

1.27mm (0.05in) PITCH

**NEW**

### LUMBERG type MICROMODUL

An insulation displacement wire-to-board interconnection system set on the industry standard 1.27mm (0.05in) pitch configuration. Space saving design makes them ideal for high density applications. Offers a choice of mounting method for both the ribbon cable connectors and the matching pcb headers.

#### Specification

##### Materials & Finishes

**Insulators**  
 MICA, MICAL ..... White glass filled PBTP  
 MICS, MICS-D ..... Black glass filled PBTP  
 MICSW, MICS/SMD ..... Black glass filled PA  
 all flame retardant to UL94V-0

**Contacts/Pins**  
 MICA, MICAL ..... Copper alloy, tin plated  
 MICS, MICS-D .....  
 MICSW, MICS/SMD ..... Brass, tin over nickel plated

##### Electrical

Current rating ..... 1.2A  
 Voltage rating ..... 250Vac  
 Proof voltage ..... 750V  
 for 1 minute  
 Contact resistance (max.) ..... 10mΩ  
 Insulation resistance (min.) ..... 1000MΩ

##### Environmental

Operating temperature range.... -25°C to +100°C

- ◆ 1.27mm pitch
- ◆ For wire-to-board IDC connection
- ◆ Ideal for high density applications
- ◆ Choice of mounting
- ◆ 4 to 26 or 36 ways
- ◆ Flame retardant insulators

#### IDC CONNECTORS



Pre-loaded mass termination housings, with insulation displacement contacts, designed for use with 0.05in. (1.27mm) pitch ribbon cable. Suitable cable being shown on page 173. The single piece housings aid cable positioning and employ white flame retardant insulators with integral strain relief. Two styles are available offering a choice of mounting method.

#### HEADER MOUNT

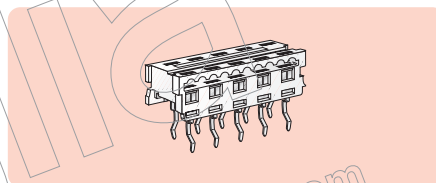
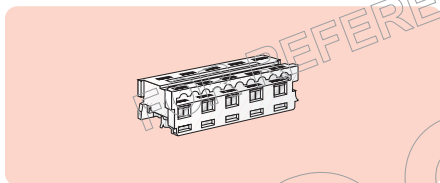
For mating with the header range shown on the opposite page. Feature a polarised body to ensure correct orientation.

MICA

PCB MOUNT

MICAL

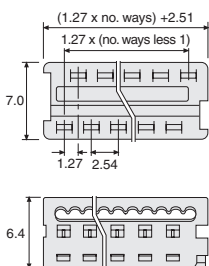
For direct mounting onto a pcb. Kinked terminals aid board retention during soldering.



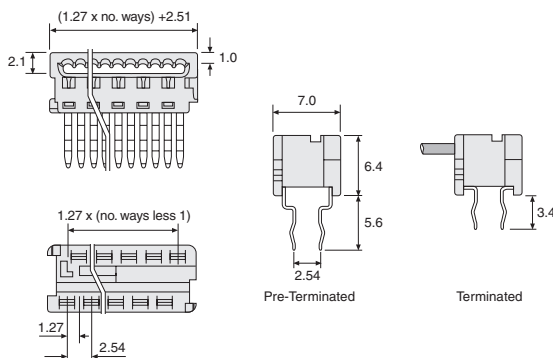
Type	Manf. Part No. & anglia Order Code
4 way	MICA04
6 way	MICA06
8 way	MICA08
10 way	MICA10
12 way	MICA12
14 way	MICA14
16 way	MICA16
18 way	MICA18
20 way	MICA20
26 way	MICA26
36 way	MICA36

Type	Manf. Part No. & anglia Order Code
4 way	MICAL04
6 way	MICAL06
8 way	MICAL08
10 way	MICAL10
12 way	MICAL12
14 way	MICAL14
16 way	MICAL16
18 way	MICAL18
20 way	MICAL20
26 way	MICAL26
36 way	MICAL36

#### Dimensions (mm)



#### Dimensions (mm)



**1.27mm (0.05in) PITCH**

**NEW**

**HEADERS**

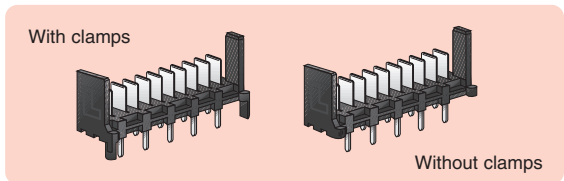
PCB mounting headers with integral friction lock and black flame retardant insulators. In-line flat blade contacts have staggered solder terminations. Choice of through hole or surface mount.

**THROUGH HOLE**

Designed to mate and lock with the MICA range of IDC connectors. Option of straight or right angle forms with straight available with or without pcb clamps.

**Straight**

**MICS/MICS-D**



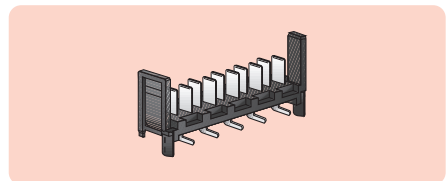
Type	Manf. Part No. & anglia Order Code With clamps	Without clamps
4 way	MICS04	MICS-D04
6 way	MICS06	MICS-D06
8 way	MICS08	MICS-D08
10 way	MICS10	MICS-D10
12 way	MICS12	MICS-D12
14 way	MICS14	MICS-D14
16 way	MICS16	MICS-D16
18 way	MICS18	MICS-D18
20 way	MICS20	MICS-D20
26 way	MICS26	MICS-D26
36 way	MICS36	-

**SURFACE MOUNT**

Designed to mate and lock with the MICA range of IDC connectors.

**Straight**

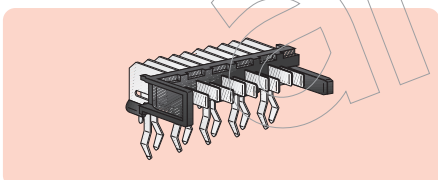
**SMD MICS/SMD**



Type	Manf. Part No. & anglia Order Code
4 way	MICS/SMD04
6 way	MICS/SMD06
8 way	MICS/SMD08
10 way	MICS/SMD10
12 way	MICS/SMD12
14 way	MICS/SMD14
16 way	MICS/SMD16
18 way	MICS/SMD18
20 way	MICS/SMD20
26 way	MICS/SMD26

**Right Angle**

**MICSW**



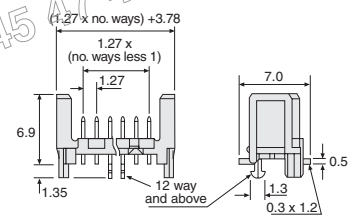
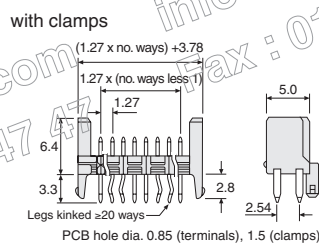
Type	Manf. Part No. & anglia Order Code
4 way	MICSW04
6 way	MICSW06
8 way	MICSW08
10 way	MICSW10
12 way	MICSW12
14 way	MICSW14
16 way	MICSW16
18 way	MICSW18
20 way	MICSW20
26 way	MICSW26

**Dimensions (mm)**

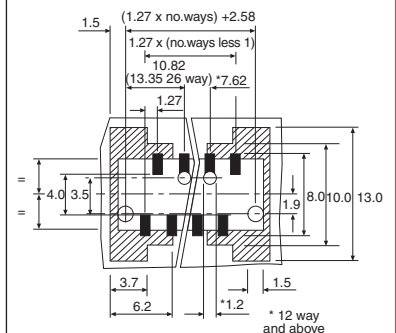
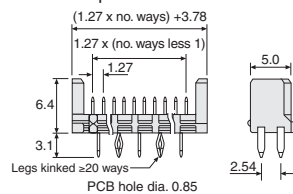
**THROUGH HOLE**

**SURFACE MOUNT**

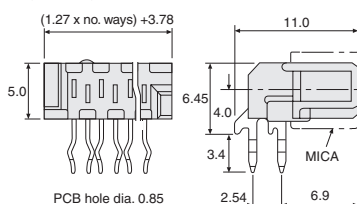
**Straight**



**without clamps**



**Right Angle**



**lumberg**

For the very latest information and news on the full range of lumberg products available from Anglia, visit our website : [www.anglia.com/lumberg](http://www.anglia.com/lumberg)

Alternatively, contact our Sales Desk to discuss your specific requirements.

## 2.5mm PITCH



### LUMBERG type MINIMODUL

A high quality pcb interconnect system with a 2.5mm industry standard pitch configuration. The range comprises of cable connectors in either crimp terminal housing or IDC form, square pin headers with or without lock and a pcb socket in top entry style. Available throughout in 2 to 20 ways the various connector combinations will provide a choice of wire-to-board or board-to-board mounting orientations.

#### Specification

##### Materials & Finishes

Insulators	
3114 .....	Black PBT
2.5MBX .....	Black PC
2.5MSF .....	Black glass filled PBTP
2.5MS .....	Black glass filled PA6
2.5MB .....	Black PPO
	all flame retardant to UL94V-0

##### Contacts/Pins

3111 .....	} Copper alloy, tin plated
2.5MBX .....	
2.5MSF .....	
2.5MS .....	} Brass, tin over nickel plated
2.5MB .....	
	Copper alloy, tin over nickel plated

##### Electrical

All types except where noted	
Current rating .....	5A
	(3114, 3111: 5A at 30°C, 2.5A at 70°C)
Voltage rating .....	250Vac
Proof voltage .....	2000V
	for 1 minute
Contact resistance (max.) .....	10mΩ
Insulation resistance (min.) .....	1000MΩ
	(types 2.5MSF, MS, MB)

##### Environmental

Operating temperature range	
3114, 3111 .....	-25°C to +100°C
2.5MBX, MSF, MS, MB .....	-40°C to +110°C

- ◆ 2.5mm pitch
- ◆ For wire-to-board & board-to-board connection
- ◆ 2 to 20 ways
- ◆ Black flame retardant insulators
- ◆ Locking action prevents accidental disconnection

### CABLE CONNECTORS

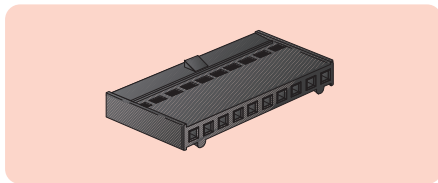


Option of crimp terminal housings or insulation displacement (IDC). Both ranges have black flame retardant insulators with integral locking ramps and feature polarising ribs to ensure correct orientation when connecting to the pin headers with lock. May also be used in conjunction with the pin headers without lock for applications where easy disconnection is required. Polarising keys are available to special order.

#### CRIMP TERMINAL HOUSINGS

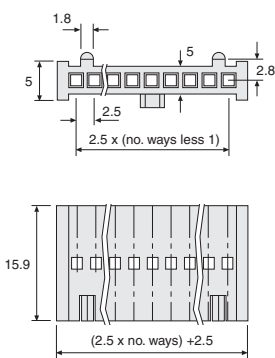
3114, 3111

Unloaded housings designed to accommodate the crimp terminals listed below. Terminals are offered in two wire sizes, both available loose or on reels with end chain arrangement to suit crimping machines.



#### Housings

##### Dimensions (mm)



Type	Manf. Part No. & anglia Order Code
2 way	3114-02
3 way	3114-03
4 way	3114-04
5 way	3114-05
6 way	3114-06
7 way	3114-07
8 way	3114-08
9 way	3114-09
10 way	3114-10
11 way	3114-11
12 way	3114-12
13 way	3114-13
14 way	3114-14
15 way	3114-15
16 way	3114-16
17 way	3114-17
18 way	3114-18
19 way	3114-19
20 way	3114-20

#### Crimp Terminals (open barrel)

##### Wire acceptance

Choice of two sizes, both 2.1mm max. insulation diameter

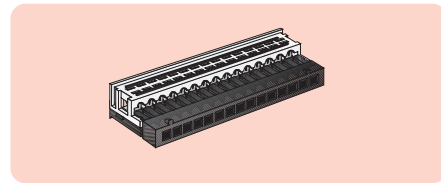


Type	Manf. Part No. & anglia Order Code
Wire size 0.1mm <sup>2</sup> to 0.25mm <sup>2</sup>	
Reel - end chain	3111-01-G
Loose	3111-01-L
Wire size 0.3mm <sup>2</sup> to 0.6mm <sup>2</sup>	
Reel - end chain	3111-03-G
Loose	3111-03-L

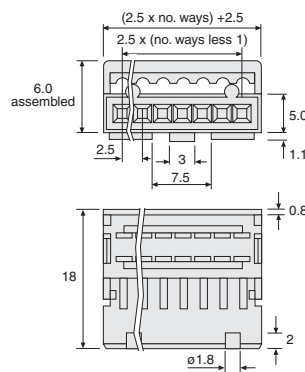
#### INSULATION DISPLACEMENT (IDC)

2.5MBX

Pre-loaded mass termination housings, with insulation displacement contacts, designed for use with 2.5mm pitch ribbon cable such as Lumberg 2.5LIYV.



##### Dimensions (mm)



Type	Manf. Part No. & anglia Order Code
2 way	2.5MBX02
3 way	2.5MBX03
4 way	2.5MBX04
5 way	2.5MBX05
6 way	2.5MBX06
7 way	2.5MBX07
8 way	2.5MBX08
9 way	2.5MBX09
10 way	2.5MBX10
11 way	2.5MBX11
12 way	2.5MBX12
13 way	2.5MBX13
14 way	2.5MBX14
15 way	2.5MBX15
16 way	2.5MBX16
17 way	2.5MBX17
18 way	2.5MBX18
19 way	2.5MBX19
20 way	2.5MBX20

**2.5mm PITCH**

**PIN HEADERS**

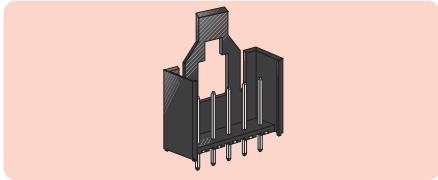


PCB mounting 0.64mm (0.025in) square pin headers with black flame retardant insulators. Available with or without lock.

**WITH LOCK**

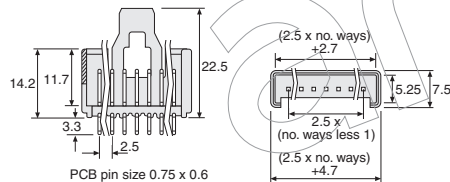
**2.5MSF**

Designed to mate and lock with both ranges of cable connectors. Will also mate without locking with the pcb sockets.



Type	Manf. Part No. & anglia Order Code
2 way	2.5MSF02
3 way	2.5MSF03
4 way	2.5MSF04
5 way	2.5MSF05
6 way	2.5MSF06
7 way	2.5MSF07
8 way	2.5MSF08
9 way	2.5MSF09
10 way	2.5MSF10
11 way	2.5MSF11
12 way	2.5MSF12
13 way	2.5MSF13
14 way	2.5MSF14
15 way	2.5MSF15
16 way	2.5MSF16
17 way	2.5MSF17
18 way	2.5MSF18
19 way	2.5MSF19
20 way	2.5MSF20

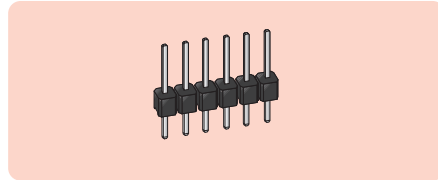
**Dimensions (mm)**



**WITHOUT LOCK**

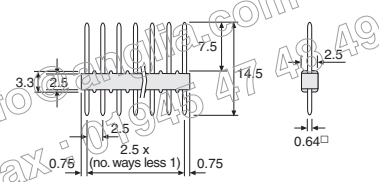
**2.5MS**

Will mate without locking with both ranges of cable connectors and the pcb sockets.



Type	Manf. Part No. & anglia Order Code
2 way	2.5MS02
3 way	2.5MS03
4 way	2.5MS04
5 way	2.5MS05
6 way	2.5MS06
7 way	2.5MS07
8 way	2.5MS08
9 way	2.5MS09
10 way	2.5MS10
11 way	2.5MS11
12 way	2.5MS12
13 way	2.5MS13
14 way	2.5MS14
15 way	2.5MS15
16 way	2.5MS16
17 way	2.5MS17
18 way	2.5MS18
19 way	2.5MS19
20 way	2.5MS20

**Dimensions (mm)**

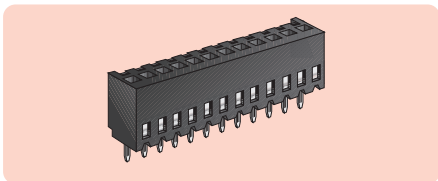


**PCB SOCKETS**

Top entry pcb mounting sockets with black flame retardant insulators, suitable for mating with the pin headers.

**TOP ENTRY SOCKET**

**2.5MB**



Type	Manf. Part No. & anglia Order Code
2 way	2.5MB02
3 way	2.5MB03
4 way	2.5MB04
5 way	2.5MB05
6 way	2.5MB06
7 way	2.5MB07
8 way	2.5MB08
9 way	2.5MB09
10 way	2.5MB10
11 way	2.5MB11
12 way	2.5MB12
13 way	2.5MB13
14 way	2.5MB14
15 way	2.5MB15
16 way	2.5MB16
17 way	2.5MB17
18 way	2.5MB18
19 way	2.5MB19
20 way	2.5MB20

**Dimensions (mm)**

