



ENGLISH

Datasheet

IEC PTFE Insulated Twin Twisted Pair Thermocouple Cable

Available in Thermocouple Types K, J T & N



Type 'K' Type 'T'

- PTFE twin twisted pair for extending or making simple thermocouples
- Single pair of PTFE insulated conductors twisted together
- Good mechanical strength and flexibility, resistant to oils, acids and other adverse fluids
- Suitable for steam & pressure applications, autoclaves, sterilizers etc.
- 25 & 50 metre reel lengths
- Tolerance Class 1 for optimum accuracy
- Insulation rating -75°C to 260°C
- Colour coded to IEC-584-3

T/C Type	Conductors	Cores	Reel Length	Allied code	RS order code
1	1/0.2mm 1/0.2mm	+Black/-White +Black/-White	25 metres 50 metres	70657194 70657195	827-5980 827-5984
J J K K T	1/0.315mm 1/0.315mm 1/0.315mm 1/0.315mm 1/0.315mm 1/0.315mm	+Black/-White +Black/-White +Green/-White +Green/-White +Brown/-White	25 metres 50 metres 25 metres 50 metres 25 metres 50 metres	70657198 70657199 70657200 70657205 70657208 70657206	827-5993 827-5996 827-6000 827-6019 827-6028 827-6022
J J K K	1/0.508mm 1/0.508mm 1/0.508mm 1/0.508mm	+Black/-White +Black/-White +Green/-White +Green/-White	25 metres 50 metres 25 metres 50 metres	70657197 70657201 70657203 70657204	827-5990 827-6003 827-6012 827-6016
J K T N RS183/0816	7/0.2mm 7/0.2mm 7/0.2mm 7/0.2mm	+Black/-White +Green/-White +Brown/-White +Pink/-White	25 metres 25 metres 25 metres 25 metres	70657202 70657207 70657209 70657210	827-6006 827-6025 827-6031 827-6034

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

RS183/0816

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

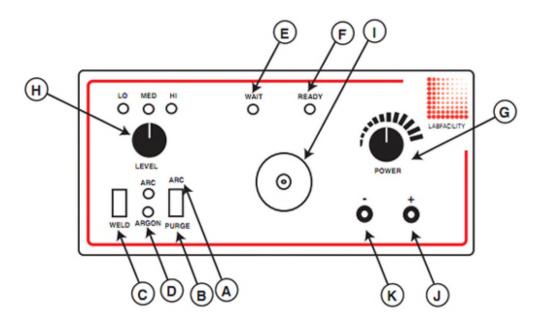
(Front View)



(Rear View)



Thermocouple Welder Controls



Α	Arc	Argon gas and weld current controlled by the "Weld" switch. LED indication
В	Purge	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