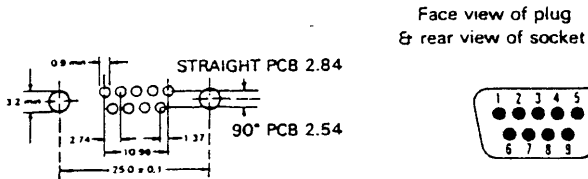


# 'D' Subminiature Technical Specifications

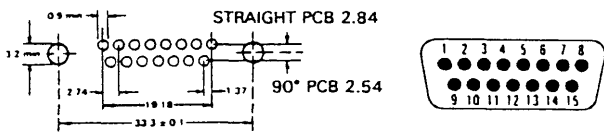
## Dimensional Information

### PRINTED CIRCUIT BOARD HOLE PATTERNS

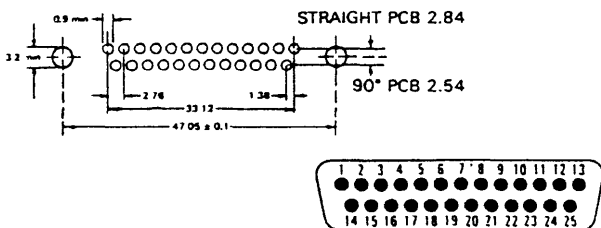
#### 9 WAY



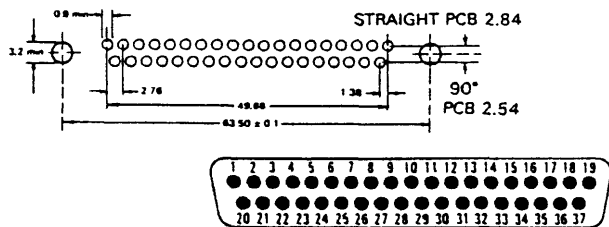
#### 15 WAY



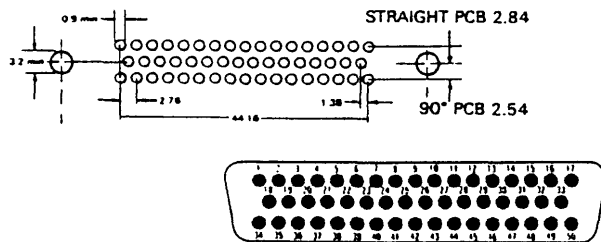
#### 25 WAY



#### 37 WAY

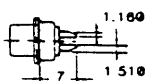


#### 50 WAY



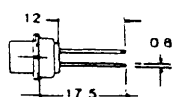
### TERMINATION STYLES, OUTLINE DIMENSIONS AND MOUNTING DETAILS

#### Type Z



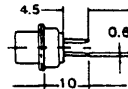
Solder bucket for conventional wiring. Maximum wire size: 20 AWG.

#### Type W



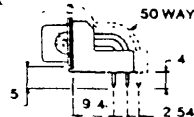
Wire wrap terminals 0.6 square. Length 12 mm.

#### Type Y



Straight pins for flow soldering onto a printed circuit board.

#### Type R



90° right angled pins for flow soldering onto a printed circuit board.

### Four standard options available:

1. Economy 'D' fitted with stamped, gold plated contacts.
2. Standard 'D' fitted with turned copper alloy contacts, gold plated over nickel.
3. Crimp 'D' a versatile and economical range of crimp connector bodies which will accept either stamped or turned crimp contacts for rear insertion and rear release.
4. 'Professional D' qualified to BS9523 F0018
  - Additionally a two gang assembly is available which further increases the flexibility of the series.
  - Five basic shell sizes containing 9, 15, 25, 37, and 50 contacts.
  - Provision for solder bucket, wire wrap, straight P.C.B., and 90° P.C.B. terminations.
  - Intermateable with MIL-C-24308.
  - Two part thermoplastic insulators, flame retardant to UL94VO.
  - Available with float mounts.
  - Available with 4-40 UNC clinch nut mounting.
  - Standard shell finish, yellow passivation over zinc plate.
  - Dimpled plug connector shells available to ensure good E.M.I. shielding.
  - Tin plated shells available, usually specified in conjunction with dimpled plug shells to enhance shell continuity
  - Ideal for use in business machines, computers, telecommunications, and general instrumentation.

### General Electrical and

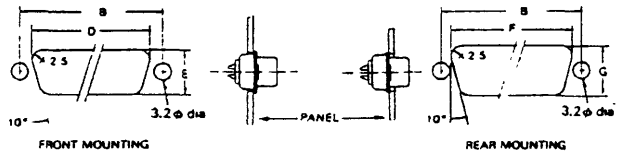
#### Mechanical Specification

- Current Rating: 5A per contact with 20 A.W.G. cable.
- Working Voltage: 500V ac or dc peak.
- Contact Resistance: Initial: <5 milliohms.
- Insulation Resistance: >10 Megohm.
- Temperature Range: -55°C to 125° C.
- Polarisation: By trapezoidal shell
- Coupling: By friction
- Supplementary locking accessories also available.

### Materials and Finishes

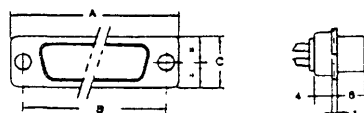
- Shell: Steel with yellow passivation over zinc plate. Steel bright electro tin plated, male shells also feature dimples to enhance continuity and provide good EMI/RFI shielding.
- Insulators: Two part thermoplastic mouldings, flame retardant to UL94VO
- Contacts: Copper alloy, gold plated over nickel.
- NOTE\* For more specific performance and dimensional details for the Professional 'D' range, please refer to BS9523 F0018. Copies available on request.

### Dimensions - Panel Cut Out



SHELL SIZE	A.09	B.06	A.09	D.09	E.07	F.02	F.02
9 WAY	30.8	25	12.4	22.2	13.0	20.5	11.4
15 WAY	39.2	33.3	12.4	30.5	13.0	28.8	11.4
25 WAY	53.1	47.0	12.4	44.3	13.0	42.5	11.4
37 WAY	69.5	63.5	12.4	60.7	13.0	59.1	11.4
50 WAY	67	61.1	15.4	58.3	15.8	56.3	14.1

### SHELL DIMENSIONS



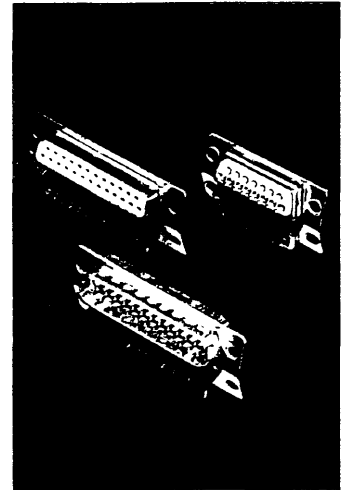
# LORLIN Standard 'D' Range

The Standard 'D' range connectors feature Turned Copper Alloy contacts with Gold over Nickel plating.

## SOLDER BUCKET

CONTACT		PART NUMBER	
TYPE	No.	Zinc Passivated	Tin & Dimple
MALE CONTACT	9	SDP9Z	SDP9ZTD
	15	SDP15Z	SDP15ZTD
	25	SDP25Z	SDP25ZTD
	37	SDP37Z	SDP37ZTD
	50	SDP50Z	SDP50ZTD
FEMALE CONTACT	9	SDS9Z	SDS9ZT
	15	SDS15Z	SDS15ZT
	25	SDS25Z	SDS25ZT
	37	SDS37Z	SDS37ZT
	50	SDS50Z	SDS50ZT

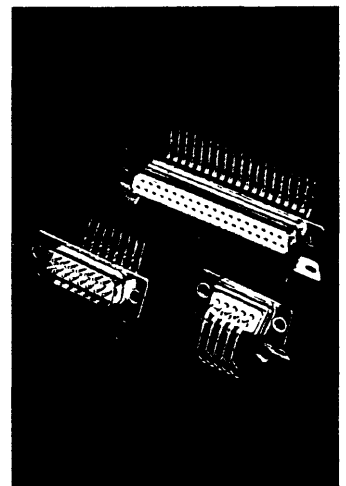
## SOLDER BUCKETS-



## 90° PCB PINS

CONTACT		PART NUMBER	
TYPE	No.	Zinc Passivated	Tin & Dimple
MALE CONTACT	9	SDP9R	SDP9RTD
	15	SDP15R	SDP15RTD
	25	SDP25R	SDP25RTD
	37	SDP37R	SDP37RTD
	50	SDP50R	SDP50RTD
FEMALE CONTACT	9	SDS9R	SDS9RT
	15	SDS15R	SDS15RT
	25	SDS25R	SDS25RT
	37	SDS37R	SDS37RT
	50	SDS50R	SDS50RT

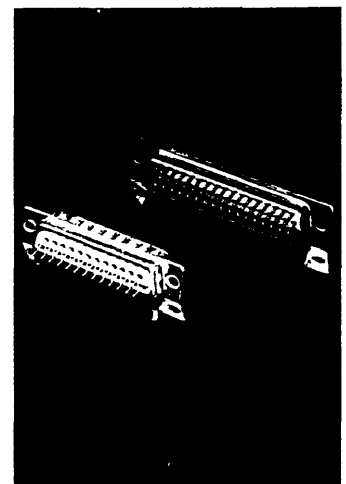
## 90° PCB PINS



## Straight PCB Pins (pin length 4.5mm)

CONTACT		PART NUMBER	
TYPE	No.	Zinc Passivated	Tin & Dimple
MALE CONTACT	9	SDP9Y	SDP9YTD
	15	SDP15Y	SDP15YTD
	25	SDP25Y	SDP25YTD
	37	SDP37Y	SDP37YTD
	50	SDP50Y	SDP50YTD
FEMALE CONTACT	9	SDS9Y	SDS9YT
	15	SDS15Y	SDS15YT
	25	SDS25Y	SDS25YT
	37	SDS37Y	SDS37YT
	50	SDS50Y	SDS50YT

## STRAIGHT PCB PINS

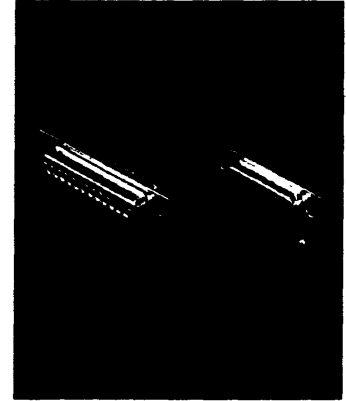


## WIRE WRAP PINS

The standard Wire Wrap pin length is 12mm and is suitable for 3 wire terminations. The pins are also available in a shorter pin length of 9mm which are suitable for 2 wire terminations. To order the 9mm version add -2 to the end of the order code, e.g. SDP25W-2.

CONTACT		PART NUMBER	
TYPE	No.	Zinc Passivated	Tin & Dimple
MALE CONTACT	9	SDP9W	SDP9WTD
	15	SDP15W	SDP15WTD
	25	SDP25W	SDP25WTD
	37	SDP37W	SDP37WTD
	50	SDP50W	SDP50WTD
FEMALE CONTACT	9	SDS9W	SDS9WT
	15	SDS15W	SDS15WT
	25	SDS25W	SDS25WT
	37	SDS37W	SDS37WT
	50	SDS50W	SDS50WT

WIRE WRAP PINS



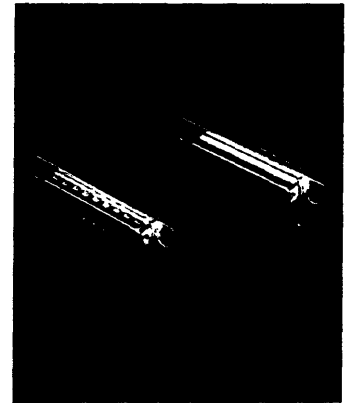
## CRIMP D

The Lorlin Crimp "D" Range connector bodies are available in two options, zinc passivated and Tin & Dimple steel shells. The Male and Female contacts are available on 500 and 10,000 piece reels.

### CONNECTOR BODY

CONTACT		PART NUMBER	
TYPE	No.	Zinc Passivated	Tin & Dimple
MALE CONTACT	9	CDP9	CDP9TD
	15	CDP15	CDP15TD
	25	CDP25	CDP25TD
	37	CDP37	CDP37TD
	50	CDP50	CDP50TD
FEMALE CONTACT	9	CDS9	CDS9T
	15	CDS15	CDS15T
	25	CDS25	CDS25T
	37	CDS37	CDS37T
	50	CDS50	CDS50T

CONNECTOR BODY



### CRIMP CONTACTS

RUNNING DIRECTION OF REEL	10,000 PIECES	
	AWG	PIN / SOCKET
Anticlockwise (STD)	20-26	CP20GL01 / CS20GL01
	24-28	CP24GL01 / CS24GL01
Clockwise	20-26	CP20GR01 / CS20GR01
	24-28	CP24GR01 / CS24GR01

CRIMP CONTACTS



CONTACT INSERTION/EXTRACTION TOOL CIET/2CHD/M

RUNNING DIRECTION OF REEL	500 PIECES	
	AWG	PIN / SOCKET
Anticlockwise (STD)	20-26	CP20SL01 / CS20SL01
	24-28	CP24SL01 / CS24SL01
Clockwise	20-26	CP20SR01 / CS20SR01
	24-28	CP24SR01 / CS24SR01

