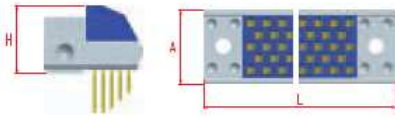




SIAL >>> TECHNICAL SPECIFICATIONS

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 [.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): 0.72 mm² [.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, ENVIRONMENTAL AND ELECTRICAL CHARACTERISTICS

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*



Download our HDAS catalogue with all the technical datas on our dedicated website: www.pcb-interconnect.com