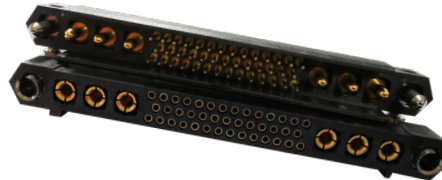


HDAS Series

High performance & versatile
Board to Board 1,905mm / .075" pitch connector



High-density
1.905 mm
straggered
grid

Description

Amphenol Socapex HDAS is a versatile monolithic connector from 11 to 253 contacts. Designed to reach MIL-DTL-55302 performances, HDAS is the right connector when reliability must be considered. Up to 20A with an hybrid version to mix signal, power or RF, HDAS is available with a wide range of fittings, contacts & options. Already used in every critical application.

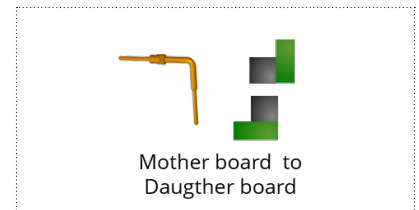
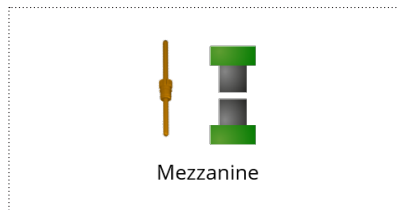
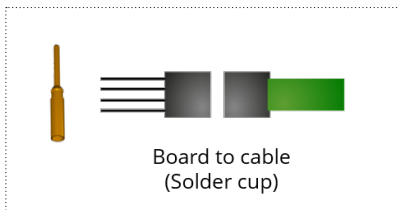
Benefits

- Dedicated to harsh environment
- Electrical security 1,2mm
- 1,27μ Au on socket, 1μ Au on pins
- 16mm distance between boards (YD/YD)

Features

- 12 arrangements, from 11 to 253 contacts
- Hybrid version to mix signal, power & coax
- PC Tail, press fit, solder cup & surface mount contacts
- Meet & Exceed MIL-DTL-55302

Configurations



Online configurator & 3D model download

You can define references according your needs and download directly 3D models in several formats on HDAS product page in our website www.amphenol-socapex.com or scan QR code :



HDAS – Ruggedized board to board connector

Manufacturer	AMPHENOL SOCAPEX	Part number special con...
Description	HDAS receptacle with 29 straight PC tail stan...	Part number special con...
Part number	HDAS020YD-000	Part number special con...
Note	Special contacts to be ordered separately	

Read more

CAD models Request for quotation Share

Please select

Product selection

Series	HDAS
Connector type	E Receptacle (Female contacts)
Number of contacts	29

Markets



Commercial Aerospace



Military Aerospace



Ground Vehicle



C4ISR



Missiles

Technical Specifications

Mechanical characteristics	HDAS	MIL-DTL-55302 sections
Backoff ¹ (mm)	1.2 [.0472] _{MAX}	N/A
Mating force per contact (N)	0.6 < F < 0.8	§ 4.5.3
Unmating force per contact (N)	0.3 < F < 0.5	§ 4.5.3
Durability cycles	500	§ 4.5.9
Sinusoidal vibrations (200 to 2000 Hz) micro discontinuity 2ns	15 g	§ 4.5.10
Random vibrations (600 to 700Hz) micro discontinuity 2ns	1.2 g ² / Hz	§ 4.5.10
Shocks 6ms ½ sinus 2ns	100 g	§ 4.5.10
Environmental characteristics		
Thermal shocks (°C)	-65 / +150	§ 4.5.13
Salt Spray (hours)	144	§ 4.5.11
Humidity Days Temperature (°C) Humidity rate (%)	10 25/65 90-95	§ 4.5.15
Electrical characteristics		
Current rating per contacts (A)	4.5	§ 4.5.5
Insulation resistance (at 500Vdc) (GΩ)	5 _{MIN}	§ 4.5.8
Contact resistance (mΩ)	10 _{MAX}	§ 4.5.12
Dielectric Withstanding Voltage (Vrms)	750 _{MIN}	§ 4.5.7.1

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

How to order

1.	2.	3.	4.	5.	6.	7.	8.
Series	Connector type	Number of contacts	Contact termination	Hybrids	Deviation	Fitting / locking / Keying	Plating
HDAS	E	41	YD	6A	-00	0	LF

1. Series

HDAS	HDAS
------	------

2. Connector type

E	Receptacle (Female contacts)
F	Plug (Male contacts)

3. Number of contacts

3 Rows	011
	020
	029
	041
	050
	077
4 Rows	119
	152
4 Rows	102
	202
5 Rows	253

4. Contact termination

YCS	Right angle PC tail short (plug only)
YC	Right angle PC tail standard (plug only)
YDS	Straight PC tail short
YD	Straight PC tail standard
YP	Press fit / compliant (receptacle only)
Z	Solder cup, for test application only (plug only)

5. Hybrids

6A	With 6 special cavities (applicable only with 41 signal contacts)
Blank	If no special cavities

6. Deviation

-00	Standard, by default
-50	Marking withstanding to VIGON
-01	Dip tinning (SnPb or SnAg) (plug only)
-02	PC tail organizer (YC* plug only)
-10	Stainless steel fitting (mandatory for latch)
-60	-10 & -50 deviation combined
-20	Stainless steel fitting & rear potting

* Not available for all configuration, please consult us.

7. Fitting / Locking / Keying ¹

Female fitting receptacle	0	Standard
	4	Intermediate
	D	¼ turn locking, locking on male fitting side Straight according to contact termination, for PCB
	H	Locking by screw, locking on female fitting side Straight fitting for PCB or flexible circuit
	I	Locking by screw, locking on female fitting side
	F	Locking by screw, locking on female fitting side Straight according to contact termination, for PCB
	L	Latch
Male fitting plug	0	Standard
	2	No keying on male guide (plug only)
	E	¼ turn locking, locking on male fitting side Straight fitting for cable or flexible circuit
	G	Locking by screw, locking on female fitting side Straight or right angle fitting according to contact termination, for PCB
	J	Locking by screw, locking on female fitting side Straight or right angle fitting according to contact termination, for chassis, motherboard, jumper or cable
	L	Latch

8. Plating

Blank	Tin lead on receptacle Gold on plug -000 ✓ SnPb dip tinning on plug
LF	Bright pure Sn on receptacle ✓ SnAg dip tinning on plug ✓
LFM	Matte pure Sn on receptacle ✓

¹ Connectors are always delivered with non assembled fittings

✓: RoHS compliant

