



ENGLISH

Datasheet

IEC Thermocouple Extension Cable – PTFE Insulated Flat Pair

Available in Thermocouple Types K, J & T



Type 'K' Type 'J'

(Type 'K' & 'J' shown – see below for other thermocouple types and corresponding colour codes)

- PTFE insulated flat pair cable
- Single pair of PTFE insulated conductors, laid flat with PTFE jacket
- Good mechanical strength and flexibility, resistant to oils, acids and other adverse fluids
- Suitable for steam & pressure applications, autoclaves, sterilisers etc.
- Thermocouple types K, J, & T with 7/0.2mm stranded conductors
- 1/0.3mm solid conductor option available for type T
- 10, 25 & 50 metre reel lengths
- Tolerance Class 1 for optimum accuracy
- Insulation rating -75°C to 260°C
- Colour code (cores & jacket) to IEC-584-3

T/C Type	Conductors	mm²	Cores	Jacket	Reel Length	Allied Code	RS order code
KX	7/0.2mm	0.219	+Green/-White	Green	10 metres	70657132	827-5776
KX	7/0.2mm	0.219	+Green/-White	Green	25 metres	70641732	236-3858
KX	7/0.2mm	0.219	+Green/-White	Green	50 metres	70657135	827-5785
JX	7/0.2mm	0.219	+Black/-White	Black	10 metres	70657139	827-5798
JX	7/0.2mm	0.219	+Black/-White	Black	25 metres	70644362	455-4258
JX	7/0.2mm	0.219	+Black/-White	Black	50 metres	70657142	827-5808
TX	1/0.3mm	0.072	+Brown/-White	Brown	10 metres	70657137	827-5791
TX	1/0.3mm	0.072	+Brown/-White	Brown	25 metres	70643610	363-0418
TX	1/0.3mm	0.072	+Brown/-White	Brown	50 metres	70657138	827-5794
TX TX TX	7/0.2mm 7/0.2mm 7/0.2mm	0.219 0.219 0.219	+Brown/-White +Brown/-White +Brown/-White	Brown Brown Brown	10 metres 25 metres 50 metres	70657136 70641735 70657134	827-5788 236-3892 827-5782

Overall sheath Dimensions (approx.) Loop resistance (ohms per combined metre)

 1/0.3mm
 1.0mm x 1.6mm
 Type T @ 7.2 Ohms/mtr

 7/0.2mm
 1.2mm x 2.2mm
 Type K @ 4.5 Ohms/mtr

 Type J @ 2.7 Ohms/mtr

 Type T @ 2.3 Ohms/mtr

Making your own thermocouples?

L60 Thermocouple & Fine Wire Welder



The Thermocouple Welder is a compact, simple-to-use instrument designed for thermocouple and fine wire welding

It is primarily designed for use by sensor manufacturers to produce commercial grade thermocouple junctions; it is ideal for producing large numbers of exposed junction thermocouples for test and development laboratories. The L60 Thermocouple Welder is ideally suited to transducer and RTD extension lead attachment

Use of the Thermocouple Welder does not require special skills and most operatives will be capable of producing quality work with little practice. The instrument is supplied with a full range of user accessories including a footswitch

Suitable for use with wires of up to 1.1mm diameter an argon gas shield facility is included but a satisfactory thermocouple junction is produced without the need for argon. The output energy of the L60 Thermocouple Welder can be varied up to 60 Joules

- Simple to use Thermocouple Welder
- Designed for the production of commercial grade thermocouple junctions
- Also suitable for other fine wire work
- Front panel or footswitch operation
- Argon gas shield facility

Supplied complete with the following accessories:

- Wire Holding Pliers & Lead
- Safety Glasses
- Magnifying Eyeglass
- Carbon Electrodes
- Spare 2A Fuse
- Argon Hose
- Mains Lead
- Footswitch for greater ease of use



Carbon Electrode

ORDERING INFORMATION

MODELAllied CodeRS ORDER NUMBERFINE WIRE WELDER70825788363-0351Spare Carbon Electrodes (x5) for 1.1mm 250V Fine Wire Welder70656473814-0184

RS069/0816

SPECIFICATIONS

General

Energy Output 0-60 Joules Welding Capacity Wires up to 1.1mm diameter Duty Cycle Minimum 5-10 welds/min

MECHANICAL

Physical Dimensions 220mm Wide x 120mm High x 250mm Depth Weight 4kg

ELECTRICAL

Power Supply 110-120 Vac or 220-250 Vac, 50-60Hz Power Consumption Max 170VA dropping to 20VA during charging

MAINTENANCE

Apart from keeping the electrode in good order, no other maintenance is required

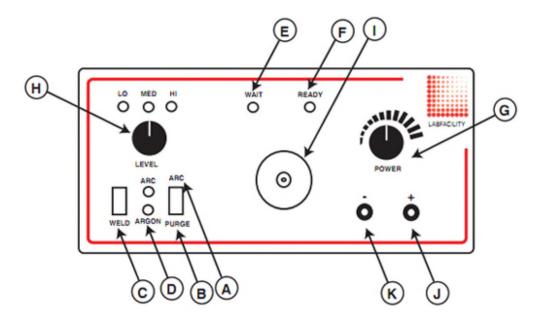
(Front View)



(Rear View)



Thermocouple Welder Controls



A B	Arc Purge	Argon gas and weld current controlled by the "Weld" switch. LED indication Allows the gas line and electrode shield to be purged of air prior to a new welding period
С	Weld Switch	Initiates a welding operation (in "arc" mode also opens the Argon valve)
D	Argon LED	Indicates when the Argon control valve is open and gas is flowing
E	Wait LED	Glows when weld charge is building
F	Ready LED	"Ready to Weld" indication
G	Power	Rotary control of the capacitor charge voltage
Н	Level Selector	Selects the total capacitance available giving the following values with LED indication

"LO" = 0 to 6 Joules "MED" = 0 to 28 Joules "HI" = 0 to 64 Joules

I Electrode Holder Holds the replaceable carbon electrode which is accessible by removing the outer Argon Shield

J Red Socket Output socket for using the pliers suppliedK Black Socket Output socket, this provides an additional earth