

SIAL

The hybrid connector for use with thermal clamps

SIAL is a modular high density interconnection system that has the capability to mix signal and coax contacts. The contact technology developed for this connector allows the use of thermal clamps. With 3 sizes of modules, the SIAL connectors provide the arrangement needed, from 18 to 392 contacts. In a staggered grid pattern (2.54 x 1.905 [.100x.075]), this connector houses 5 rows of contacts in a low profile board to board format. Additionally, SIAL connectors provide shielding on both plug & receptacle, which allows the dissipation of all the electrical charge while mating.

The concept

3 standard modules are available with 18, 58 and 98 signal contacts on 5 rows. These allow arrangements up to 392 contacts. The various modules are maintained in a metallic shell, allowing both protection of male contacts on the plug, and a mix of signal and coax modules.

Compatible with the use of thermal clamps

Its standard contact technology, already used in the monolithic SIHD connector, permits the lateral displacement (± 0.25 [.010]) of the pin into the socket without generating any stress on the contact termination on the PCB.

This feature allows the use of thermal clamps to keep the daughter board in position after mating, as well as the dissipation of energy generated by the components on the board from the heat sink (thermal drain) to the cold wall (liquid cooled) or to the chassis. The locking of the thermal clamps provides the lateral movement of the plug into the receptacle. The SIAL allows this lateral displacement of ± 0.25 [.010] without creating stress on the solder joints or on the contact area.

A complete range for test, programming, maintenance

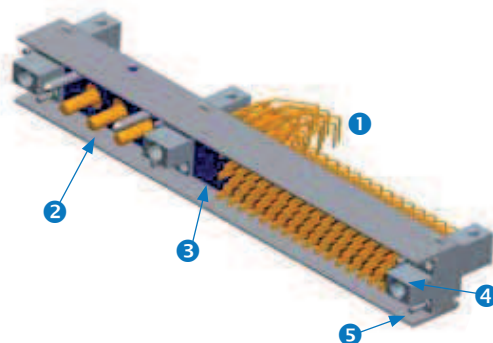
E = Female receptacle for mother board

F = Male plug for daughter board

T = Female test receptacle for daughter board

S = Male test plug

P = Female extender receptacle



QUICK SELECTION GUIDE

Signal contacts ①	Coax contacts ②	Modules ③	Fittings & Guiding ④	Keying ⑤
FEMALE for receptacles 	COAX SIZE 12 COAX SIZE 16 3 COAX / MODULE 5 COAX / MODULE 	NUMBER OF SIGNAL CONTACTS 018, 036, 058, 076, 098, 116, 156, 196, 214, 254, 312, 370, 392 NUMBER OF COAX CONTACTS Size 12: 03, 06, 09, 12 Size 16: 05, 10	FITTING FEMALE SOCKET GUIDE MALE GUIDE PIN 	5 polarizing pins / connector
PAGE 85 PAGE 84	PAGE 86	PAGE 88	PAGE 89	PAGE 89

The SIAL series serves various markets, including:



Commercial avionics & airframe



Military avionics & airframe

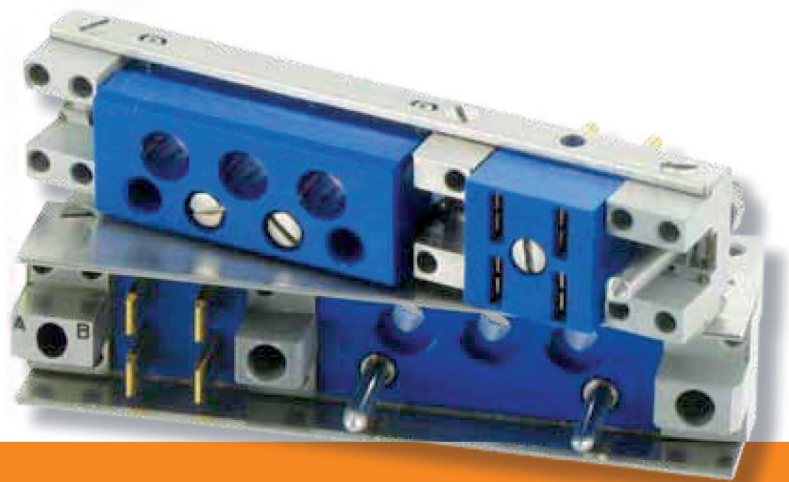


Space

All dimensions are given for information only and are in mm [inch], except as otherwise specified

SIAL Series

Lateral displacement compatibility



SIAL Series

Table of contents

SIAL product range	80
Signal contacts	84
Special contacts	86
Signal modules	88
Hybrid modules	88
Fittings and guiding	89
Keying	89
Realignment capability	89
Mating sequence	89
SIAL signal version typical arrangements	90
SIAL signal version layouts	92
SIAL coaxial version typical arrangements	93
SIAL coaxial version layouts	94
Tooling	96

The SIAL series serves various **markets**, including:



Commercial Avionics
& Airframe



Military Avionics & Airframe



Space

SIAL>>> GENERAL SPECIFICATIONS

MEDIUM
DENSITY

- Modular connector mixing signal and coax contacts in many arrangements
- Lateral displacement capability allowing the use of thermal clamps: $\pm 0.25 [\pm .010]$
- Complete range for test, programming and maintenance
- Designed for severe mechanical environments
- 2.54 [.100] staggered grid (1.27 [.050] offset), 1.905 [.075] between rows

Main characteristics

- Medium density: 0.14 cts/mm² [90 cts/inch²]
- 13 arrangements on 5 rows of contacts, from 18 to 392 signal contacts
- 5 hybrid arrangements mixing coax and signal contacts
- 3 A per signal contacts / DWV: 750 Vrms
- Lateral rails to protect the male contacts from external damage
- Repairable contacts for easy maintenance

Markets



Main applications



Terminations



Recommended configurations



Standard

MIL-DTL-55302

CECC 75101-012

How to order

E	Female receptacle
F	Male plug
T	Female test receptacle
S	Male test plug
P	Female extender receptacle
Connector type	

C	Conductive fitting Standard version For E and F types
Blank	Non conductive fitting Test versions and specifics
Conductivity of the fitting	

Size	Male plug	Female receptacle
Size 12	KX	KT
Size 16	NX	NT
No coaxial contact	Blank	
Coax module		

000	Standard
001	ASL F or E with 5 right & left coax
010	ASL E with 2.76 _{max} mm PCB thickness
011	ASL E with heatshrink sleeve
100	ASL S and E 392 screw locking system
102	ASL F with Y01 contacts without lateral displacement
103	ASL S Y04 straight/flex locking system
200	ASL 39758119 space customer specification
300	ASL MA3401 space customer specification
500	ASL F or E with 5 coax after signal contacts
502	ASL F or E with 5 coax before signal contacts
Deviation	

ASL	-	---	---	-	--	---	---	--	Blank: Tin lead LF: Lead free
									Termination plating

Number of signal contacts (see page 88)		
Signal contacts only		Signal & coaxial contacts
018	156	018 (+3)
036	196	058 (+3)
058	214	098 (+3)
076	254	058 (+5)
098	312	156 (+10)
116	370	196 (+5)
	392	254 (+5)

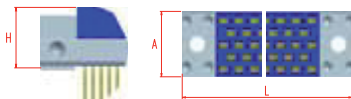
Signal contacts (see pages 84 to 85)		
	Male contact	Female contact
E		Y09, Y19
F	Y01, Y02, Y04, U04, U05, U06, U07, U08	
T		Y01, Y02, Y04, U04, U05, U06, U07, U08
P		Y01, Y02, Y04, U04, U05, U06, U07, U08
S	Y03 Y02 Y04	

Number of coax contacts (see page 93)	
Size	Number of coax
12	03 06 09 12
16	05 10
No coaxial contact	Blank

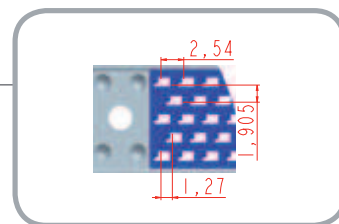
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SIAL >>> TECHNICAL SPECIFICATIONS

Dimensional characteristics



L= 22.86[.900] to 231.14[9.100] for signal version
 L= 53.34[2.100] to 180.34[7.100] for hybrid version
 A= 12.1_{MAX} [.476]
 H= 6.41_{MAX} [.252] for plug
 H= 10.26_{MAX} [.404]



Female contact



Cross cavity by Amphenol: lateral displacement compatible

- Cross section of the lateral displacement of the male contact inside the female cavity
- Maintains 2 points of contact
- Allows a ± 0.25 [$\pm .010$] lateral displacement
- No stress on solder joints or on the contact area

Material: beryllium copper (stamped)

Plating:

- Termination: tin lead or lead free
- Active contact area: gold over nickel

Male contact



Mating end size: 0.6 x 1.2 [.047 x .024]

Contact section (mating side): 0.72mm² [.001 in²]

Material: beryllium copper (stamped)

Plating:

- Termination: tin lead or lead free
- Active contact area: gold over nickel

Materials

- **Fixing devices:** anodized aluminium
- **Guiding devices:** passivated stainless steel
- **Polarizing pins:** passivated stainless steel
- **Metallic rails:** passivated stainless steel
- **Plastic inserts:** thermoset DAP, 30% glass-fiber filled

MECHANICAL CHARACTERISTICS

Backoff ¹ (mm)	< 0.8 [.031]
Mating force per contact (N)	0.58 _{MAX}
Unmating force per contact (N)	0.16 < F < 0.58
Durability cycles	500
Sinusoidal vibrations (10 to 2000 Hz) micro discontinuity 2ns	10 g
Random vibrations (10 to 2000 Hz) micro discontinuity 2ns	0.15 g ² / Hz
Shocks micro discontinuity 1ns	100 g

ENVIRONMENTAL CHARACTERISTICS

Thermal shocks (°C)	-55 / +125
Salt Spray (hours)	144* or 96

ELECTRICAL CHARACTERISTICS

Current rating per contacts (A)	3
Insulation resistance (at 500Vdc) (GΩ)	5 _{MIN}
Contact resistance (mΩ)	25 _{MAX}
Dielectric Withstanding Voltage (Vrms)	750
Capacitance between contacts (pF)	1.5 _{MAX}
Service voltage (at 50 Hz) (Vrms)	250

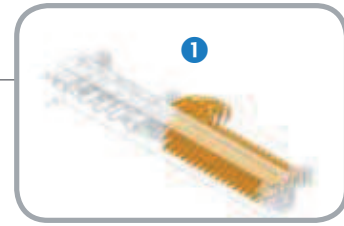
* "C" standard version

¹: When both connectors are fully mated, the backoff is the maximum distance the connectors can be unmated while functioning properly

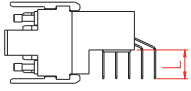
All dimensions are given for information only and are in mm [inch], except as otherwise specified

SIAL >>> SIGNAL CONTACTS (1)

MALE CONTACTS FOR PLUGS



Right angle PC tail



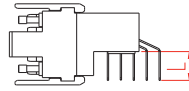
- Thru hole soldering
- Daughter board
- PCB thickness: 3.1_{MAX} [.122]



Termination style

Y01

Right angle PC tail



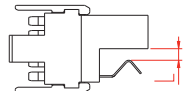
- Thru hole soldering
- Daughter board
- PCB thickness: 2.6_{MAX} [.102]



Termination style

Y02

SMT double side PCB, centered



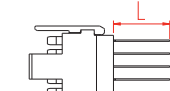
- SMT soldering
- Double-sided daughter board, centered
- PCB thickness: 2.6 ± 0.235 [.102 $\pm$.009]



Termination style

U04

Straight PC tail



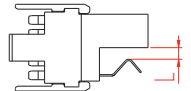
- Thru hole soldering
- Daughter board
- PCB thickness: 4.5 ± 0.45 [.177 $\pm$.018]



Termination style

Y04

SMT double side, centered



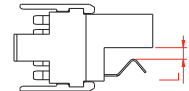
- SMT soldering
- Double-sided daughter board, centered
- PCB thickness: 1.6 ± 0.160 [.063 $\pm$.006]



Termination style

U06

SMT double side, centered



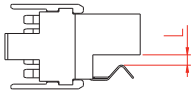
- SMT soldering
- Double-sided daughter board, centered
- PCB thickness: 2 ± 0.2 [.079 $\pm$.008]



Termination style

U05

SMT double side, off centered



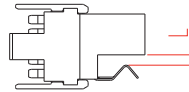
- SMT soldering
- Double-sided daughter board, offset
- PCB thickness: 2.6 ± 0.235 [.102 $\pm$.009]



Termination style

U08

SMT double side, off centered



- SMT soldering
- Double-sided daughter board, offset
- PCB thickness: 2.44 ± 0.42 [.096 $\pm$.016]



Termination style

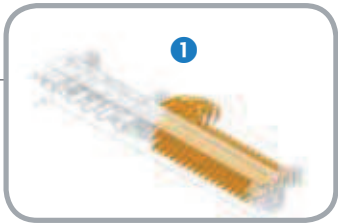
U07

	Y01	Y02	Y04	U04	U05	U06	U07	U08
L _{MAX}	4.2 ± 0.2 [.165 ± .008]	3.7 ± 0.2 [.146 ± .008]	6 [.236]	2.6 ± 0.235 [.102 ± .009]	2 ± 0.2 [.079 ± .008]	1.6 ± 0.160 [.063 ± .006]	2.44 ± 0.42 [.096 ± .016]	2.6 ± 0.235 [.102 ± .009]
Termination section	Ø 0.4 ± 0.03 [.016 ± .001]			0.3 x 0.8 [.012 x .031]				
Mating end size	1.2 x 0.6 [.047 x .024]							
Active contact area plating μm[μin]	2 [.079] Ni + 1[.039] Au							
Termination plating μm [μin]	2 [.079] Ni + 3 [.118] SnPb or bright pure Sn for RoHS version			2 [.079] Ni + 7 [.276] SnPb or bright pure Sn for RoHS version				

All dimensions are given for information only and are in mm [inch], except as otherwise specified

SIAL >>> SIGNAL CONTACTS (1)

MALE CONTACT FOR TEST PLUGS



Right angle PC tail



- Thru hole soldering
- Daughter board
- PCB thickness: 1.6 ± 0.16 [.063 $\pm$.006]

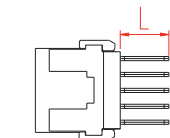


Termination style

Y03

FEMALE CONTACTS FOR RECEPTACLES

Straight PC tail, standard length



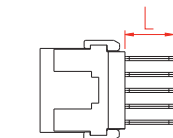
- Thru hole soldering
- Mother board
- PCB thickness: 3.75 ± 0.75 [.148 $\pm$.030]



Termination style

Y09

Straight PC tail, short length



- Thru hole soldering
- Mother board
- PCB thickness: up to 2 ± 0.2 [.079 $\pm$.008]

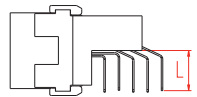


Termination style

Y19

FEMALE CONTACT FOR EXTENDER RECEPTACLES

Right angle PC tail, short length

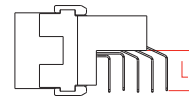


- Thru hole soldering
- Extender card
- PCB thickness: 2.6_{MAX} [.102]

Termination style

Y02

Right angle PC tail



- Thru hole soldering
- Extender card
- PCB thickness 3.1_{MAX} [.122]

Termination style

Y01

	Y03	Y02	Y01	Y09	Y19
L _{MAX}	2.8 ± 0.2 [.165 ± .008]	3.7±0.2 [.146 ± .008]	4.2 ± 0.2 [.165 ± .008]	6 [.236]	4.5 ± 0.2 [.177 ± .008]
Mating end size	1.2 x 0.6 [.047 x .024]				
Termination section	Ø 0.4 ± 0.03 [.016 ± .001]			Ø 0.5 ± 0.03 [.020 ± .001]	
Active contact area plating μm[μin]	2 [.079] Ni + 1[.039] Au				
Termination plating μm [μin]	2 [.079] Ni + 3 [.118] SnPb or bright pure Sn for RoHS version				

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SIAL >>> SPECIAL CONTACTS (2)

SIZE 16 COAXIAL CONTACTS



Male contacts for plugs – 5-cavity module

Straight crimp barrel

- For 5-cavity module
- For 2 [.079] cable
- Size 16: 6 GHz depending on cable – 50 Ω

2 [.079]

32008

Straight PC tail - UT47

- For 5-cavity module
- For UT47 semi-rigid cable
- Size 16: 6 GHz depending on cable – 50 Ω

Consult us

320033

Right angle PC tail

- For 5-cavity module
- Size 16: 6 GHz depending on cable – 50 Ω

Consult us

320032

Female contacts for receptacles – 5-cavity module

Straight crimp barrel

- For 5-cavity module
- For 2, 1.2, 2.7 or 2.4 cable [for .079, .047, .106 or .094 cable]
- Size 16: 6 GHz depending on cable – 50 Ω

2 [.079]
1.2 [.047]
2.7 [.106]
2.4 [.094]

320009
320011
320017
320018

Straight PC tail - UT47

- For 5-cavity module
- For UT47 semi-rigid cable
- Size 16: 6 GHz depending on cable – 50 Ω

Consult us

320006

Straight PC tail - Sucoform

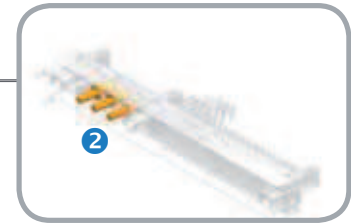
- For 5-cavity module
- For Sucoform cable 0.086 [.003]
- Size 16: 6 GHz depending on cable – 50 Ω
- No lateral displacement

Consult us

320021

SIAL >> SPECIAL CONTACTS (2)

SIZE 12 COAXIAL CONTACTS



Male contacts for plugs – 3-cavity module

Right angle PC tail

- For 3-cavity module
- Size 12: 0 to 3 GHz – 50 Ω

Consult us

320000

Straight crimp barrel

- For 3-cavity module
- Size 12: 0 to 3 GHz – 50 Ω
- Standard designation: M39029 / 28 - 211

Consult us

900340

Female contacts for receptacles – 3-cavity module

Right angle crimp barrel – KX22A

- For 3-cavity module
- For KX22A cable
- Size 12: 0 to 3 GHz – 50 Ω

Consult us

320001

Right angle crimp barrel – F 1703/66

- For 3-cavity module
- For F 1703 / 66 cable
- Size 12: 0 to 3 GHz – 50 Ω

Consult us

320004

Straight PC tail

- For 3-cavity module
- For test only, specific application
- Size 12: 0 to 3 GHz – 50 Ω
- No lateral displacement

Consult us

320002

Straight crimp barrel

- For 3-cavity module
- Standard designation: M39029 / 27 - 210
- Size 12: 0 to 3 GHz – 50 Ω
- With lateral displacement

Consult us

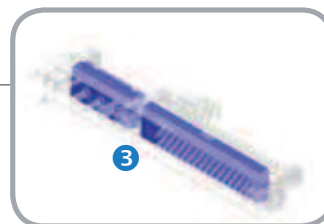
900354

	16-SIZE CONTACT	12-SIZE CONTACT
Impedance Ω	50	50
Voltage rating V	180	180
Current rating mA	500	500
Contact retention N	≥ 50	≥ 50
Frequency range GHz	0 to 1	0 to 1
Contact resistance mΩ	≤ 12	≤ 12
VSWR at 1 GHz	1.3 _{MAX}	1.3 _{MAX}
Insertion and extraction force per contact N	1 ≤ F ≤ 15	1 ≤ F ≤ 15
Dielectric and extraction force per contact N		at sea level, 1000 V. at 15240 m, 250 V.

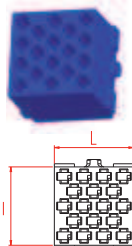
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SIAL >> MODULES (3)

SIGNAL MODULES



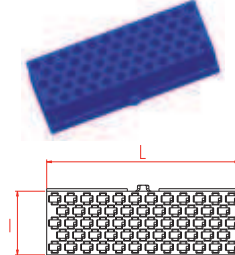
18 signal contacts



- Arrangement available:

- 18
- 18 x 2
- 18 + 58

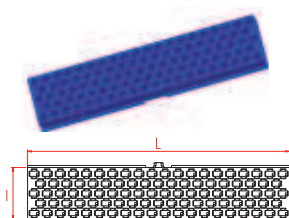
58 signal contacts



- Arrangement available:

- 58
- 58 + 18
- 58 x 2
- 58 + 98
- 58 x 2 + 98
- 58 + 98 x 2
- 58 x 2 + 98 x 2
- 58 x 3 + 98 x 2

98 signal contacts

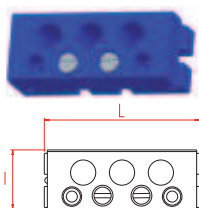


- Arrangement available:

- 98
- 98 + 58
- 98 x 2
- 98 + 2 x 58
- 98 x 2 + 58
- 98 x 2 + 58 x 2
- 98 x 2 + 58 x 3
- 98 x 4

HYBRID MODULES

3 coax contacts – size 12

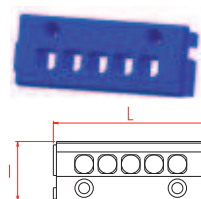


- 3-cavity module for 12-size coaxial contact

- Arrangement available:

- 3 + 18
- 3 + 58

5 coax contacts – size 16



- 5-cavity module for 16-size coaxial contact

- Arrangement available:

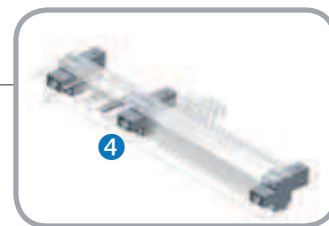
- 5 + 98
- 5 x 2 + 98 + 58

	18 signal contacts	58 signal contacts	98 signal contacts	3 coax contacts	5 coax contacts
L	10.16 [.400]	30.48 [1.200]	50.8 [2.1000]	25.4 _{MAX} [1.000]	
I					
Receptacle		10.05 [.396]			9.95 [.392]
Plug		10.8 [.425]			10.8 [.425]

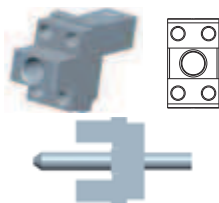
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SIAL >>> FITTINGS/GUIDING & KEYING (4 & 5)

FITTINGS / GUIDING (4)

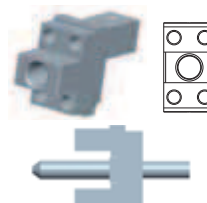


A- centered end fittings



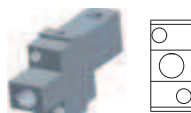
- 1 centered end fitting at one end of the connector
- Max length: 6, 35 [.250]
- Male guide pin on receptacle
- Female centered hole on plug
- 4 holes for polarizing

B- end fittings



- 1 end fitting at one end of the connector
- Max length: 6, 35 [.250]
- Male guide pin on receptacle
- Offset hole on plug
- 4 holes for polarizing pin

Central fittings



- Max length: 6, 35 [.250]
 - Guiding device: Male guide pin on receptacle
 - 2 holes for polarizing pin
- Signal version**
- 1 fitting for 196, 214, 254 and 312 positions
 - 2 fittings for 370 positions
 - 3 fittings for 392 positions

With coaxial contacts

- 1 fitting for 18 + 3, 58 + 3 and 98 + 5 positions
- 2 fittings for 98 + 58 + 5 x 2 positions

KEYING (5)

Polarizing pins

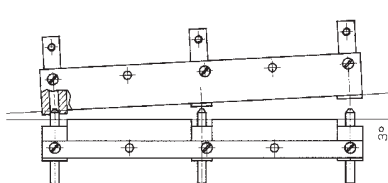
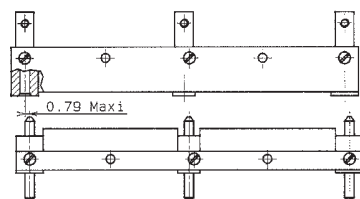


- 2 pins at each end fitting for the plug / 2 pins at each end fitting for the receptacle
- 1 pin at each central fitting for the plug / 1 pin at each central fitting for the receptacle
- Identification of keying cavities: clockwise for the plugs, counterclockwise on the receptacle
- A,B,C,D on A fitting, W,X,Y,Z on B fitting

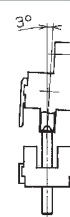
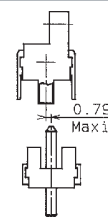


REALIGNMENT CAPABILITY

In the longitudinal axis



In the lateral axis



MATING SEQUENCE

Shell guiding	Coax guiding	Keying	Coax contact	Signal contact	Housing contact
6.8 ± 0.45 [.268 ± .018]	6.56 ± 0.45 [.258 ± .018] 3.3 ± 0.6 [.130 ± .024]	6.27 ± 0.36 [.247 ± .014] 0.24 ± 0.6 [.009 ± .024] 3.7 ± 0.7 [.121 ± .028]	3.26 ± 0.6 [.128 ± .024] 3.3 ± 0.6 [.130 ± .024]	2.14 ± 0.28 [.084 ± .011]	2.14 ± 0.28 [.084 ± .011] 2.9 ± 0.6 [.114 ± .024]

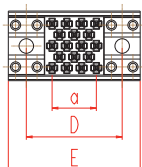
All dimensions are given for information only and are in mm [inch], except as otherwise specified

SIAL >> SIGNAL VERSION (3)

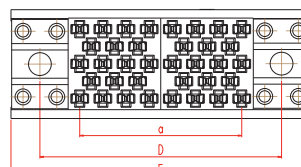
TYPICAL ARRANGEMENTS



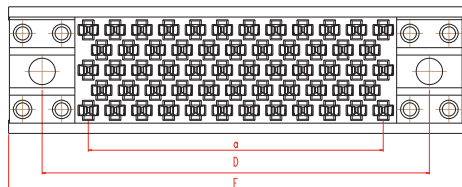
18 signal contacts



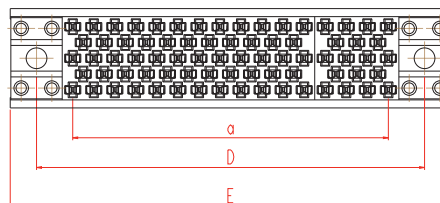
36 signal contacts



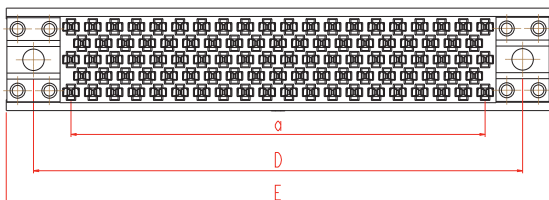
58 signal contacts



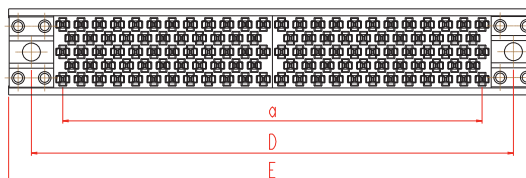
76 signal contacts



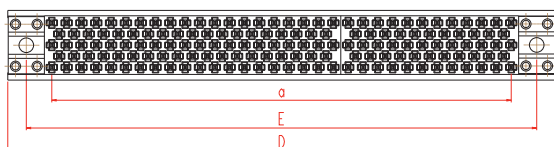
98 signal contacts



116 signal contacts



156 signal contacts



	18	36	58	76	98	116	156
D	16.51 [.650]	26.67 [1.050]	36.83 [1.450]	46.99 [1.850]	57.15 [2.250]	67.31 [2.650]	87.63 [3.450]
E_{MAX}	22.86 [.900]	33.02 [1.300]	43.18 [1.700]	53.34 [2.100]	63.5 [2.500]	73.66 [2.900]	93.98 [3.700]
a	7.62 [.340]	17.78 [.700]	27.94 [1.100]	38.1 [1.500]	48.26 [1.900]	58.42 [2.300]	81.28 [3.200]

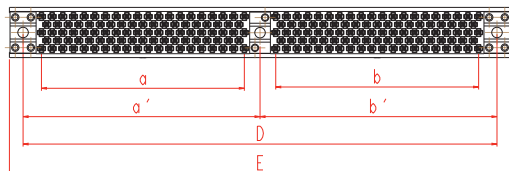
All dimensions are given for information only and are in mm [inch], except as otherwise specified

SIAL >> SIGNAL VERSION (3)

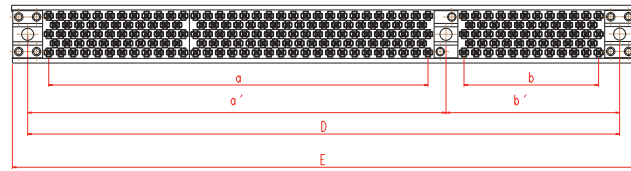
TYPICAL ARRANGEMENTS



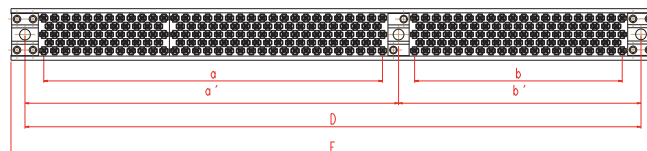
196 signal contacts



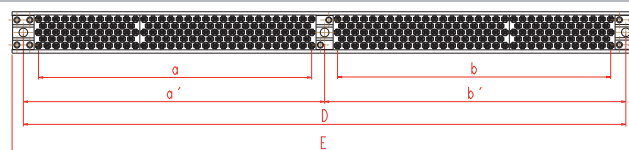
214 signal contacts



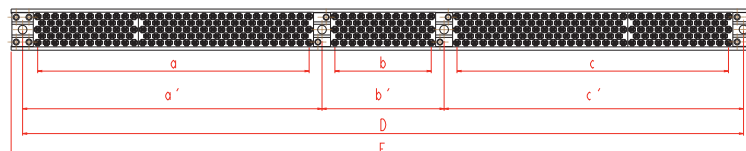
254 signal contacts



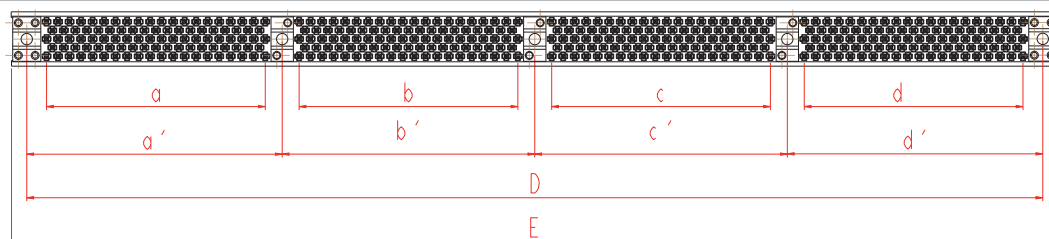
312 signal contacts



370 signal contacts



392 signal contacts



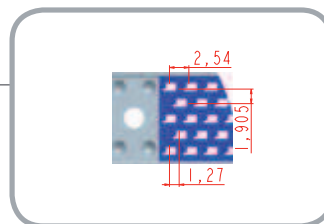
	196	214	254	312	370	392
D	113.03 [4.450]	123.19 [4.850]	143.51 [5.650]	173.99 [6.850]	209.55 [8.250]	224.79 [8.850]
E_{MAX}	119.38 [4.700]	129.54 [5.100]	149.86 [5.900]	180.34 [7.100]	215.9 [8.500]	231.14 [9.100]
a	48.26 [1.900]	81.28 [3.200]	81.28 [3.200]	81.28 [3.200]	81.28 [3.200]	48.26 [1.900]
a'	56.515 [2.225]	86.995 [3.425]	86.995 [3.425]	86.995 [3.425]	86.995 [3.425]	56.515 [2.225]
b	48.26 [1.900]	27.94 [1.100]	48.26 [1.900]	81.28 [3.200]	27.94 [1.100]	48.26 [1.900]
b'	56.515 [2.225]	36.195 [1.425]	56.515 [2.225]	86.995 [3.425]	35.56 [1.400]	55.88 [2.200]
c					81.28 [3.200]	48.26 [1.900]
c'					86.995 [3.425]	55.88 [2.200]
d						48.26 [1.900]
d'						56.515 [2.225]

All dimensions are given for information only and are in mm [inch], except as otherwise specified

SIAL >> SIGNAL VERSION (S)

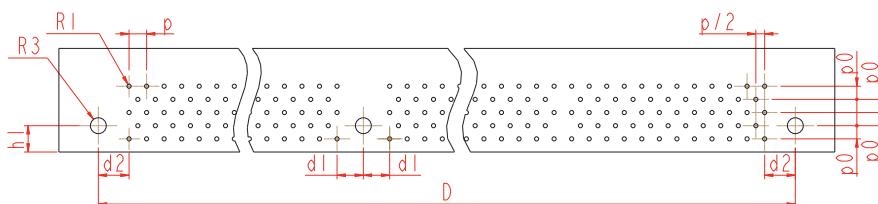
LAYOUTS

The boards are shown from the connector side
All contact locations are equidistant.



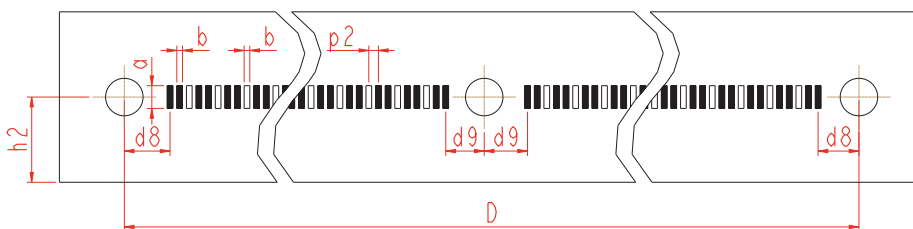
With YC signal contacts for plug

DAUGHTER BOARD



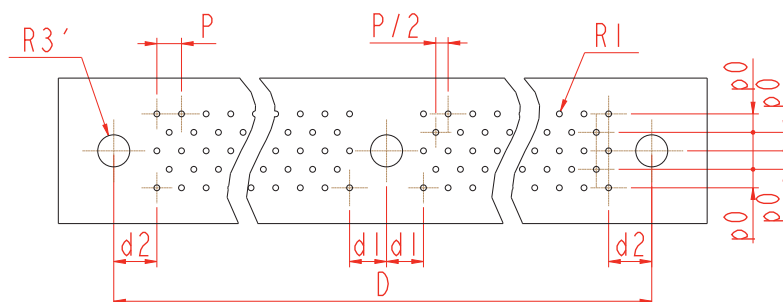
With U --- signal contacts for plug

DAUGHTER BOARD



With Y -- signal contacts for receptacle

MOTHER BOARD



R_1	R_3	R_3'	p	$p/2$	p_0	p_2	d_1	d_2	d_8	d_9	a	b	h_1	h_2
$\varnothing 0.6_{\text{MIN}}$ [.024]	$\varnothing 2.3^{+0.15}_{-0.06}$ [.091 [.004]]	$\varnothing 3.3$ [.130]	2.54 [.100]	1.27 [.050]	1.905 [.075]	0.85 [.033]	3.81 [.150]	4.445 [.175]	4.02 [.158]	3.39 [.133]	2_{MAX} [.079]	0.5_{MAX} [.020]	3.81 [.150]	3.81 [.150]

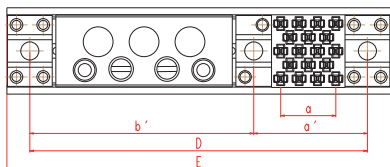
All dimensions are given for information only and are in mm [inch], except as otherwise specified

SIAL >> COAXIAL VERSION (3)

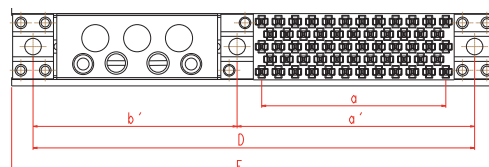
TYPICAL ARRANGEMENTS



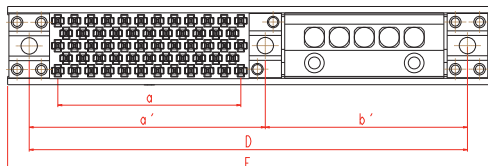
18 signal contacts + 3 coax



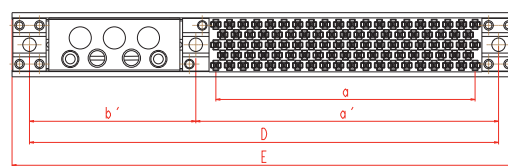
58 signal contacts + 3 coax



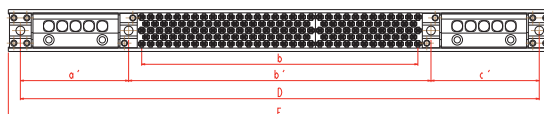
58 signal contacts + 5 coax



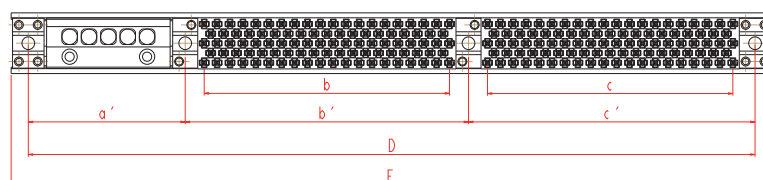
98 signal contacts + 3 coax



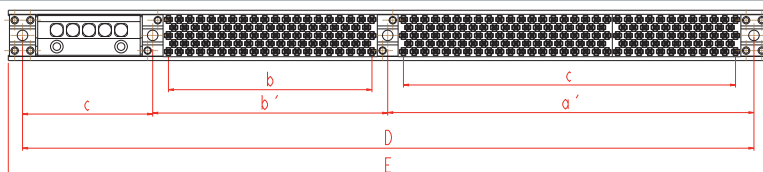
5 coax + 98 + 58 signal contacts + 5 coax



196 signal contacts + 5 coax



254 signal contacts + 5 coax

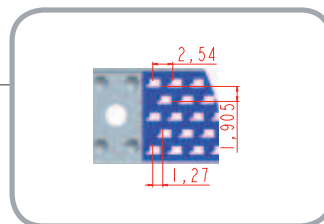
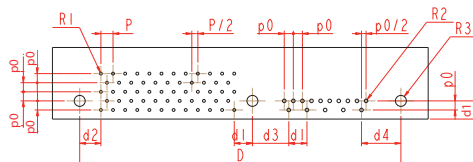
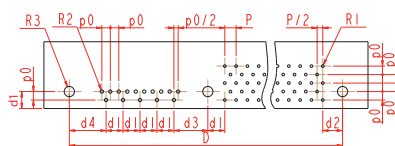
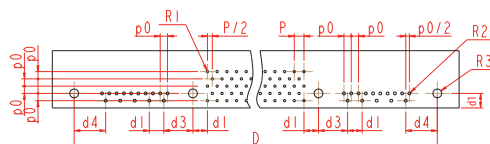
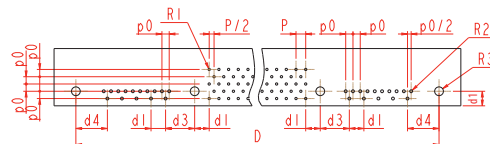
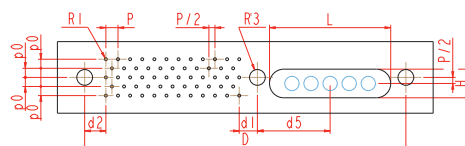
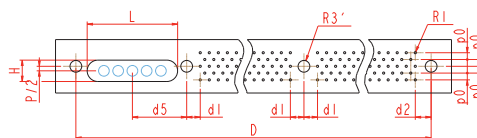
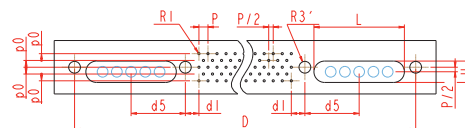


	18 + 3	58 + 3	58 + 5	98 + 3	5 + 98 + 58 + 5	196 + 5	254 + 5
D	46.99 [1.850]	67.31 [2.650]	67.31 [2.650]	87.63 [3.450]	148.59 [5.850]	143.51 [5.650]	173.99 [6.850]
E_{MAX}	53.34 [2.100]	73.66 [2.900]	73.66 [2.900]	93.98 [3.700]	154.94 [6.100]	149.86 [5.900]	180.34 [7.100]
a	7.62 [0.340]	27.94 [1.100]	27.94 [1.100]	48.26 [1.900]	/	48.26 [1.900]	81.28 [3.200]
a'	15.875 [0.625]	36.195 [1.425]	36.195 [1.425]	56.515 [2.225]	31.115 [1.225]	56.515 [2.225]	86.995 [3.425]
b	/	/	/	/	81.28 [3.200]	48.26 [1.900]	48.26 [1.900]
b'	31.115 [1.225]	31.115 [1.225]	31.115 [1.225]	31.115 [1.225]	86.36 [3.400]	55.88 [2.200]	55.88 [2.200]
c					31.115 [1.225]	31.115 [1.225]	31.115 [1.225]

All dimensions are given for information only and are in mm [inch], except as otherwise specified

LAYOUTS

The boards are shown from the connector side
All contact locations are equidistant.

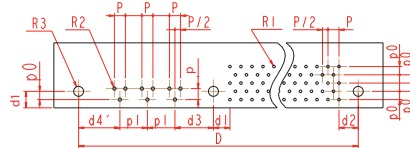
NX05-002
DAUGHTER
BOARDNX05-000
DAUGHTER
BOARDNX10-001
DAUGHTER
BOARDNX10-000
DAUGHTER
BOARDNT05-002
MOTHER BOARDNT05-000
MOTHER BOARDNT10-000
MOTHER BOARD

All dimensions are given for information only and are in mm [inch], except as otherwise specified

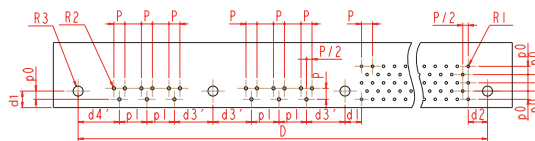
LAYOUTS

Technical drawing of a blue brick with dimensions: length 2,54, height 1,905, and hole diameter 1,27.

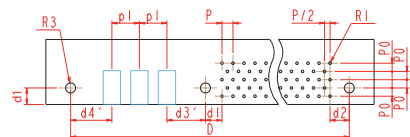
**K(2)03-000
DAUGHTER
BOARD**



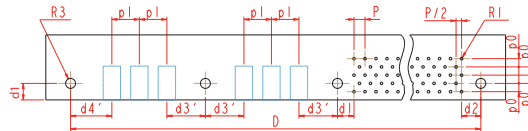
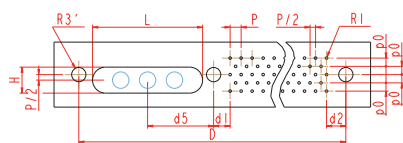
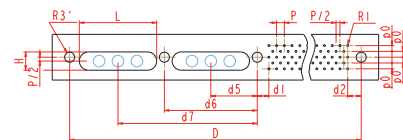
**K(2)06-000
DAUGHTER
BOARD**



**K(1)03-000
DAUGHTER
BOARD**



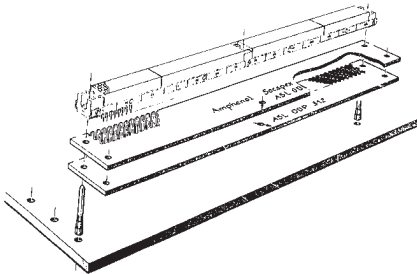
**K(1)06-000
DAUGHTER
BOARD**

KT03-000
MOTHER BOARDKT06-000
MOTHER BOARD

All dimensions are given for information only and are in mm [inch], except as otherwise specified

SIAL >>> TOOLING

Receptacle mounting on mother board (Y09)

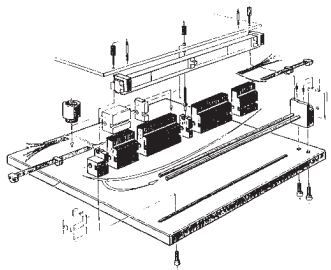


- Insertion of all connector sizes with Y09 dip solder contacts
- Into 0.6 mm [.024] thru plated holes
- Consult us for additional references

ASL ODP 058
ASL ODP 098
ASL ODP 116

ASL ODP 156
ASL ODP 254
ASL ODP 312

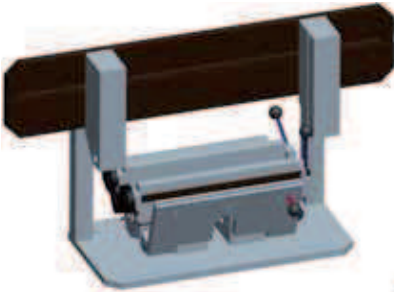
Plug mounting on daughter board (Y01 or Y02)



- Insertion of all connector sizes with Y01 or Y02 right angle dip solder contacts
- Into 0.6 mm [.024] thru plated holes
- Consult us for additional references

ASL ODI YC 312
ASL ODI YC 392

Plug mounting on daughter board (SMT)



- Insertion of all connector sizes with U04, U05, U06, U07 or U08 SMT contacts (Surface Mount Terminations)
- Consult us for additional references

ASL ODI SMT

Mounting tool for size 16 coax contacts



- On mother board or daughter board
- Consult us for additional references
- For ASLF **** NX05-002 and ASLF **** NX05-502 connectors, use the ASL ODP NX10 tool.

ASL ODP NX05

ASL ODP NX10

Extraction tool for coax contacts

Size 12



809839

Size 16



ASL OD COAX FEMELLE TAILLE 16

All dimensions are given for information only and are in mm [inch], except as otherwise specified

SIAL >>> TOOLING

CRIMPING TOOL FOR 12-SIZE COAX CONTACTS

Inner contact crimping tool



- For 12-size coaxial contacts
- Additional turret:
PN 809932 (M22520/2-34)
- Military reference : M22520/2-01

Part number

809801

Outer contact crimping tool



- For 12-size coaxial contacts
- Additional turret:
PN 809927 (M22520/31-02)
- Military reference : M22520/3-1-01

Part number

809926

INSERTION AND REMOVAL TOOLS FOR 12-SIZE COAX CONTACTS

Insertion tool



- Size 12
- Metallic

Part number

809838

Removal tool



- Size 12
- Metallic
- For 900340 and 900354 contacts

Part number

809839

Insertion/Removal tool



- Size 12
- Plastic

Part number

809859

Removal tool



- Size 12
- Metallic
- For 320001 contact

Part number

809933

All dimensions are given for information only and are in mm [inch], except as otherwise specified