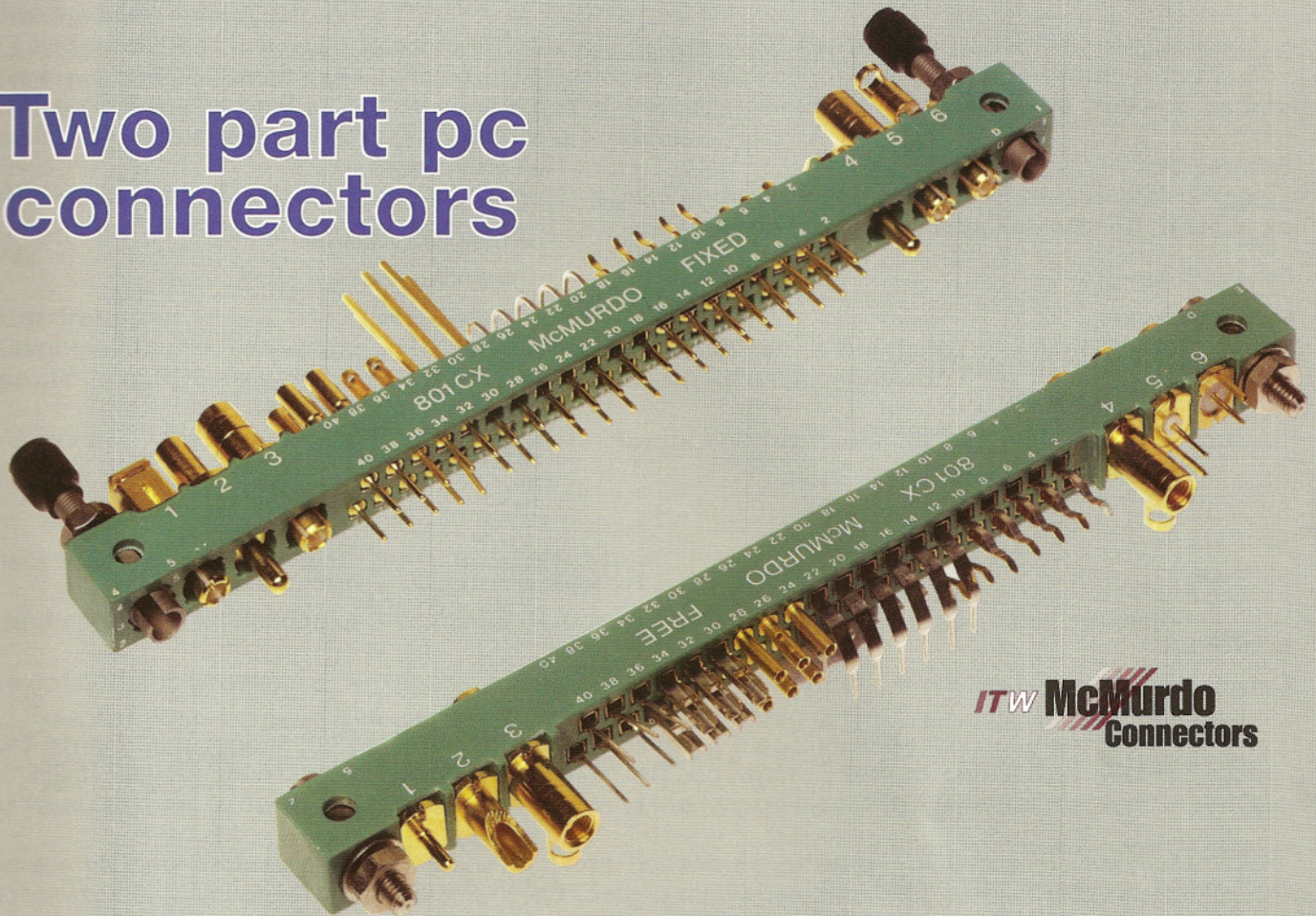


801/801CX SERIES

Two part pc connectors



The 801 and 801CX Series two part printed circuit board connector system utilising a 1.27mm (0.05in.) staggered pitch with 2.54mm (0.1in.) between rows has been designed to satisfy the latest requirements of various UK and international standards including BS9525 F0006, BS9525 F0012, BS9525 F0027, BS9525 F0041, NFC 93-424 (HE 801 and HE 807), MIL-C-55302 and approved to BS9525 N0001.

Features include:

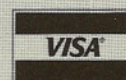
- Low and high frequency contacts.
- Low and high power contacts.
- 19 mould sizes up to 96 way l.f. and either 53 + 3 or 41 + 6 l.f./h.f.
- l.f. terminations include solder, p.c. straight and 90°, crimp and wire wrapping.
- h.f. terminations include solder straight and 90° preserved impedance, twisted cable and p.c. straight and 90°.
- All contacts removeable.
- Polarising facilities l.f. 36 position h.f. 36 or 16 positions.
- Jacking facilities, including 1/4 turn locks.
- Covers and pin shrouds.
- Qualification approval to BS9525 N0001.
- Additional random vibration with superimposed gunfire with low ns interrupt times.

Lane
ELECTRONICS

ASSEMBLING STOCKIST DISTRIBUTOR

F. C. LANE ELECTRONICS LIMITED

Slinfold Lodge, Stane Street, Slinfold,
Horsham, West Sussex RH13 0RN UK
T: 01403 790661 F: 01403 790849
E: sales@fclane.com



NO MINIMUM ORDER CHARGE • VISA & MASTERCARD ACCEPTED • NO CHARGE FOR CERTIFICATES OF CONFORMITY

TECHNICAL DATA

MATERIALS

Moulds

Plug contacts

Socket contacts

Retention clips

Guides

Cover

Cover cable clamp

Cover jackscrews

PLATING* (L.F. AND H.F. CONTACTS)

NG

*NOTE:

For replacement purposes previous plating codes, i.e. XG, SG, BO Series are still available.

MG

ELECTRICAL

Current

Individual Contact (in isolation)

All contacts simultaneously

Working Voltage sea-level (1013 mbar)

Proof voltage sea-level (1013 mbar)

8500m (300 mbar)

Contact resistance (initially)

(after conditioning)

Insulation resistance (initially)

(after conditioning)

Frequency Range

Impedance

Reflection Co-efficient

ENVIRONMENTAL

Environmental Classification:

Vibration Severity - General

Vibration Severity - Additional

No intermittancies measured when using an H.S.L.I. (High Speed Logic interrupt) detector with a trip threshold of 2 ns.

Bump Severity:

Shock Severity:

Acceleration Severity:

MECHANICAL

Mechanical Endurance

Engaging and Separation Force
(per contact pair)

Contact Retention (in moulding)

Contact holding force

LOW FREQUENCY

High grade copper alloy

High grade copper alloy

High grade copper alloy
Stainless steel or brass nickel plated

Glass-filled polycarbonate

Glass-filled nylon

Stainless steel

Hard Acid Gold

For applications in severe climatic environments
(BS9525 N0001)

For applications requiring conformity to
MIL-C-55302

HIGH POWER AND HIGH FREQUENCY

Diallyl-phthalate

High Power
Co-axial Plug (inner)
" Plug (outer)

High Power
Co-axial Socket (inner)
" Socket (outer)
Insulators

Brass
Brass
Beryllium Copper
Ph Bronze
Beryllium Copper
Brass
p.t.f.e.

At 85°C 1.5A max

At 25°C 3A max
At 85°C 1A max
At 125°C 0.3A max

10mΩ max

15mΩ max

—

—

—

250V d.c. or a.c. peak

1000V d.c. or a.c. peak

250V d.c. or a.c. peak

5GΩ min (at 500V)

100MΩ min

0-500MHz

50Ω nom

0.13 max (preserved impedance
10-500MHz)

High Power At 85°C 15A max

High Power At 25°C 25A max
At 85°C 10A max
At 85°C 0.5A max

Co-axial

High Power 1.5mΩ max
Co-axial inner 12mΩ max, outer 6mΩ max

High power 3.0mΩ max
Co-axial inner 16mΩ max, outer 8mΩ max

55/125/56

10Hz to 2000Hz, 0.75mm/98m/s² (10gn) duration 6h.

13.3Hz to 2000Hz random with superimposed sinusoids, duration
15min in each of 4 planes.

390m/s² (40gn), 4000 ±10 bumps.

981m/s² (100gn), for 6ms.

490m/s² (50gn).

500 operations

High Power 5N max, 1N min
Co-axial 10N max, 2N min

50N

High Power 0.4N min
Co-axial inner 0.15N min, outer 0.3N min

NOTE: Dimensions throughout this catalogue are shown in millimetres and are maxima unless stated otherwise.

Guiding System (See pages 8 to 11)

The 801 and 801CX Series of two part p.c. connectors incorporate a wide choice of polarising and guiding facilities. Since their original introduction these facilities have been extended and improved such that currently the following options are available:

(a) Hexagonal

I.f. and combined I.f./h.f. connectors with polarised guides which can be orientated to any one of six angular positions of 60°. This permits a choice of 36 positions for each connector. Connectors fitted with 72, 84 or 96 I.f. contacts have an additional central guide, normally plain but a polarised guide may also be fitted which in these sizes provides 216 polarising positions.

Alternatively, the complete range of connectors may be fitted with unpolarised guides, jack screws or quarter turn locking guides, the latter having four preferred polarising positions, namely F6, D2, C5, and A5.

(b) Quadrangular

Combined I.f./h.f. connectors with polarised guides which can be orientated to any one of four angular positions of 90°. This permits a choice of 16 positions for each connector.

Alternatively the complete range of connectors may be fitted with unpolarised guides or jack screws.

Connector Styles and Contact Cavity Identification

Style and contact identification is determined by the application of **Fixed** or **Free** to the connector.

Where option (a) is chosen, i.e., hexagonal guides are used the following definitions are applicable.

A **Fixed** connector is rack or mother board mounted, has **female guides** and male or female contacts. The I.f. contact cavity identification is by numbers from **right to left** and (where fitted) h.f. contact cavity identification is by numbers from left to right. This applies when viewing the mating face with the reference plane at the base.

A **Free** connector is cable or daughter board mounted, has **male guides** and male or female contacts. The I.f. contact cavity identification is by numbers from **left to right** and (where fitted) h.f. contact cavity identification is by numbers from right to left. This also applies when viewing the mating face with the reference plane at the base.

A **Coupler** connector replaces a Fixed connector in a daughter-to-daughter board mounted application has **female guides** and male or female contacts. The I.f. contact cavity identification is by numbers from **right to left** and (where fitted) h.f. contact identification is by numbers from left to right. This similarly applies when viewing the mating face with the reference plane at the base.

Connectors are supplied with guides polarised at positions A and 1 or quarter turn locking guides polarised at positions F and 6 in the unlocked condition.

The above are the preferred styles but connectors can also be supplied with **male** guides in **fixed** connectors and **female** guides in **free** connectors. These are **reverse** contact identification and are non-preferred.

Where option (b) is chosen, i.e. quadrangular guides are used in combined I.f./h.f. connectors the following definitions are applicable.

A **Fixed** connector is fitted with **male** I.f. and h.f. **contacts** and either male or female guides. The I.f. contact cavity identification is by numbers from **right to left** and h.f. contact cavity identification is by numbers from left to right. This applies as previously when viewing the mating face with the reference plane at the base.

A **Free** connector is fitted with **female** I.f. and h.f. **contacts** and either male or female guides. The I.f. contact cavity identification is by numbers from **left to right** and h.f. contact cavity identification is by numbers from right to left. This again applies when viewing the mating face with the reference plane at the base.

A **Coupler** connector is fitted and marked the same way as a **Fixed** connector. Guides are fitted polarised at positions A and 1.

When combined I.f./h.f. connectors are used all contacts in a connector half should be of the same gender.

MOULD SIZES

Low and Combined Low and High Frequency (Hexagonal Guiding)

The contact identification of mouldings as illustrated applies to **Free** male and female connectors viewed on the mating face in that all Free l.f. contacts are numbered from the left hand end and all Free h.f. contacts are numbered from the right hand end. **Fixed** connectors are a mirror image of the Free connector.

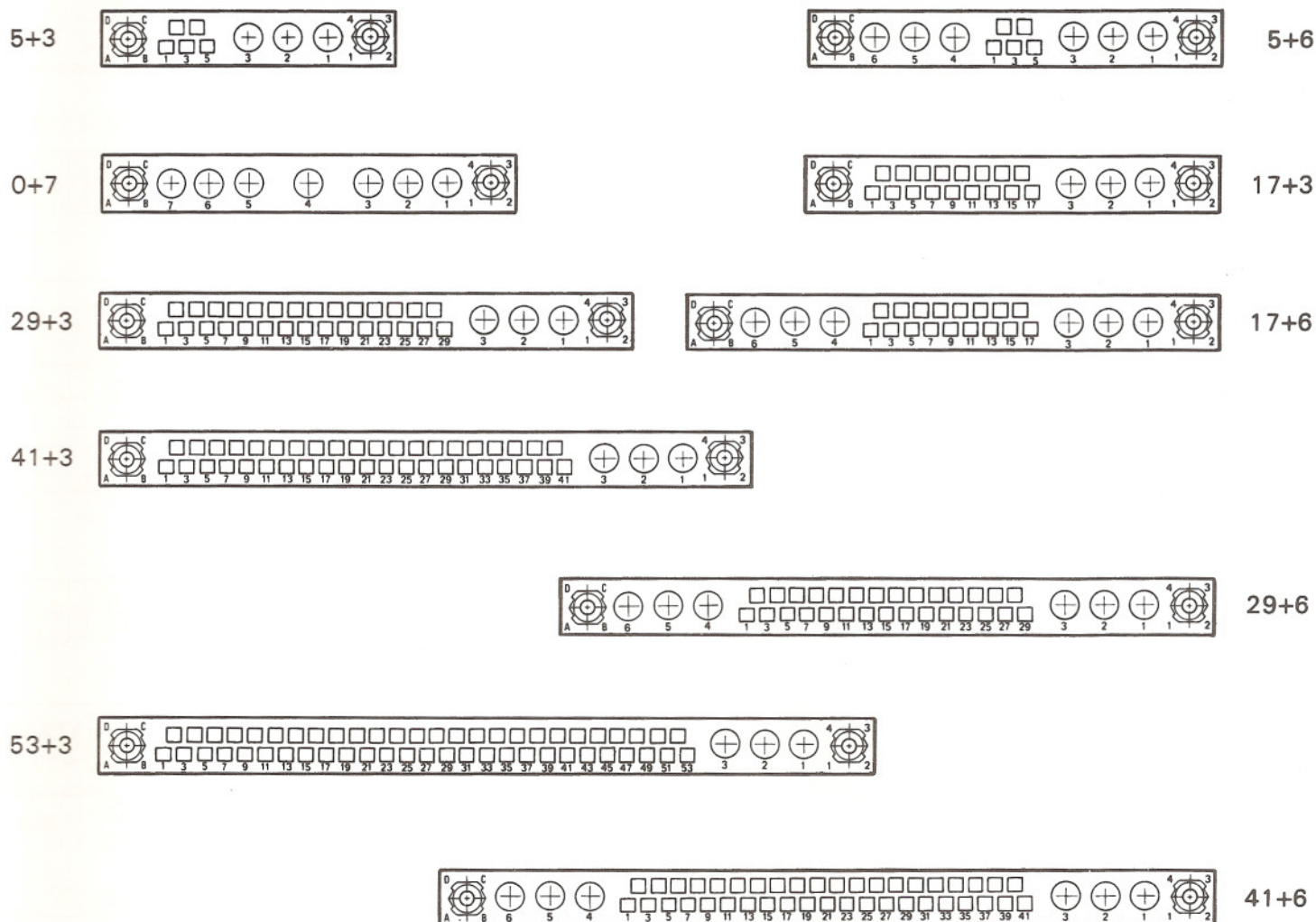
This is in accordance with BS9525 N0001 Issue 2.

17		5+3
29		5+6
33		0+7
41		17+3
		17+6
53		29+3
65		29+6
72		41+3
84		41+6
96		53+3

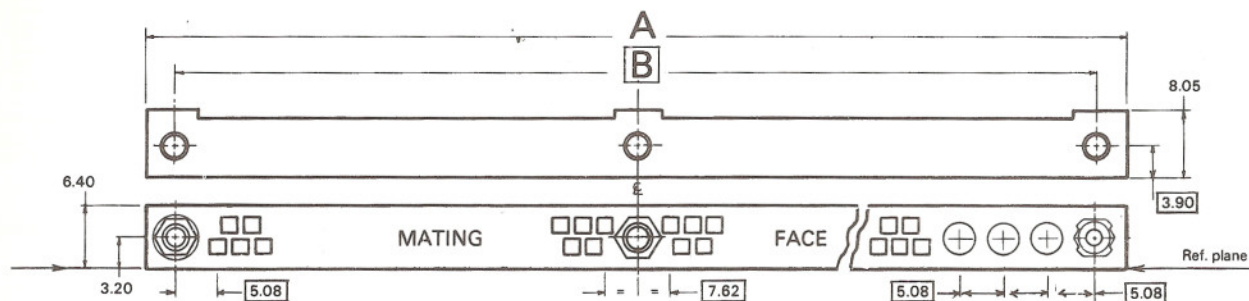
Combined Low and High Frequency (Quadrangular Guiding)

The contact identification of mouldings as illustrated applies to **Free** female connectors viewed on the mating face in that l.f. contacts are numbered from the left hand end and h.f. contacts are numbered from the right hand end. **Fixed** male connectors are a mirror image of the Free connector.

This is in accordance with BS9525 F0012, NFC 93-424 (HE 807) and MIL-C-55302.



Dimensions (All moulds)



	17	29	33	41	53	65	72	84	96
	5+3	17+3 5+6 0+7		29+3 17+6	41+3 29+6	53+3 41+6			
A	38.5	53.7	58.8	69.0	84.2	99.5	114.7	129.9	145.2
B	30.48	45.72	50.80	60.96	76.20	91.44	106.68	121.92	137.16

LOW FREQUENCY TERMINATIONS

Male (M)

YM
W
Z
SM
Y Y4 L = 4.0
DM

Male and female contacts with tails at 90° direct mounting on to p.c.b. Suitable for individual or flow soldering.

BS Termination Style 'L'

Male and female contacts with 0.6mm (0.025") square miniwrap tails suitable for up to 3 wraps of 30 a.w.g. wire.

BS Termination Style 'W'

Male and female contacts with solder tails suitable for wire dia. up to 1 mm.

BS Termination Style 'S'

Crimp type male and female contacts for wire 22-26 a.w.g.

BS Termination Style 'C'

Male and female contacts with p.c. straight tails for direct mounting onto p.c.b.'s. Suitable for individual or flow soldering.
YCMO an alternative to YBMO with turned termination.

BS Termination Style 'T'

Male and female contacts for mounting edge-on double-sided p.c.b.'s. The centre of the board is on the centre line of connector.

BS Termination Style 'V'

Female (F)

YF
WFO
WFO6 L = 6.0
ZFO
SMF
YBMO L = 4.5 YBM4 L = 4.0
YCMO L = 5.6
DFM

POWER TERMINATIONS

Male (M)

MH1
MH2

Male and female power contacts with solder termination. Suitable for wire dia. up to 1.83mm (size 14).

Male and female power contacts with straight p.c.b. termination. Current rating 5A @ 85°C.

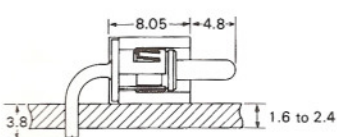
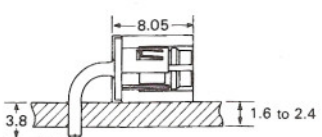
Female (F)

FH1
FH2

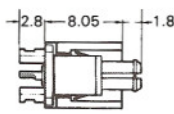
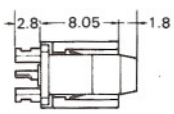
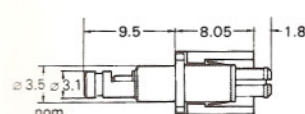
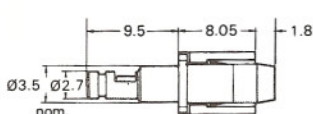
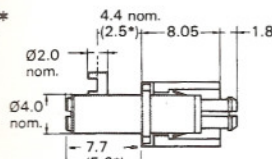
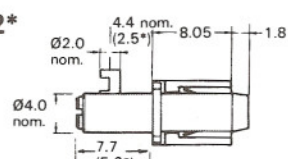
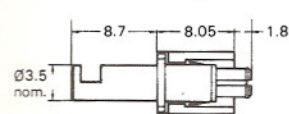
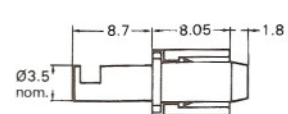
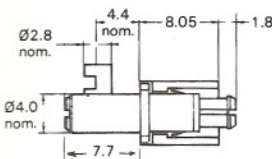
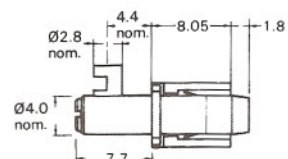
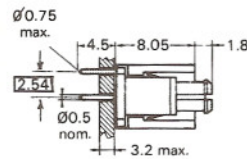
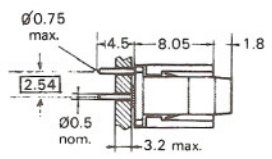
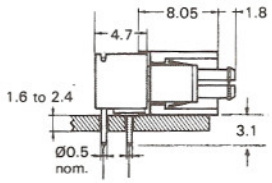
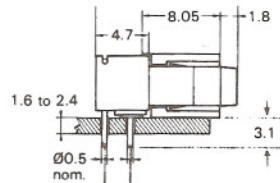
POWER TERMINATIONS

Male (M)

Female (F)

MH3 	<p>Male and female power contacts with 90° p.c.b. terminations. Current rating 5A @ 85°C.</p>	FH3 
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HIGH FREQUENCY TERMINATIONS

M1 	<p>Male and female contacts with two soldering posts for twisted braid screen. For chassis or free connector assembly.</p>	F1 
M2 	<p>"Preserved impedance" male and female contacts. Suitable for chassis, or free connector assembly.</p> <p>M2/F2 for RG178 and RG196 Flexible Cables</p>	F2 
M4 M42* 	<p>"Preserved impedance" male and female contacts with 90° cable entry. Suitable for chassis, or free connector assembly.</p> <p>M4, M42/F4, F42 for RG178 and RG196 Flexible Cables</p>	F4 F42* 
M6 	<p>"Preserved impedance" male and female contacts. Suitable for chassis, or free connector assembly.</p> <p>M6/F6 for UT85 semi-rigid Cable</p>	F6 
M46 	<p>"Preserved impedance" male and female contacts, with 90° cable entry. Suitable for chassis, or free connector assembly.</p> <p>M46/F46 for UT85 semi-rigid Cable</p>	F46 
CM 	<p>Male and female contacts with p.c. tails for direct mounting on to p.c.b.</p>	CF 
M3 	<p>Male and female contacts with tails at 90° for direct mounting on to p.c.b.</p>	F3 

GUIDES FOR L.F. AND L.F./H.F. CONNECTORS

Hexagonal guides may be fitted to l.f. or combined l.f./h.f. connectors. Quadrangular guides can only be fitted to combined l.f./h.f. connectors and are prefixed 'C'.

Hexagonal & Quadrangular guides do not intermate.

When ordering guides which are available in stainless steel add suffix 'S' to part number (see order codes page 16).

Connectors are normally supplied with polarising in position A & 1 except ¼ turn locking hexagonal guides which are polarised in position F & 6 in the unlocked position.

* —GUIDE STYLE— **

● - HEXAGONAL STAINLESS
BS CODES 0 AND 4

○ - HEXAGONAL NICKEL PLATED
BS CODES 1 AND 5

□ - QUADRANGULAR NICKEL
PLATED

GUIDE REF. NOS.

00 — BS9525 N0001 Iss. 2
000/000 — NF-C93-424 (1981)
Stainless Steel/Brass

Male Polarised

<p>A●○ □CA</p> <p>Vertical</p> <p>50 317/117</p>	<p>D●○ □CD</p> <p>90° P.C. Front Fixing</p> <p>64 301/101 323/123</p>	<p>AL●○ □CACL</p> <p>Floating</p> <p>51</p>	<p>H●○ □CH</p> <p>Edge P.C.</p> <p>74 315/115</p>
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Male Polarised (Centre Only)

<p>AM●○</p> <p>Vertical</p> <p>50 313/113</p>	<p>HM●○</p> <p>Edge P.C.</p> <p>74 314/114</p>		<p>J●○ □CJ</p> <p>Vertical</p> <p>10 412/212 215</p>
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Female Polarised

<p>J5●</p> <p>Vertical</p> <p>11</p>	<p>DJ●○ □CDJ</p> <p>90° P.C. Front Fixing</p> <p>27</p>	<p>I●○ □CI</p> <p>90° P.C. Rear Fixing</p> <p>25 406/206 214</p>	<p>L●○ □CL</p> <p>Floating</p> <p>15 403/203 216</p>
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Female Polarised (Centre Only)

<p>JM●○</p> <p>Vertical</p> <p>10 402/202</p>	<p>JM5●○</p> <p>Vertical</p> <p>11</p>	<p>DJM●○</p> <p>90° P.C. Front Fixing</p> <p>27</p>	<p>IM●○</p> <p>90° P.C. Rear Fixing</p> <p>25 406/206</p>
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Male Unpolarised

<p>B ● ○ □CB</p> <p>62 318/118</p>	<p>E ● ○ □CE</p> <p>71 302/102</p>	<p>BL ● ○ □CBCL</p> <p>63</p>	<p>G ● ○ □CG</p> <p>79 314/114</p>
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Male Unpolarised (Centre Only)

<p>BM ● ○</p> <p>62 313/113</p>	<p>GM ● ○</p> <p>79 314/114</p>		<p>JU ●</p> <p>23</p>
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Female Unpolarised

Female Unpolarised

<p>JU5 ●</p> <p>23</p>	<p>DJU ●</p> <p>90° P.C. Front Fixing</p>	<p>IU ●</p> <p>90° P.C. Rear Fixing</p> <p>38</p>	<p>LU ●</p> <p>24</p>
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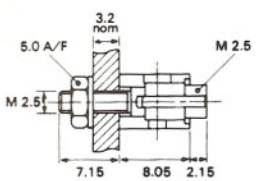

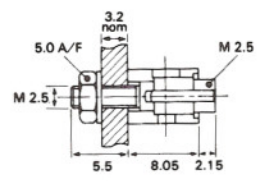


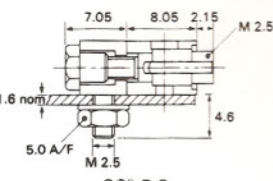


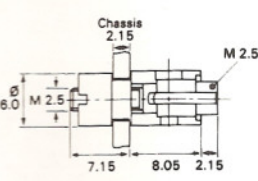
Female Unpolarised (Centre Only)

<p>JZ ●</p> <p>23</p>	<p>JZ5 ●</p> <p>23</p>	<p>DJZ ●</p> <p>90° P.C. Front Fixing</p>	<p>IZ ●</p> <p>90° P.C. Rear Fixing</p> <p>38</p>
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Male Jacking Fixed Unpolarised



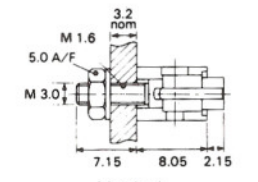


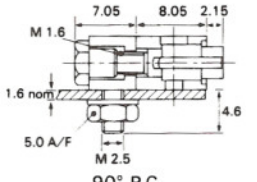

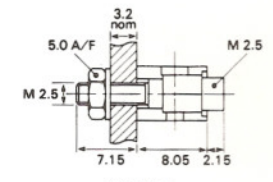

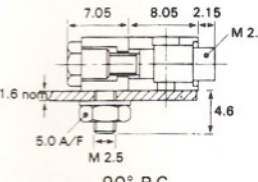
<p>C ● ○ □CC</p> <p>53 319/119</p>	<p>F ● ○ □CF</p> <p>66 303/103</p>	<p>O ● ○ □CO</p> <p>76 316/116</p>	
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Female Jacking Fixed Polarised

R-1   CR-1  17/18 Vertical	R1-5   17 Vertical	N-1   CN-1  30 90° P.C. Rear Fixing	S-1   CS-1  Floating
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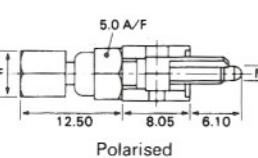


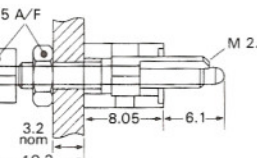



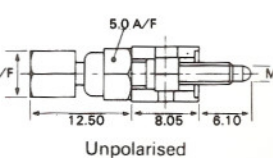


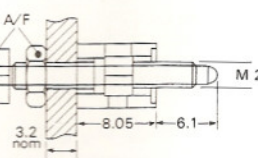

Female Jacking Fixed Polarised (Cover)

Female Jacking Fixed Unpolarised

R-2   CR-2  13 210 Vertical	N-2   CN-2  28 211 90° P.C. Rear Fixing	RU-1   16 Vertical	NU-1   29 90° P.C. Rear Fixing
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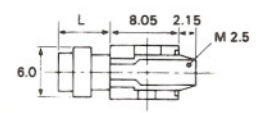


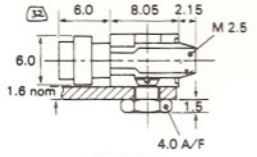

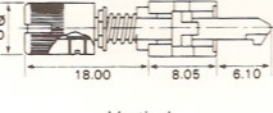

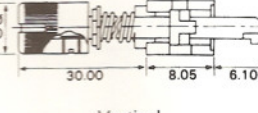
Male Jacking Rotating Polarised

Male Jacking Rotating Unpolarised


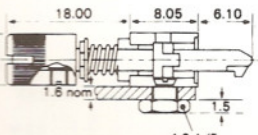

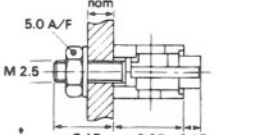

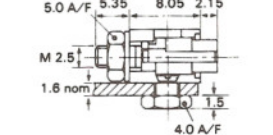

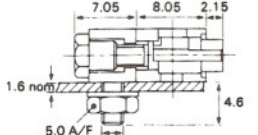
V-1   CV-1  56  Polarised	V-1   54/56  3.2 nom 10.3	W-1   CW-1  55  Unpolarised	W-1   55/58/59  3.2 nom 10.3
--	---	---	--

Female Jacking Rotating Unpolarised

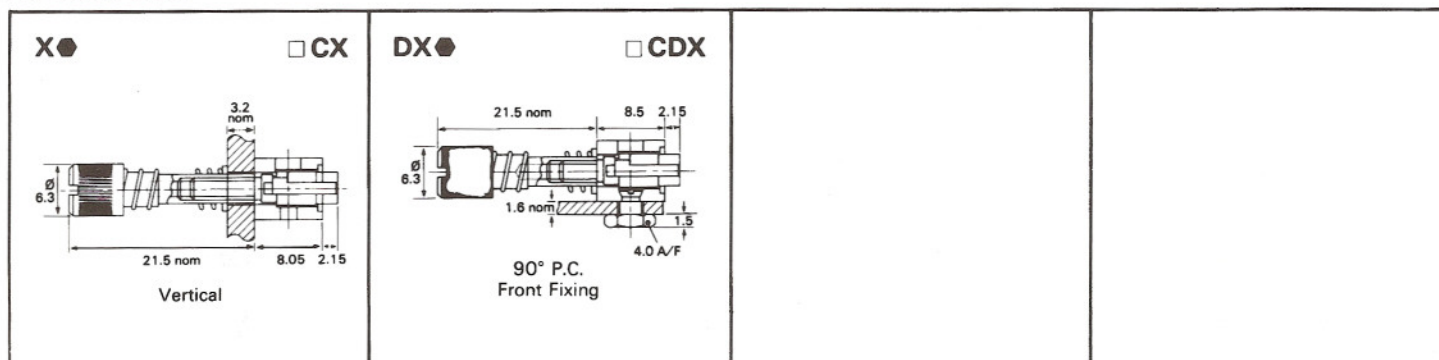
Male 1/4 Turn Locking

CK   CK L = 6.3 CK5   CK5 L = 4.9  19 (CK) 20 (CK5) 413/213 Vertical	DCK   CDCK  32 90° P.C. Front Fixing	XT   61 327 Vertical	XTL   60 Vertical
--	---	--	---

Female 1/4 Turn Locking

DXT   69 90° P.C. Front Fixing	JT   22 422 Vertical	DJT   35 90° P.C. Front Fixing	IT   34 90° P.C. Rear Fixing
---	---	--	---

Extender Card



GUIDE INTERMATABILITY CHART

● Preferred.

☆ Will mate but non preferred.

NOTE: h.f. guides prefixed 'C' have same intermatability patterns.

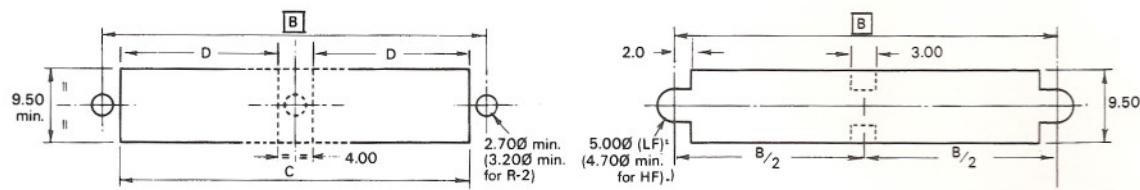
ies prefix C have same intermatibility patterns.

	A	AL	B	BL	C	D	E	F	G	H	I	IU	IT	J	J5	JU	JU5	JT	DJ	DJU	DJT	CK/CK5	DCK	L	LU	N-1	NU-1	N-2	O	R-1	R1-5	RU-1	R-2	S-1	V-1	W-1	XT/XTL	DXT	MK 2 COVER	X	DX		
A											●	☆	●	●				☆	●	☆			●				☆					☆									●	●	
AL											●	☆	●	●				☆	●	☆			●		●		☆					☆									●	●	
B											☆	●	☆	☆	☆	●	●	☆	☆	●	☆			☆	●		☆					☆									●	●	
BL											☆	●	☆	☆	☆	●	●	☆	☆	●	☆			☆	●		☆					☆									●	●	
C																						●	●																				
D											●	☆	●	●				☆	●	☆			●		●			☆					☆								●	●	
E											☆	●	☆	☆	☆	●	●	☆	☆	●	☆			☆	●		☆					☆								●	●		
F																						●	●																				
G											☆	●	☆	☆	☆	●	●	☆	☆	●	☆			☆	●		☆					☆								●	●		
H											●	☆	●	●				☆	●	☆			●		●		☆					☆								●	●		
I	●	●	☆	☆		●	☆		☆	●																																	
IU			●	●		●				●																																	
IT	☆	☆	☆	☆		☆	☆		☆	☆																																	
J	●	●	☆	☆		●	☆		☆	●																																	
J5	●	●	☆	☆		●	☆		☆	●																																	
JU			●	●		●			●																																		
JU5			●	●		●			●																																		
JT	☆	☆	☆	☆		☆	☆		☆	☆																																	
DJ	●	●	☆	☆		●	☆		☆	●																																	
DJU			●	●		●			●																																		
DJT	☆	☆	☆	☆		☆	☆		☆	☆																																	
CK/CK5					●			●																																			
DCK					●			●																																			
L	●	●	☆	☆		●	☆		☆	●																																	
LU			●	●		●			●																																		
N-1																																											
NU-1																																											
N-2	☆	☆	☆	☆		☆	☆		☆	☆																																	
O																																											
R-1																																											
R1-5																																											
RU-1																																											
R-2	☆	☆	☆	☆		☆	☆		☆	☆																																	
S-1																																											
V-1																																											
W-1																																											
XT/XTL																																											
DXT																																											
MK 2 COVER																																											
X	●	●	●	●		●	●		●	●																																	
DX	●	●	●	●		●	●		●	●																																	

MOUNTING DETAILS

Mounting details for Chassis Mounted Plug or Socket

Chassis cut-outs for 801 and 801 CX



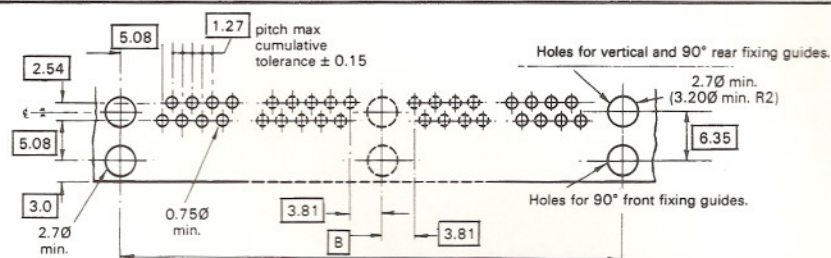
This cut out is used for vertical fixed guides.

This cut out is used for floating guides.

Centre detail for 72, 84 and 96 way connectors only.

Mounting details for Printed Circuit Board Plug or Socket (Straight and 90° tails)

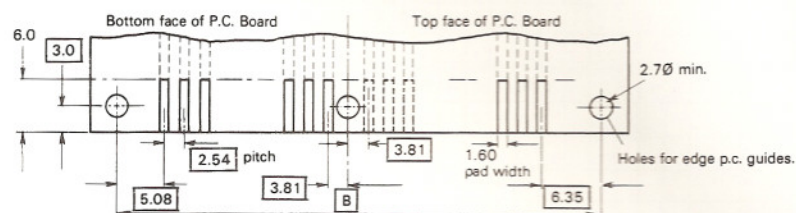
801



Centre detail for 72, 84 and 96 way connectors only.

Mounting details for Printed Circuit Board Plug or Socket (Edge mounting)

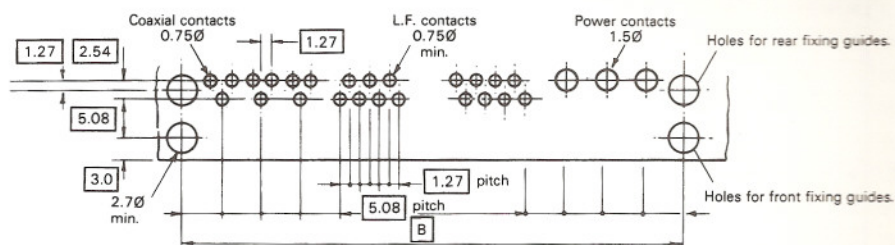
801



Centre detail for 72, 84 and 96 way connectors only.

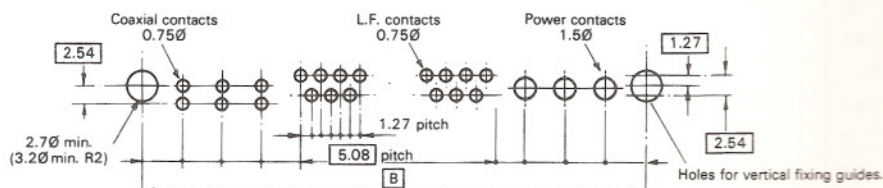
Mounting details for Printed Circuit Board Plug and Socket (90° tails)

801 CX



Mounting details for Printed Circuit Board Plug and Socket (Straight tails)

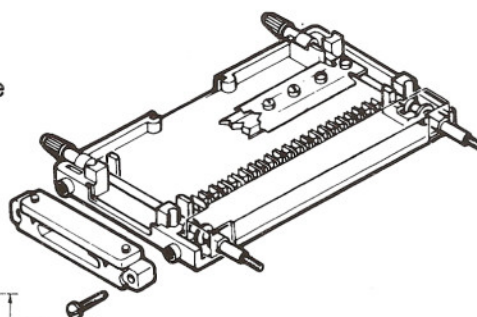
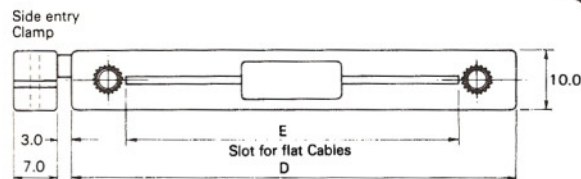
801 CX



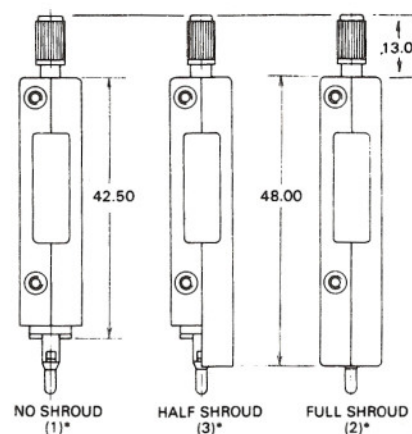
	17 5+3	29 17+3 5+6 0+7	33	41 29+3 17+6	53 41+3 29+6	65 53+3 41+6	72	84	96
B	30.48	45.72	50.80	60.96	76.20	91.44	106.68	121.92	137.16
C MIN	25.90	41.10	46.26	56.40	71.60	86.90	102.10	117.30	132.60
D MIN							49.05	56.65	64.30

COVERS

For use with Guides N2, R2, CN2, CR2 see intermatability chart (page 11)



() * = BS Shrouding Style.



Maximum dimensions	17*	29*	33	41*	53*	65*
D	42.50	57.70	63.00	73.00	88.20	103.50
E	25.80	41.00	46.10	56.30	71.50	86.80

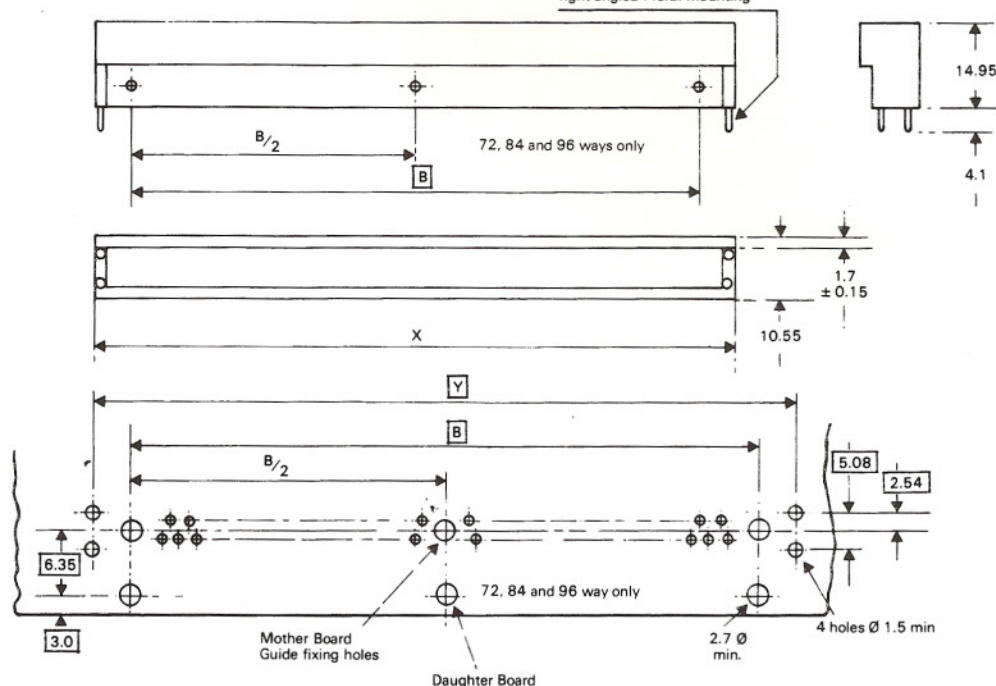
*Including equivalent combined l.f./h.f. sizes (see order codes page 16)

The Mk 2 connector covers offer the advantages of the following facilities:

1. Top (T) or side (S) cable entry (with cable clamp).
2. Flat cable top entry.
3. Full pin shroud/partial pin shroud for p.c.b. interfacing/no pin shroud, as required.
4. May be stacked on a 10.16mm pitch.
5. May be used with l.f. and h.f. contacts.

PIN SHROUDS (BS Style A5117 Not approved)

NOTE:
Pegs may be removed for right angled P.C.B. mounting



SIZE	B	X	Y
17 WAY	30.48	42.65	40.64
29 WAY	45.72	57.85	55.88
33 WAY	50.80	62.95	60.96
41 WAY	60.95	73.15	71.12
53 WAY	76.20	88.35	86.36
65 WAY	91.44	103.65	101.60
72 WAY	106.68	118.85	116.84
84 WAY	121.92	134.05	132.08
96 WAY	137.16	149.35	147.32

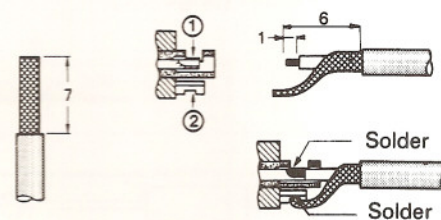
For p.c.b. mounting, when cross holes cannot be utilised for attachment of pin protector to body, pegs to be inserted into p.c.b. and secured by applying sufficient heat and pressure to spread end of pegs.

Note: Each pin shroud is supplied as a kit comprising the mould, 2 longer replacement screws and fitting instructions.

TERMINATION OF CO-AX CABLES

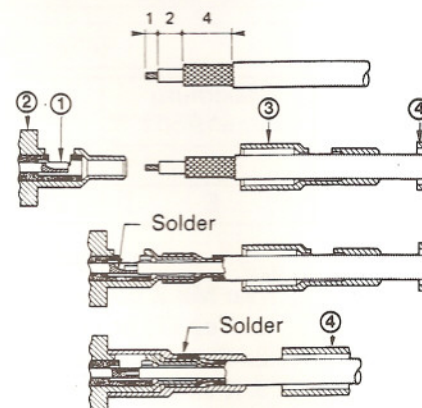
TERMINATION STYLE M1 AND F1

- 1 Prepare Cable as shown
- 2 Solder the Core of the Cable to the Inner Contact ① of the Connector
- 3 Solder the Screen of the Cable to the Connector Body ②



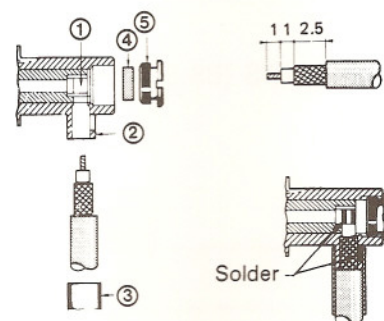
TERMINATION STYLE M2 AND F2

- 1 Prepare Cable as shown
- 2 Fit Heat Shrink Sleeve ④ and Cap ③ over Cable
- 3 Fit Core of Cable into Inner Contact ① and Cable Screen over Outer Connector Body ②
- 4 Solder the Cable Core to Contact ①
- 5 Push Cap ③ over Cable Screen
- 6 Solder Cap ③ and Cable Screen
- 7 Shrink Sleeve ④ over Cap ③ and Cable



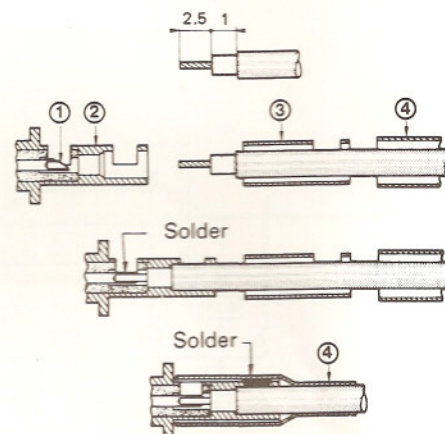
TERMINATION STYLE M4, M42 AND F4, F42

- 1 Prepare Cable as shown
- 2 Fit Heat Shrink Sleeve ③ over Cable
- 3 Push Cable fully into Connector Solder Cable Core to Inner Contact ①, and Cable Screen to Connector Body ②
- 4 Push Insulator Pad ④ into Back of Connector Body, and assemble Retaining Screw ⑤
- 5 Shrink Sleeve ③ over Connector and Cable



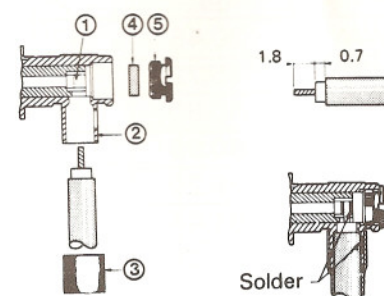
TERMINATION STYLE M6 AND F6

- 1 Prepare Cable as shown
- 2 Fit Heat Shrink Sleeve ④ and Sleeve ③ over Cable
- 3 Push Cable into Body ②
- 4 Solder Cable Core to Inner Contact ①
- 5 Push Sleeve ③ over Cable until it is against Shoulder of Body ② and Solder
- 6 Shrink Sleeve ④ over Connector and Cable



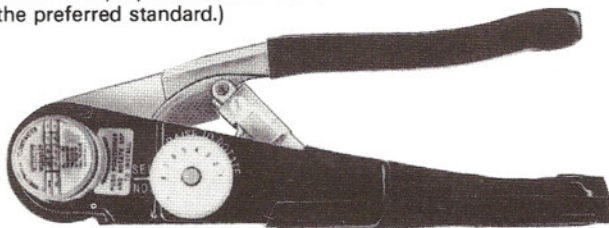
TERMINATION STYLE M46 AND F46

- 1 Prepare Cable as shown
- 2 Fit Heat Shrink Sleeve ③ over Cable
- 3 Push Cable fully into Connector Solder Cable Core to Inner Contact ① and Cable Outer to Connector Body ②
- 4 Push Insulator Pad ④ into Back of Connector Body, and assemble Retaining Screw ⑤
- 5 Shrink Sleeve ③ over Connector and Cable



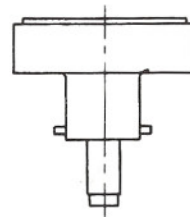
TOOLS

Hand Crimp Tool. M22520/2-01
8 Indent Die Set. (Replaces MS-3198-1
and is the preferred standard.)



CRIMP TOOL POSITIONER

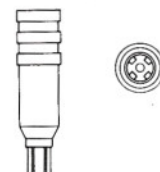
McMurdo
Part No.
MP 5320.



Contact Style	Wire Size/Crimp Tool Setting			Wire Strip Length
	22 A.W.G.	24 A.W.G.	26 A.W.G.	
S (Non BS style)	6	—	—	4.0
SM	6	5	4	4.0
SF (Non BS style)	6	—	—	4.0
SMF	5	4	3	4.0



Removal Tool for
Male and Female Contacts
Order Code: MP 5499



Removal Tool for Co-axial
and High Power Contacts
Order Code: MP 5302

QUALITY ASSURANCE

Indent check inspection kit available from Erma-Buchanan part number M22520/3-1 (in Service Gauge).

ORDER CODES

	1	2	3	4	5	6	7	8	9	10	
(a)	801	M	72	FREE	YM	NG	D	(E)	(Not l.f.)	(Not l.f.)	Number and Type of h.p. contacts
(b)	801 CX	F	41+3	FIXED	YBMO	NG	JS	(Not h.f.)	2M3	1 FHI	Number and Type of h.f. contacts
(c)	801 CX	F	41+3	(Not used)	YBMO	FG	CJ	(Not h.f.)	2M3	1 FHI	Centre Guide Type

											Guide Type
											Contact plating
											Type of l.f. contacts
											Marking
											Number of contacts
											Gender of moulding
											Series Type

Example of relationship McMurdo Part Nos. to BS9525 N0001 Iss 2 Part Nos.

BS Part No.	B5101	072	M	L	64	1
McMurdo Definition No.	4	3	2	5	7 (8)	7 (8)
Catalogue Reference - Page	3	4 and 5	3	6	3 and 8 to 10	

DEFINITION

- Series type: (a) 801 l.f. Hexagonal Guides (BS9525 N0001 Approved)
(b) 801 CX Combined l.f./h.f. Hexagonal Guides (BS9525 F0027 Style)
(c) 801 CX Combined l.f./h.f. Quadrangular Guides (BS9525 F0012 Style)
- Gender of moulding: M takes male l.f. contacts F takes female l.f. contacts
Note: Hexagonal guide styles, all contacts should be the same gender.
Quadrangular guide styles, h.f. and high power contacts may be the same or opposite gender.
- Number of contacts: See page 4 and 5 for Mould sizes
- Marking: See page 3 for definition of fixed or free (BS 9525 N0001 ISS2. B5100 = fixed, B5101 = free)
Note: For Quadrangular guided combined l.f./h.f. connectors it is not necessary to identify fixed or free as gender of moulding determines marking.
- Type of l.f. contact: See page 6 for termination styles
- Contact plating: NG, FG or MG See Technical Data page 2.
- Guide type: See page 3 and pages 8 to 10
- Centre Guide type: 72, 84 and 96 way l.f. connectors only
Note: For guide styles available in stainless steel ADD suffix 'S' to part no. e.g. JS (ES)
- Number and type of h.f. contacts (supplied loose): See page 7
- Number and type of High Power Contacts (supplied loose): See page 7

ACCESSORIES

HOOD ORDER CODES

Mould Size	h.f.	5+3	17+3 5+6 0+7		29+3 17+6	41+3 29+6	53+3 41+6
	l.f.	17	29	33	41	53	65
Full Pin Shroud		5401/3	5402/3	5403/3	5404/3	5405/3	5406/3
Half Pin Shroud*		5401/2	5402/2	5403/2	5404/2	5405/2	5406/2
No Pin Shroud		5401/1	5402/1	5403/1	5404/1	5405/1	5406/1

For Top entry ADD suffix T e.g. 5405/3/T For Side entry ADD suffix S e.g. 5404/3/S

For use with quadrangular guided connectors add prefix CX e.g. CX 5402/3/T

*For reversed version of Half Pin Shroud illustrated on page 13 ADD suffix 'A' e.g. 5403/2A/T.

SHROUD KITS

SIZE	ORDER CODE
17 WAY	MP5335 - 17
29 WAY	MP5335 - 29
33 WAY	MP5335 - 33
41 WAY	MP5335 - 41
53 WAY	MP5335 - 53
65 WAY	MP5335 - 65
72 WAY	MP5335 - 72
84 WAY	MP5335 - 84
96 WAY	MP5335 - 96

FOR TOOL ORDER CODES REFER TO PAGE 15

McMurdo Connectors reserve the right to change the specification without notice



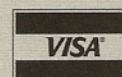
ASSEMBLING STOCKIST DISTRIBUTOR

F. C. LANE ELECTRONICS LIMITED

Slinfold Lodge, Stane Street, Slinfold,
Horsham, West Sussex RH13 0RN UK

T: 01403 790661 F: 01403 790849

E: sales@fclane.com



NO MINIMUM ORDER CHARGE • VISA & MASTERCARD ACCEPTED • NO CHARGE FOR CERTIFICATES OF CONFORMITY