PRODUCT CATALOG





www.britishelectricals.com

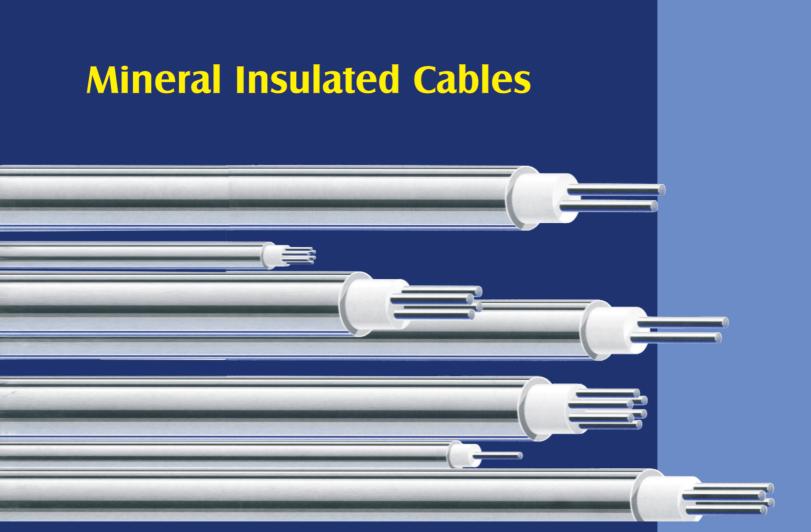


Our Product Range

- M.I. THERMOCOUPLE CABLE.
- M.I. HEATING CABLE
- M.I. POWER & SIGNAL CABLE
- INSTRUMENTATION CABLE
- SIGNAL CABLES
- THERMOCOUPLE CABLE
- COMPENSATION CABLE
- HIGH TEMP. SHEATHED CABLE
- SELF LIMITING HEATING CABLE
- CONSTANT WATTAGE HEATING CABLE
- THERMOCOUPLE & RTD. ASSEMBLIES
- RTD ELEMENT DIN/JIS/GOST. PT 10, PT - 50, PT - 100, PT - 200, PT - 500 PT - 1000, CU - 53 IN SIMPLEX/DUPLEX DIFF SIZES FORM 0.7 MM TO 5 MM DIA. CLASS - B, CLASS - A & SPECIAL TOLERANCE
- FLEXIBLE HEATERS & PADS
- THERMOCOUPLE & RTD CONNECTORS

- THERMOCOUPLE CALIBRATOR
- TEMPERATURE TRANSMITTERS
- PC PROGRAMMABLE TEMP. TRANSMITTERS
- TEMP. & HUMIDITY DATA LOGGER
- TEMP. & HUMIDITY TRANSMITTER
- UNIVERSAL I/P MODBUS O/P MODULES
- FIELD PROGRAMMABLE UNIVERSAL 8 CHANNELINPUT WITH MODBUS OUTPUT
- DUAL UNIVERSAL INPUT MODULE WITH MODBUS OUT PUT
- FIELD MOUNTING WEBSERVER
- PC LAB FOR R & D USES.
- SHORT WAVE INFRARED HEATER
- CERAMIC INFRARED HEATERS
- LED PANEL INDICATORS
- LED PUSH BUTTON SWITCHES
- WARNING LIGHTS
- PANEL BUZZERS & SIREN
- USB TO RS 485 ISOLATED CONVERTER
- THYRISTOR FUSES & BASE

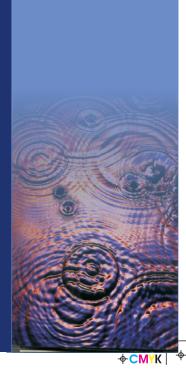
TIMER



Mineral Insulated Thermocouple Available in Standard Dia. From 1.0mm to 10 mm OD (Optional 0.15 mm / 0.25 mm/ 0.5.mm as well above 10 mm sizes) in Variety of Sheath Material : SS304L, SS310, SS316, SS316 Ti, SS321, Inconel - 600 to Suits different process medium. As per DIN 43710 Class 1 or 2

Otenderd Dimensione	OD	Thermocouple		Wall	Weight	max
Standard Dimensions :		Inner Cond. Ø	Loop resistance	thickness		Length
	approx. mm	approx.mm	ohm/m	approx. mm	approx kg/m	mts.
SIMPLEX	1.0 2.0 3.0 4.0 6.0 8.0 10.0	0.18 0.36 0.54 0.72 1.08 1.44 1.80	37.5 9.6 4.3 2.4 1.1 0.60 0.38	0.14 0.28 0.42 0.56 0.84 1.12 1.40	0.004 0.018 0.041 0.076 0.164 0.291 0.455	400 400 250 100 60 40
DUPLEX	2.0 3.0 4.0 6.0 8.0	0.32 0.48 0.65 0.95 1.28	12.5 5.5 3.0 1.4 0.77	0.28 0.48 0.56 0.84 1.12	0.018 0.043 0.077 0.172 0.307	400 400 250 100 60

Also Available Triplex & customer specific sheath material in type 'J' 'K' 'R' 'S' 'E' 'T' thermocouple & RTD cable.



R

Mineral Insulated heating Cables



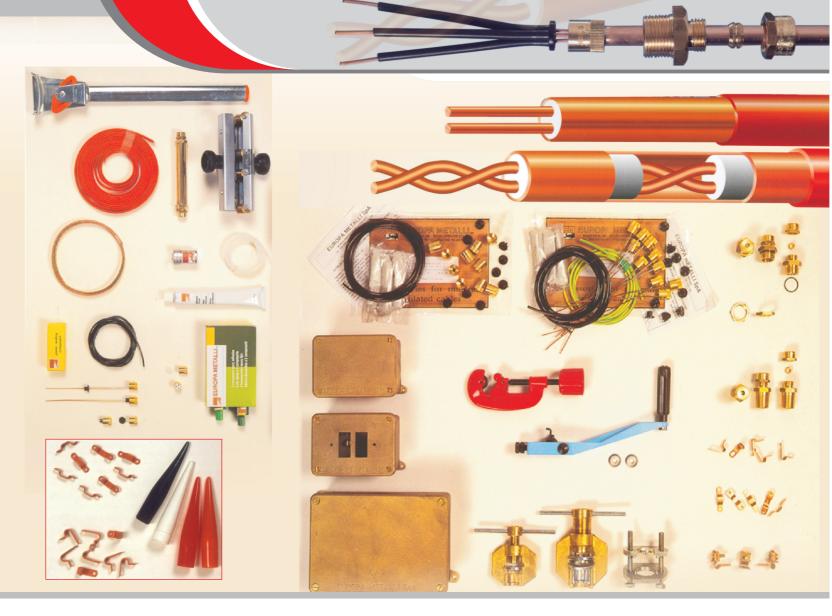
Available with:

- + Copper nickel Outer sheathing for Temperature upto 450°C
- + Stainless steel outer sheating for Temperature upto 800°C
- + Inconel Outer sheathing for Temperature upto 1000°C

Also Available :

- PTFE Insulated heating cable for Temperature upto 260°C
- + Glass weave insulated heting cable for Temperature upto 450°C
- + Quartz Insulated heating cable for Temperature upto 950°C
- Heating Tapes. * Heating Mats * Heated Jackets (Custmised Application for Industries & Research)

Mineral Insulated Cable & Accessories EUROPA METALLI



Mico[®] M.I cable manufatured acc to BS-6207 (or A 53013) an outer sheath consisting of continuous seamless copper tube with melting point of 1083°C, MGO insulant with melting point of 2800°C, 99.9% electrolytic copper conductor with melting point of 1083°C.

Mico[®] may also supplied with addition outer L.S.F. (Low Smoke & Fume) material, Self- Exteuguising sheath (Available in Orange, Red, White & Black Colour) following the requirement of IEC-332, Halogen Free, usefull for area where chemical agent may demage the copper sheath.

Cable is available light duty (upto 600V) Heavy duty (upto 1000V) in single core upto 400 Sq.mm, 2~4 cores upto 25 sq.mm & 7,12 & 19 cores upto 2.5 sq.mm size.

Mico[®] Structure offers best perfomance in many application

- + Fire Resistance Conform to IEC-331 Test
- + Explosion Proof
- + Waterproof
- + Radiation Resistance
- + Resistance to Corrosion

Standard & Certification

- + BS 6207 BASEC (UK) British Standard
- + As 3187 D.O. Energy Australia Certification
- + HD 586 1s1 IMQ (Italy) European Standard
- + CEI 20 3911 IMQ (Italy) Italian Standard
- + VDE 0284 1 VDE (Germany)
- + IEC 702 IMQ (Italy) International Standard
- + C 222 nº124 Canadian Standard.

Also Available : Lancing cable for Thermocouple Type : R, S & B in simplex, Duplex.

CONTROL AND BEYOND

novus



TxBlock and TxIsoBlock(isolated) are fully programmable head mount temperature transmitter dedicated to Pt100 and thermocouple sensors. In-the-fieled configuration of input type and working range can be achieved by means of a cable and an RS232 port from a PC.

- Programmable input Pt100 RTD and thermocouples type J, K, T, E, N, R, S, B.
 Two-wire loop powered 4-20mA output.
- Power supply: 10 to 35Vdc. Linearized output and cold junction.
- compensation for thermocouples
- 2 or 3-wire Pt100 with linearization.
- TxlsoBlock isolation: 1000 Vac
- Programmable working range.
- Windows configurator or Palm (optional).
- Manual frontal zero (offset) adjustment.
- Accuracy:-+0.2% full scale for Pt100 and 0.3% max. of FS for thermocouples. Temperature effect:0.003% SPAN/°C.
- Working temperature:-40 to +85°C
- · Programmable burnout upscale or
- downscale sensor failure protection.
- Dimensions: 44mm (Diam) x 25mm (H).



The Penguin is a stand alone data logger for recording temperature and relative humidity The sensors are built in and the data is stored in local memory from where it can be conveniently transferred to a PC via the infrared IR-Link3 interface or directly to a Palm PDA for visualization and analyses in the form of tables or graphics.

- Transparent polycarbonate IP65 case.
- · Non-contact infrared interface (IR-Link 3).
- Memory capacity: 16k loggings for Penguin

- Mentory capacity. Tok loggings for Pengun T and 32k loggings for Pengun RHT.
 Working temperature: -40°C to +80°C.
 Relative humidity: 0 to 100%.
 Accuracy: ±1.5% from 20 to 80% RU and ±40°C for temperature (20 5°C). ±1°C for temperature (@ 25°C).
- Resolution: 12 bits or 4.096 levels.
- Logging intervals: settable from 1s to 18h. Alarm setting: LO / HI. Software for Windows or Palm/OS.

- Lithium batterv: 3:6 V (good for ~5 years). Operation status LED indicator.
- International Start / Stop button.
- Internal real time clock.
- Dimensions: 45x60x20 mm

TEMPERATURE TRANSMITTERS



TxRail and TxIsoRail (isolated) are fully Programmable DIN rail mounting temperature transmitter for pt100 and thermocouple Sensors. Both units can be ordered for 0 to 10 Vdc output in a 3-wire configuration. The flexibility of in-the-field configuration translates in to a one model fits all signal conditioning and isolator module.

- Programmable input: Pt100 RTD and
- thermocouples type J, K, T, E, N, R, S, B.
- 2-wire loop powered 4-20mA output
- Power supply: 10 to 35Vdc.
- · Linearized output and cold junction
- compensation for thermocouples.
- 2 or 3-wire Pt100 with linearization.
- TxlsoRail isolation: 100 Vac.
- Programmable range and offset correction.
- Windows configurator or Palm (optional).
- Accuracy: -+ 0.2% full scale for Pt100 and 0.3% max. of FS for thermocouples.
- Temperature effect: 0.003%SPAN/°C
- Working temperature: -40 to +85°C
- · Programmable burnout upscale or downscale sensor failure protection.
 Dimension : 71mm(H)x77mm (D)x19mm.



The RHT-WM series of humidity and temperature transmitters use a unique and study high performance sensor which delivers highly stable and accurate relative humidity and temperature measurements The state of art microprocessor based electronic circuit provides dual linear outputs which perform accurate measurement to provide control in the most demanding applications.

- · Measures relative humidity from 0 to 100% without condensation.
- Dual 4-20 mA loop powered signals.
- Accuracy:_+1.5% from 20 to 80% RH@ 25°C and +1°C for temperature.
- Hysteresis:+1% RH maximum.
- Linearity:<<1% RH
- Circuit working temperature:-10 to +65°C
- . Power supply: 12 to 30 Vdc.
- Nylon probe for sensor protection.
- IP65 protected ABS enclosure.
- Enclosure dimensions:90x60x36mm.
- · Optional PC interface for configuration

CONTROL AND BEYOND









The DigiRail I/O modules provide a simple and inexpensive way for integrating digital and analog signals into PLCs and SCADA systems via RS485 interface with Modbus RTU protocol.

- Two analog inputs (DigiRail-2A), 2 Relays
- (DigiRail-2R) or 4 counting digital inputs (DigiRail-4C). · Accepts themocouples type J, K, T, E, N, R,
- S, B; Pt100 RTD; 0-20 mV, 0-50 mV, 0-5 V, 0-10 V; 0-20 mA, 4-20 mA.
- · Sensor break detection for t/c, RTD & mV.
- Analog input resolution: 17 bits.
- User defined lineariztion option for the analog inputs.
- Up to 4 digital counters inputs (DigiRail-4C) or 2 SPDT 3 A/250 Vac relays (DigiRail-2R).
- Power: 10-35 Vdc. Consumption:50 mA;
 RS485 (2-wire) Modbus RTU comm.
- Accuracy (at 25°C):±0.15% FS for Pt100, mV, V and mA.
- Isolation: 1000 Vac from digital or analog input to power or comm port.
- Windows software configurator.
- Dimensions: 71 x 77 x 19 mm.

DATA ACQUISITION, RECORDING AND SUPERVISION **FIELD LOGGER** ----



This microprocessor based data acquisition and recorder can handle any analog input and will operate as an RTU linked to a PC for on line recording and supervision or as a stand alone data logger with real time clock and graph capabilities. DIN rail compatible it has 8 universal channels that will accept different input sensors at the same time and can be easily expanded.

- 8 universal analog channels per module.
 Accepts t/c J, K, T, E, N, R, S, B; 4-20mA, Pt100, 0-50 mV without hardware change.
- Internal memory (optional)for 128,000 recordings and real time clock.
 Input resolution: 13,000 levels.
 Accuracy: 0.25% FS±1°C for t/c or 0.2%

- FS for other signals.
- Acquisition rate: from 0.5s to 1 day.
 Power: 85-250 Vac, optional 24 Vdc.
 Alarms: 2 relays 3 A for the 8 channels.
- Digital input for remote START/STOP.
- RS-485, ModbusRTU, 19200 bps.
- · 35 mm DIN rail mounting
- ABS enclosure: 105x90x60 mm.

DATA ACQUISITION, RECORDING AND SUPERVISION





myPCLab is a very compact DAQ tool which connects to a PC via a USB port and monitors two universal input analog variables along with one digital input. From hobbyists to cientists, from simple technical tasks to complex engineering activities, myPCLab can be an invaluable tool for on-line monitoring and data logging in school, laboratory research, machine data recording and industrial understanding. It comes with an intuitive and easy-to-use Windows software which plots and records data, shows gauges, bargraphs abd digital readouts.

- Dual analog inputs for t/c, Pt100,mV,mA,V.
- A/D resolution: 12to 16 bits depending on sampling rate.
- Sampling: selectable from 8 to 128 second.
- Accuracy: 0.25% FS±1°C for
- thermocouples or 0.2% FS for other signals.
- Digital input:voltage level or dry contact. USB V1.1. Virtual Serial Port driver, Modbus
- RTU protocol.
- · Windows software provides communication to multiple myPCLab devices.



The WS10 is targeted at the acquisition and transmission of data. It is capable of integrating instruments and sensors to the Internet and ethernet. The **WS10** comprises an ethernet interface, the TCP/IP protocol, 2 serial communication ports, 2 relay outputs and 4 analog or digital inputs.

As a Modbus RTU Master **WS10** can set and get information from external devices, and as a Modbus TCP Server or Gateway, can be easily integrated to SCADA systems.

WS10 can serve dynamic HTML pages, send e-mail, monitor alarm conditions and communicate with SCADA software.

- · Flash memory for HTML and Data Logging
- Comm ports: 1 RS232, 1 RS485, Ethernet
- 10BaseT.Optional: Internal V32 Modem Protocols: TCP/IP, PPP,HTTP,FTP, SMTP,
- DHCP, DNS, Modbus (TCP and RTU) Inputs:4 digital or analog (0-5V or 0-20 mA),
- 10 bits resolution.
- Outputs: 2 Relays SPST 3A/250 V.
- Power:85-250 Vca.
- Enclosure: 105x90x60mm, DIN rail mount



Miniature Connectors

200° C

High Temp

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CMJH-XX

200° C Standard CMP-XX



6

CMJ-XX

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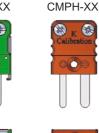


CMLJ-XX

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200° C







2-Pin

425° C





CMJC-XX

2-Pin

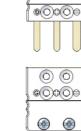
650° C

Ceramic

CMPC-XX

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3-Pin

200° C

Standard

CMPT-XX

1

CMJT-XX

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4-Pin

200° C

Duplex

CMPD-XX

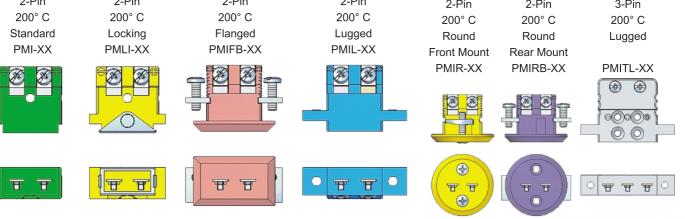
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CMJD-XX

Standard Panel Inserts

2-Pin 2-Pin 3-Pin 2-Pin 2-Pin 2-Pin 200° C 200° C 200° C 200° C 200° C 200° C Round Round Lugged Standard Flanged Lugged Front Mount Rear Mount PSI-XX PSIFB-XX PSIL-XX PSIR-XX PSIRB-XX PSITL-XX Œ **H** H 0000 • 00 **Miniature Panel Inserts** 2-Pin 2-Pin 2-Pin 2-Pin 2-Pin 2-Pin 3-Pin



Standard Connectors



2-Pin 200° C Standard CSP(L)-XX



2-Pin 650° C Ceramic

CSPC(L)-XX



2-Pin 200° C Jab in CSPQ(L)-XX



2-Pin 650° C Ceramic Jab-in CSPCQ(L)-XX

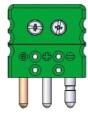






3-Pin 200° C Standard







4-Pin 200° C Standard

CSPD(L)-XX





CSJ-XX



CSJC-XX



CSJQ-XX



CSJCQ-XX



CSJH-XX



CSJT-XX



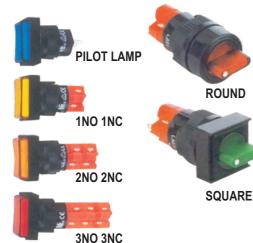
CSJU-XX



CSJD-XX

SUMO LAS-SERIES PUSHBUTTON SWITCHES

LAS 1 418	18 x 18	18 x 24
LAS 2 18	14 x 14	14 x 18
LAS 3 18	12 x 12	12 x 16
LAS 4 018	9 x 9	9 x 12

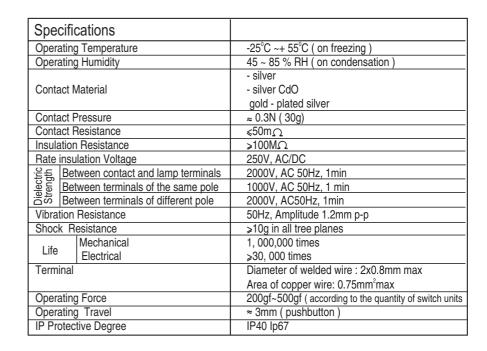


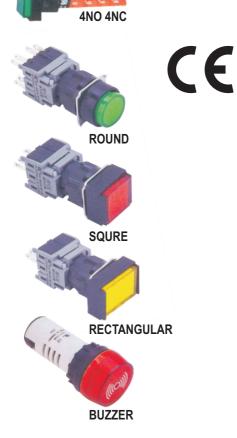
Characteristics

- The installation hole's diameter of the series 8, 10, 12, 16 mm
- Every pushbutton can be 1~4 NO + NC contact.
- Use the gold plated silver contact or silver contact.
- The Front shape : Round, Rectangular, Square Many type are available: Indicator pilot lamps, pushbuttons, Illuminated
- push buttons, Selector switches, and Key lock switches. IP Protective Degree : IP40, IP 67.

ORDERING INFORMATION

LAS (X	() 🗆 —		Π,	/ 🗆	/	/ 🗆
of series	the front shape : Y round F square J rectangular M mushroom DF big square DJ big rectangular	44 4NO 4NC		G Green Y Yellow O Orange B Blue W white	Selector and key lock Series : 2 two position 3 three Position	the specific rating of the lamp with illuminated button is included in the illuminated unit rating form







LED PUSH BUTTON WITH CONTACT BLOCK ADDED ON TYPE Voltage : 240V AC Diameter : 22.5 mm Also available in 16 mm without contact block

SUMO

Working Envoirnment

Temp. Range : -25° C to $+55^{\circ}$ C Humidity : $\leq 93\%$ non-condensing Works Normally from $3\sim60$ Hz Vibration: ≤ 0.7 g. Pollution Class : 3 Install Sort : III Model Marked "TH" for moiture resistance







BUZZER WITH FLASHER 22.5 mm & 16 mm

Available in : 240 VAC / 24 VAC / DC.

/ DC. 22.5 mm & 16 mm

Specification

Insulation resistance : $\ge 2 \text{ Meg}(\)$ Ohms Residual Voltage : 2.5 KV AC for 1 min. (max) Voltage variation : $\pm 20\%$ Working life : 30,000 Hrs. Continuous Light Intensity : $\ge 60 \text{ cd/m2}$ Relative leakage index : CTI ≥ 100 Protection Standard : IP65 Frequency AC : 50~60Hz

Voltage Available :

12 VAC / DC, 24 VAC / DC, 110 VAC & 240 VAC other voltages available on request.



⇔CMΥK | ♦

CERAMIC TUBES FOR THERMOCOUPLE ASSEMBLIES



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Available Sizes

O.D 24 MM x I.D 18 MM x 700 MM O.D 24 MM x I.D 18 MM x 1030 MM O.D 20 MM x I.D 15 MM x 700 MM O.D 20 MM x I.D 15 MM x 1030 MM

With Inner Tube & Insulator

PF	ROPERTIES	UNITS	TEST	CUMITUFF 94	CUMITUFF 95W	CUMITUFF 98	CUMITUFF 995
CHEMIC	CAL COMPOSITION			94% Alumina	95% Alumina	98% Alumina	99.5% Alumina
CAL	DENSTTY	gm/cc	ASTM C373-88 (2006)	3.70	3.70	3.80	3.85
PHYSICAL	Colour Water Absorption	 %	 ASTM C373-88 (2006)	White 0	White 0	White 0	lvory 0
	Elastic Modulus Poisson's	CPa	ASTM C1198-08 ASTM 1198-08	300 0.21	320 0.22	340 0.22	370 0.22
MECHANICAL	Flexural Strength Compressive	MPa	ASTM C1161-02c (2008) ASTM	350	340	330	370
MECH	Strength Fracture Toughnes	MPa MPa-m ^{1.5}	C1424-04 ASTM C1421 01b (2007)	2100 (4-5)	2300 (4-5)	2500 (4-5)	2600 (4-5)
	Vickers (Rockwell) Hardness	CPa 1000g (R45N)	ASTM CI327-03	13.2 (78)	13.2 (78)	14.2 (81)	14.8 (82)
	Thermal Conductivity	W/m-k	ASTM C1470-06	22.4	23	27.3	30
THERMAL	Coefficient Of Thermal Expansion 25-1000OC	10⁴/C	ASTM C 1470-06	8.2	8.2	8.2	8.3
臣	Max Use Temperature Thermal Shock Resistance ∆Tc	°C °C	No load condition ASTM CI525-04	1700 250	1600 250	1700 250	1750 200
	Dielectric Strength	ac-kV/ mm (3.18mm)	ASTM D149-97a (2004)	8.5	8.7	8.5	8.7
CAL	Dielectric Loss	25°C 1MHZ	ASTM D2520-01	0.0004	-	0.0001	0.0001
ECTRICAL	Volume Resistivity	25°C ohm-cm	-	>10 ¹⁴	-	>10 ¹⁴	>10 ¹⁴
ELE		500°C ohm-cm	-	4x10 ⁴	-	2x10 ¹⁰	2x10 ¹⁰
		1000%. ohm-cm	ASTM D1829	5x10⁴	-	2x10⁴	2x10⁵
	Prime characteris	tics		Excellent electrical Insulation & Metallised Ceramics	Moderate wear & Corrosion resistance, good Electrical Insulation & Thermal Conductivity	Good Ballistic Properties	Excellent Wear. Corrosion Resistance & Excellent Ballistic Properties



FEATURES QUICK RESPONSE MAINTENANCE FREE PROLONGED SERVICE LIFE HIGH OXIDATION RESISTANCE NO CONTAMINATION OF THE BATH EXCELLENT THERMAL SHOCK RESISTANCE LOW THERMAL EXPANSION COEFFICIENT NO CORROSION FROM MOLTEN ALUMINUM



The Ultimate in thermocouple tube for molten metals, Lava Tube is ultimate in thermal protection for Aluminum industries, also Suitable for other molten metal like Zinc & Lead also. Any molten metal is highly alkaline corrosive liquid and it corrodes any metal protection tube of thermocouple. The Lava is highly suitable thermocouple protection tube having high corrosion resistance, Non wetting, and will withstand thermal shock at high temperature Without crack or break

After years of research & industries feedback, The Lava is developed to overcome industry's sensing problem in molten metal & frequent failure resulting break down and production loss. The Lava is available in standard sizes also can be made as pre customer's requirement with MOQ restriction

DESCRIPTION

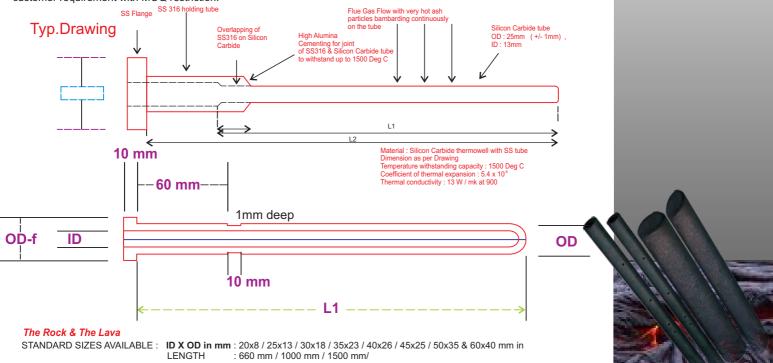
Closely resembling to metal Lava is a new unique engineering ceramic. Due to its features like superior strength at high temperatures, excellent thermal shock resistance, and no chemical reaction to molten aluminum, it is good choice as thermocouple protection tubes and immersed heater protection tubes for use in molten aluminum baths even where there are rapid temperature fluctuations

Lava has solved the existing problem of brittleness of ceramic thermocouple tubes while still retaining their properties of heat, abrasion and corrosion resistance. Moreover, due to impermeable and non-wetting surface of Lava thermocouples assemblies need no daily washing or coating thereby providing maintenance free use in molten aluminum baths, much longer life than any other protection tube

Lava thermocouple protection tubes require no pre - heating due to thermal expansion coefficient and thermaP'/* shock resistance. Their low heat conductivity helps to prevent temperature drop in the molten aluminum bath and contributes to energy conservation, since the tubes are of ceramic material, there is no iron pick-up to create contamination in aluminum

contamination in aluminum The Rock Thermocouple protection tube is highly suitable for high temperature application ideal for Incinerator, flue gas, acid, and other chemicals. The Rock can Withstand high velocity flue gas particles coming out of Boilers while conventional Metal sheath get corroded very fast and cause frequent sensor failure, The Rock is developed after study of industries requirement & feedback.

The Rock protection tube is ideal solution for long life and available with standard size & also available as per customer requirement with MOQ restriction.



NOTE :- OTHER SIZES ON REQUIREMENT

THERMOCOUPLE CABLE



PTEF / PTEF & PTEF / SILICON CABLE



Film Type and Wire Wound RTD





CONNECTORS









THERMOCOUPLE CABLE



HEAT TRACER T/C CABLE



Cable can be produced from single core to 100 cores in different conductor sizes & Sheath materials & combination there of; For signal cable, instrumentation cable, RTD cable and thermocouple / compensating cable. PTFE Silicon Rubber Fibreglass PVC Elestomer Natural Rubber Customer Specified

K.

Thermocouple Assemblies & Thermowells



Manufactured as per customer requirement in different sizes & sheath material. Mineral insulated from 0.5 mm to 8mm OD simplex / Duplex Isolated or grounded junction in SS316 / SS321 / Inconel-600 Sheath and Beaded Insulated Assembly. Thermowell : Barstock / Fabricated - straight or tapered in SS316 / SS321 / Inconel-600 / Hastalloy - B/C / Titanium / Tentalum / Zirconium & Other Material



Thermocouple Sensor Calibration system

- Specially designed for temp. Sensor Calibration suitable for up to 1100°C Temp. (Thermocal-8) 400°C (Thermocal-3) All in one compact unit consist of following features
- Up to 7 thermocouple +1 Master can be calibrated at a time. (Thermocal-8)
 2 Thermocouple + 1 master (Thermocal-3)
- Master PID controller Interface for accurate heating & controlling Optional : Computer Interface for remote setting of parameters + Monitoring Profile control for multi - points calibration
- 8 Channel scanner with RS 232 Interface to log result with programable duration from 1 min. to 99min. (Thermocal-8)
- On Line logging options.
- External 80 column printer interface with dedication data interface to store up to 450 data of 16 channel with RTC with customised header and footer for direct printing or storing and printing later for (Thermocal-8)
- Computer Interface with Software to monitor and store data as well export to EXCEL, WORD, RTF etc.
- Isothermal Inconel 600 block with 8 pockets of diff. sizes and diff. daimeters High temp. Thermal Insulation to minimize outer case temp. max 5°C above embient.











LAB FURNACES



BLF-1200

Compact Bottom Loading Lab Furnace for 1200°C ideal for R & D application & ceramic industries like Dis integration, Test & Analysis of Advance Ceramic Sample, Glass melting, Refractory porosity, Long term temperature test, Firing & Sintering, Semi conductor Industries for Annealing silicon, Silicon carbide & Nitride samples. Furnace have electrically operated elevator for ease of loading / unloading operation furnace uses latest medium wave infrared technology controlled by Micro Processor Based, fuzzy logic PID control with programmable profile for 2 Pattern of 8 Step each for programming rate of Temp rise & hold time (Ramp / Soak), RS-232 Communication port is provided for on-line monitoring / controlling & Data logging with software provided, multiple using can be monitor using same software (upto 30 diff. Furncacesmodbus RS-485 interface in place of RS-232 fully insulated for Electrical & Heat.

Power	:	230 VAC ± 10% 50 Hz, 2000W.
Size	:	485mm (L) 325mm (D) 690mm (H)
		Weight : 26Kgs. Apx.
Option :		Inert Gas / Vaccum Atmosphere
		1400°C & 1800°C Range.



VQTF-1200

Compact Lab Furnace specially developed for R&D usage for Sampling & Testing using vaccume or insert atmosphere suitable for 1200° C, using latest medium wave infrared technlogy controlled by Micro Processor Based, fuzzy logic PID controller with programmable profile for 2 Pattern of 8 Step each for programming rate of Temp rise & hold time (Ramp / Soak), RS-232 Communication port is provided for on-line monitoring / controlling & Data logging with software Provided, multiple units can be monitor using same software (upto 30 diff. Furncaces using modbus RS-485 interface in place of

RS-232) fully insulated for Electrical & Heat.

Power	: 230 VAC ± 10%, 50 Hz, 2000W.
Dimeasins	: 460mm (H) 302 (W) 405 (D)
Quartz Tube	: OD: 50mm ID: 45mm Length : 700mm
Weight	: 24Kg. Approx
weight	24Kg. Approx



TLF - 1200

Compact Top Loading Lab Furnace suitable for melting application using Graphite Crucible for 1200°C Ideal for R&D, Glass Industries, Jwellery industries. Furnace uses high temp. heating elements controlled by Micro Processor Based, fuzzy logic PID controller with programmable profile for 2 Pattern of 8 Step each for programming rate of Temp rise & hold time (Ramp / Soak), RS-232 Communication port is provided for on-line monitoring / controlling & Data logging with software provided, multiple units can be monitor using same software (upto 30 diff. Furncaces using modbus / RS-485 interface in place of RS-232) fully insulated for Electrical & Heat.

Power Dimension Weight

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230 VAC ± 10%, 50 Hz, 2000W. 295mm(L) 250mm (D) 475mm (H) 15 Kgs. Apx





FLF - 1200

Compact front loading Lab Furnace suitable for 1200°C using latest medium wave infrared technology controlled by Micro Processor Based, fuzzy logic PID controller with programmable profile for 2 Pattern of 8 Step each for programming rate of Temp rise & hold time (Ramp / Soak), RS-232 Communication port is provided for on-line monitoring / controlling & Data logging with software provided, multiple units can be monitor using same software (upto 30 diff. Furncaces using modbus RS-485 interface in place of RS-232) fully insulated for Electrical & Heat. Electrically operated front door for opening / closing for ease of putting & removing jobs.

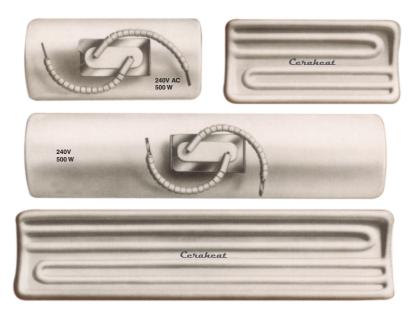
Power	:	230 VAC ± 10%, 50 Hz, 2000W.
Size	:	340mm(L) 430mm (D) 416mm (H)
Weight	:	26 Kgs. Apx

Infrared Heater - Short wave

Standa	Standard range of short wave IR Heater				
Code	Heated HL (mm)	Length OL (mm)	Overall Length (W)	Wattage Voltage (V)	
SW500 SW1000 SW1600S SW1600D SW2000S SW2000D SW2500D SW3000S SW3000D	127 254 406 406 508 508 635 508 765	212 348 500 500 626 626 728 626 1120	500 1000 1600 2000 2000 2500 3000 3000	240 240 240 415 240 415 415 240 415	

All the above lamps are with round ceramic cap and 100mm long lead wire at both ends. For horizontal mounting application only





Ceraheat Ceramic I/R heaters for Industrial Heating / Baking are available in following wattage and sies

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SIZE	WATTS
245 x 60HSC	650W 1000W
120 x 60HSC	350W 500W
120 X 120 HSF	500W 1000W

Also available with embedded T / couple "K"

TC-O1 MULTI RANGE TIMER CE



FUNCTION:

OFF DELAY:

When input power is applied timing begins & output relay gets energized. At the end of the preset time, the relay de-energizes. The timer is reset when the input power is removed. Reset: removing input voltage resets the time delay and output relay.

SPECIFICATIONS:

SUPPLY VOLTAGE	: 24V AC/DC~240VAC/DC
DELAY MODES	: On delay/Off delay Jumper Selection
TIME RANGE	: 99 Sec; 99 Min; 99 Hour (Selectable by push wheel Switch)
OUT PUT	: 2 Relay, 1 C/O 1 Amp. Resistive Load
LED INDICATION	: Flashing (while timer is running) Continuous on (while RELAY ON)
RESET	: On interruption of power
MOUNTING	: DIN rail mounting
SIZE (in mm)	: 22.5 (W) X 75 (H) X101 (D)
TEMPERATURE	: 0 to 50 □C
HUMIDITY	: 85% RH
WEIGHT	: 115 grams

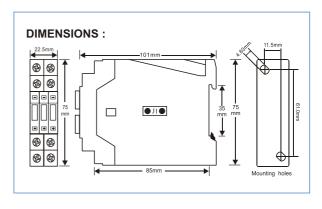
OPERATING MODES:

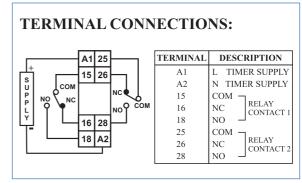
FEATURES:

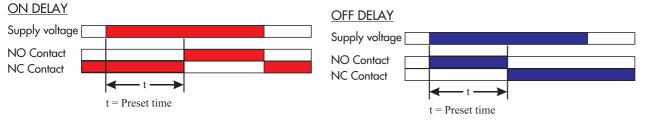
- Selectable On / Off delay
- Selectable time range (Hr, Min & Sec)
- Din rail Mounting/ Screw Mounting
- Slim space saving construction

ON DELAY:

When input power is applied timing begins, during which the output relay remains de-energized. At the end of the pre selected time, relay energizes. The output relay is de-energized when power is Reset: removing input voltage resets the time delay and output relay. removed, thus resetting the timer for the next cycle.



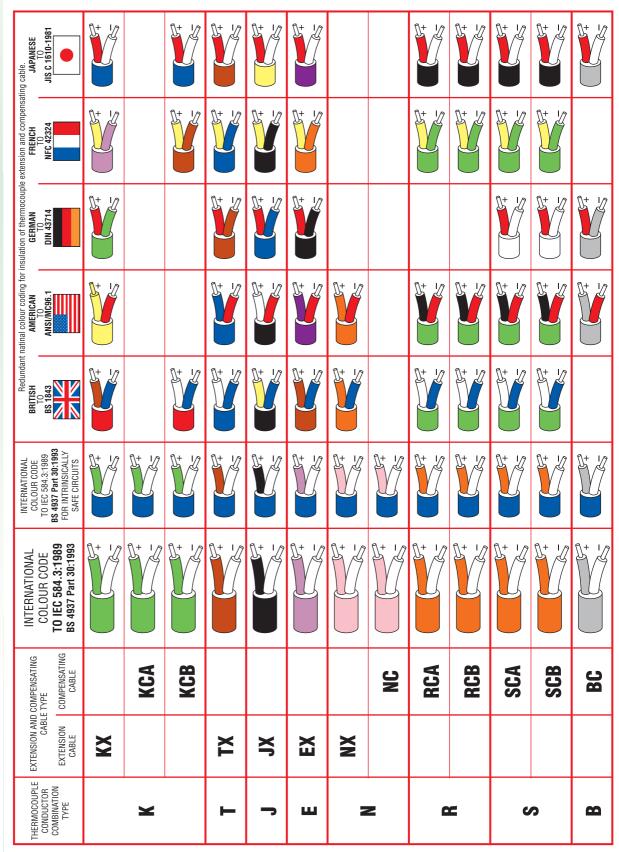


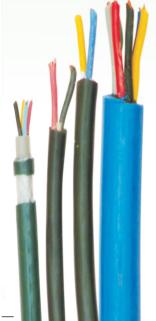


NOTE:

ON delay or OFF delay jumper selectable. (Remove jumper J1 for ON delay mode)

Colour Codes For Thermocouple Extension and Compensating Cable







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Think of Temperature sensing Think **british** Electricals







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