Single pair of solid or stranded conductors
- PFA or PTFE insulated
- Laid flat side by side
- PFA or PTFE Overall sheathed
- Tolerance Class 1
- Insulation Rating -75°C to 260°C
- IEC Colour coded

PFA

PTFE

Т/С Туре	Size (mm)	IEC PART No.
Type J	7/0.2	WJ-260
Type K	1/0.315	WK-300
Type K	7/0.2	WK-302
Type T	1/0.315	WT-328
Туре Т	1/0.508	WT-145
Type T	7/0.2	WT-330
Lengths of	f 25 & 100m	

Т/С Туре	Size (mm)	IEC PART No.
Type J	7/0.2	WJ-248
Type K	7/0.2	XS-751
Type T	7/0.2	WT-305
Type N	7/0.2	WN-121
Lengths of	f 25 & 100m	
	Type J Type K Type T Type N	Туре Ј 7/0.2 Туре К 7/0.2 Туре Т 7/0.2

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Type J













THERMOCOUPLE & RESISTANCE ERMOMETER CABLES

PFA/PTFE INSULATED, TWIN TWISTED PAIR Types J,K,T & N

- Single pair of solid or stranded conductors
- PFA or PTFE Insulated
- Tolerance Class 1
- Insulation Rating -75°C to 260°C
- IEC Colour coded

PFA

PTFE

T/C Type	Size (mm)	IEC PART	T/C Type	Size
Туре J Туре J Туре K Туре K Туре K Туре K Туре K Туре K Туре T Туре T Туре T Туре N Туре N	1/0.2 1/0.508 7/0.2 1/0.315 1/0.315 1/0.508 7/0.2 10/0.12 1/0.2 1/0.315 7/0.2 1/0.2 1/0.2 1/0.2 1/0.2 1/0.2	No. WJ-244 WJ-243 WK-200 WK-201 WK-202 WK-303 XS-699 WT-300 WT-300 WT-300 WT-303 WN-120 WN-140	Type K Type K Type K Type T Type T Type T Lengths c	1/0.2 7/0.2 1/0.3 1/0.5 1/0.3 1/0.2

(mm) IEC PART

		NU.
Type K	1/0.2	WK-203
Type K	7/0.2	XS-752
Туре К	1/0.3	WK-204
Type T	1/0.508	WT-302
Type T	1/0.3	WT-306
Type T	1/0.2	WT-304
Lengths	of 25 & 100r	n

PTFE INSULATED, FINE GAUGE WIRE Types J,K & T

- 15m spools of single strand Tolerance Class 2
 - Insulation Rating -75°C to 260°C

Single wire PTFE Insulated

• IEC & ANSI (C96) Colour coded

Т/С Туре	Size (mm)	ANSI PART No.
Type J Iron	1/0.08	WJ-100
Type J Con	1/0.08	WJ-101
Type K Ni Cr	1/0.08	WK-100
Type K Ni Al	1/0.08	WK-101
Type T Cu	1/0.08	WT-100
Type T CON	1/0.08	WT-101
Lengths of 15m	ı	

GLASSFIBRE INSULATED, FLAT PAIR Types J,K,T,N & E

- Single pair of solid or stranded conductors
- Glassfibre Insulated
- Laid flat side by side & glassfibre braided overall
- Impregnated with silicone varnish
- Tolerance Class 2
- Insulation Rating -60°C to +350/400°C IEC Colour coded

T/C Type	Size (mm)	IEC PART No.
Type J	1/0.315	WJ-230
Type J	7/0.2	WJ-231
Type K	1/0.2	WK-363
Type K	1/0.315	WK-351
Type K	1/0.508	WK-352
Type K	7/0.2	WK-353
Type T	1/0.315	WT-356
Type T	7/0.2	WT-340
Type N	1/0.315	WN-130
Lengths of 10), 25 & 100m	

GLASSFIBRE INSULATED, FLAT PAIR, STAINLESS STEEL OVERBRAID Types J,K,T & N



Insulation Rating -60°C to +350/400°C IEC Colour coded

7/0.2	WJ-240
	VV0 240
7/0.2	WJ-242
7/0.2	WK-360
7/0.2	WN-150
7/0.2	WT-357
	7/0.2 7/0.2

COPPER CABLES FOR USE WITH RESISTANCE THERMOMETER SENSORS

- Copper cables for use with platinum Resistance Thermometers & most process signals
 - 1,2,3,4 & 6 cores available
 - Screened and Unscreened
 - Overall Stainless Steel Braided Available
 - Core insulation colours red/white

Insulation & Construction	Overall Colour	Number of Cores	Number of Strands/Size mm	Part Number
PVC Screened	BLACK	4	7/ 0.20	WC-006
PTFE Single	RED	1	7/ 0.20	WC-046
PTFE Single	WHITE	1	7/ 0.20	WC-047
PTFE Twisted Pair	RED/WHITE	2	7/ 0.20	WC-044
PTFE Twisted	RED/WHITE	4	7/ 0.20	WC-043
PTFE Twisted	RED/WHITE	4	7/ 0.16	WC-045
PTFE Screened	BLACK	3	7/ 0.20	WC-004
PTFE Screened	BLACK	4	7/ 0.20	WC-014
PTFE Screened	BLACK	4	7/ 0.10	WC-042
PTFE Screened	BLACK	6	7/ 0.20	WC-029
F/G + SSOB	(BRAID)	2	7/ 0.20	WC-016
F/G + SSOB	(BRAID)	3	7/ 0.20	WC-023
F/G + SSOB	(BRAID)	4 2	7/ 0.20	WC-015
TEFZEL	BLACK	2	19/ 0.16	WC-012
Silicone Rubber	BROWN	2	7/ 0.20	WC-040
Silicone Rubber	BROWN	4	7/ 0.20	WC-041
PFA Screened	BLACK	4	7/0.20	WC-052
PFA Screened	BLACK	3	7/0.20	WC-053

POLYURETHANE EXTENDING, COILED Types K & T



- Excellent coil retention Single pair of stranded
- conductors
- Polyurethane insulated
- **Tolerance Class 2**
- Insulation rating -25°C to +125°C
- IEC colour coded
- Other thermocouple types available

Available unterminated or with fitted miniature or standard plug &/or socket

Many other cables available - details on request

www.labfacility.co.uk



TA CALL













THERMOCOUPLE & RESISTANCE **IERMOMETER CABLE PRODUCTS**

L60+ THERMOCOUPLE WIRE AND FINE WIRE WELDER

- Designed for producing thermocouple junctions
- Suitable for wires up to 1.1mm diameter
- Argon gas shield facility
- Can join wires to each other or metal surfaces •
- Includes footswitch for convenient operation •
- Comes with 1 electrode fitted & 1 spare .
- 110/230Vac Power supply •



Codes

Welder

Pkt 5 spare electrodes IL-015

IL-070

EXPOSED WELDED TIP THERMOCOUPLES



Also known as naked bead, fine-wire & exposed junction thermocouples

Welded tip, exposed junction, fast response thermocouples in types J,K &T

Specifications Sensor Type

Operating Temperature

Thermocouple type J,K or T to IEC 60584. Exposed welded junction PFA/PTFE insulated, 250°C. Fibreglass insulation, 350°C Glassfibre (silicone varnished) or PFA/PTFE Bare wire tails

Specifications

Insulation

Termination

Glassfibre					
Insulated	Type J	Туре К	Туре Т		
Wire diameter	1/0.315mm	1/0.315mm	1/0.315mm		
Overall diameter	1.5mm	1.5mm	1.5mm		
Temperature range	-50°C to +350°C	-50°C to +350°C	-50°C to +350°C		
Positive leg	Iron	Nickel chromium	Copper		
Negative leg	Constantan	Nickel aluminium	Constantan		
PFA/PTFE Insulated					
Wire diameter		1/02mm	1/02mm		
Overall diameter	-	1.3mm	1.3mm		
Temperature range	-	-50°C to +250°C	-50°C to 250°C		
Positive leg	-	Nickel Chromium	Copper		
Negative leg	-	Nickel aluminium	Constantan		

Welded tip thermocouple codes				
Glassfibre Insulated	Code			
Type J, 2m	Z3-J-2			
Type K, 1m	Z3-K-1			
Type K, 2m	Z3-K-2			
Type T, 2m	Z3-T-2			
PFA/PTFE Insulated				
Type K, 1m	Z2-K-1			
Type K, 2m	Z2-K-2			
Type T, 1m	Z2-T-1			
Type T, 2m	Z2-T-2			

EXPOSED, WELDED TIP THERMOCOUPLES WITH FITTED MINI-PLUGS PFA/PTFE



Types J,K & T, PFA/PTFE insulated thermocouple wire with welded junction and fitted miniature plug

Specifications

Sensor type	Thermocouple type J,K or T to IEC 60584. Exposed, Welded junction.
Tip temperature Rating	-75°C to 250°C (limited by PFA/PTFE insulation properties)
Wire type	Twin, twist pair, PFA/PTFE insulated over 1/0.2mm conductors
Termination	Colour coded miniature plug
Dimensione 9 C	- 4

Dimensions & Codes				
Туре	Code	Туре	Code	
Type J x 1m	Z2-J-1-MP	Type J x 2m	Z2-J-2-MP	
Type K x 1m	Z2-K-1-MP	Type K x 2m	Z2-K-2-MP	
Type T x 1m	Z2-T-1-MP	Type T x 2m	Z2-T-2-MP	

EXPOSED, WELDED TIP THERMOCOUPLE WITH FITTED MINI-PLUGS, GLASSFIBRE

welded junction.



Types J & K, Glassfibre insulated thermocouple wire with welded junction and fitted miniature plug

Thermocouple type J or K to IEC60584. Exposed,

Specifications

Sensor Type

Wire type

Termination

-50°C to +350°C (limited by glassfibre insulation Tip temperature Rating properties) Flat pair, silicone varnished glassfibre

insulated over 1/0.315mm conductors Colour coded miniature plug

Type R

Dimension & Codes Туре Code Code Туре Type J x 1m Z3-J-1-MP Type J x 2m Z3-J-2-MP Type K x 1m Z3-K-1-MP Z3-K-2-MP Type K x 2m

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Tvpe J













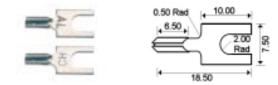
THERMOCOUPLE & RESISTANCE THERMOMETER CABLE PRODUCTS

CABLE TIDY THERMOCOUPLE WITH FITTED MINIATURE PLUG



- A complete, precision fine wire, high sensitivity thermocouple with a fitted miniature connector
- Quick and easy integral storage of the thermocouple
- Type K & T thermocouples, 1 & 2m lengths
- Class 1 wire for high accuracy
- PFA/PTFE insulated wire, 0.2 & 0.315mm conductors
- Rated 220°C continuous
- Ideal & convenient for scientific and industrial test & measurement

THERMOCOUPLE SPADE TERMINALS Types J,K,T,R/S & copper



ТҮРЕ	POSITIVE	NEGATIVE
J	TST-IR	TST-CO
К	TST-CH	TST-AL
Т	TST-CP	TST-CO
R/S	TST-II	TST-II
COPPER	TST-CP	TST-CP

These crimp-on spade terminals use compatible thermocouple material, with the identifying code stamped on, and are available in nickelchromium, nickel-aluminium, iron, constantan, copper and copper-nickel. They will accommodate wire sizes between 0.5 and 1mm diameter (25-19 SWG, area 0.2 to 0.65mm2), and will fit the terminal barrier strips.

Note: Copper and copper Nickel (Alloy 11) are used as compensating materials for Platinum, Platinum/Rhodium, types R & S.

SOLDER FOR TYPE K THERMOCOUPLE WIRE

•	Alloy 450	Tin /	Lead	Silver
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• 0.5kg / 90mtrs

Availability subject to future legislation

Code WX-004

LABFACILITY TEMPERATURE HANDBOOK

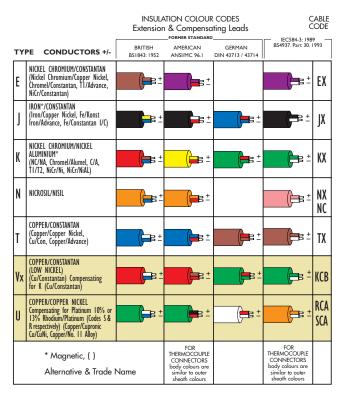


The Labfacility Temperature Handbook provides comprehensive data on thermocouple wire and cables, and thermocouple and PRT sensors. Temperature measurement and control techniques are also explained. **Can be requested via our website www.labfacility.co.uk**

> **Code** IL-001

COLOUR CODES

THERMOCOUPLE CONNECTORS, EXTENSION AND COMPENSATING WIRES AND CABLES



The British Standard Colour Code for Thermocouple Cables, BS1843: 1952 is superseded by BS4937 PART 30 1993 (=IEC 584-3 1989) Additional identification as to whether a thermocouple cable type is extension or compensating is indicated in the example which follows; however, please note that a letter A or B after the C for Compensating refers to the Cable Temperature Range in accordance with the table of Tolerance Values set out with this standard.



THERMOCOUPLE WIRE TOLERANCES

Туре	Toleran 1	ce Class 2	Cable Temperature range	Measuring junction temperature
JX	±85µV(±1.5°C)	±140µV(±2.5°C)	-25°C to +200°C	500°C
ΤX	±30µV(±0.5°C)	± 60µV(±1.0°C)	-25°C to +100°C	300°C
EX	±120µV(±1.5°C)	±200µV(±2.5°C)	-25°C to +200°C	500°C
KX	±60µV(±1.5°C)	±100µV(±2.5°C)	-25°C to +200°C	900°C
NX	±60µV(±1.5°C)	±100µV(±2.5°C)	-25°C to +200°C	900°C
KCA	-	±100µV(±2.5°C)	0°C to +150°C	900°C
KCB	-	±100µV(±2.5°C)	0°C to +100°C	900°C
NC	-	±100µV(±2.5°C)	0°C to +150°C	900°C
RCA	-	± 30µV(±2.5°C)	0°C to +100°C	1000°C
RCB	-	±60µV(±5.0°C)	0°C to +200°C	1000°C
SCA	-	±30µV(±2.5°C)	0°C to +100°C	1000°C
SCB	-	±60µV(±5.0°C)	0°C to +200°C	1000°C
1				













PRODUCT FOCUS -LABFACILITY RANGE AT A GLANCE

EUROPE'S LARGEST RANGE OF TEMPERATURE SENSORS

- Industrial & laboratory thermocouple & PRT probes in configurations to suit any application, ranges from -200°C to 1700°C
- Custom design versions available
- Transmitter-in-head options

LABFACIL

- Pt100 elements & thermistors
- Probe fittings & accessories

THE BEST IN THERMOCOUPLE CONNECTORS

- Full range of thermocouple connectors high quality plugs and sockets in IEC 60584, ANSI, JIS, and other colours
- Comprehensive range of fittings and accessories including mounting panels

All in this brochure

WIDE RANGE OF HIGH QUALITY THERMOCOUPLE & PRT CABLES

 Extension and compensating cables – a wide range of insulation types and configurations in IEC 60584 and BS 1843 colours including PFA, PTFE, PVC and fibreglass

All in this brochure

MARKET LEADING TEMPERATURE & PROCESS INSTRUMENTATION

- Precision digital thermometers
- Multi function digital thermometers
- Calibrators
- Multi-way switches
- Transmitters
- Controllers & Indicators
- Loggers and Scanners
- Digital test Meters

EQUIPMENT & COMPONENT PARTS FOR SENSOR MANUFACTURERS

- Compact thermocouple welder and microwelder
- MI cables, stainless steel sheaths, pots and fittings
- Terminal heads & blocks

VERSATILE DRY BLOCK CALIBRATORS

 Accurate, stable portable calibrators for -10°C to 1200°C to suit industrial & scientific temperature sensors

UKAS TRACEABLE CALIBRATIONS

• Certified probe calibrations between -10°C and 1200°C

And our indispensable Temperature handbook









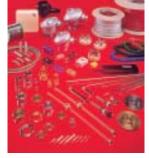
















PRODUCT FOCUS

ABFACIL

LABFACILITY – LEADERS IN TEMPERATURE MEASUREMENT



Labfacility market leading products represent more than Lablacility market reading process thirty years of design and applications

experience in industrial and laboratory, temperature and process measurement. Labfacility products and services are specified by leading UK and European distributors and manufacturers and are also exported to more than 85 countries.

Quality and Service are key elements in the continued growth of Labfacility; technical support is always freely available from our experienced technical sales teams and the company has ISO9001 accreditation.

Not only do we manufacture temperature sensors and fittings, thermocouple connectors, precision electronic thermometers and thermocouple welders, we also supply thermocouple cables, temperature transmitters, hand held digital thermometers and test instruments, dry block calibrators, loggers, scanners and temperature controllers.

LABFACILITY – MANUFACTURER **AND STOCKIST**

Applications and Industries include:

- Autoclaves
- Aerospace
- Automotive & Motorsport
- Education
- Energy
- Food
- Heat Treatment
- Medical
- Metallurgy
- Meteorology
- Metrology,
- In particular, R&D, Temperature Calibration, Laboratory and Quality Control departments.
- Plastics & Rubber
- Power Generation

Product availability & specifications may be subject to change. E&OE.

To receive our regular email newsletter, please register your details on our website





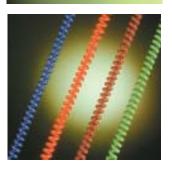




















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