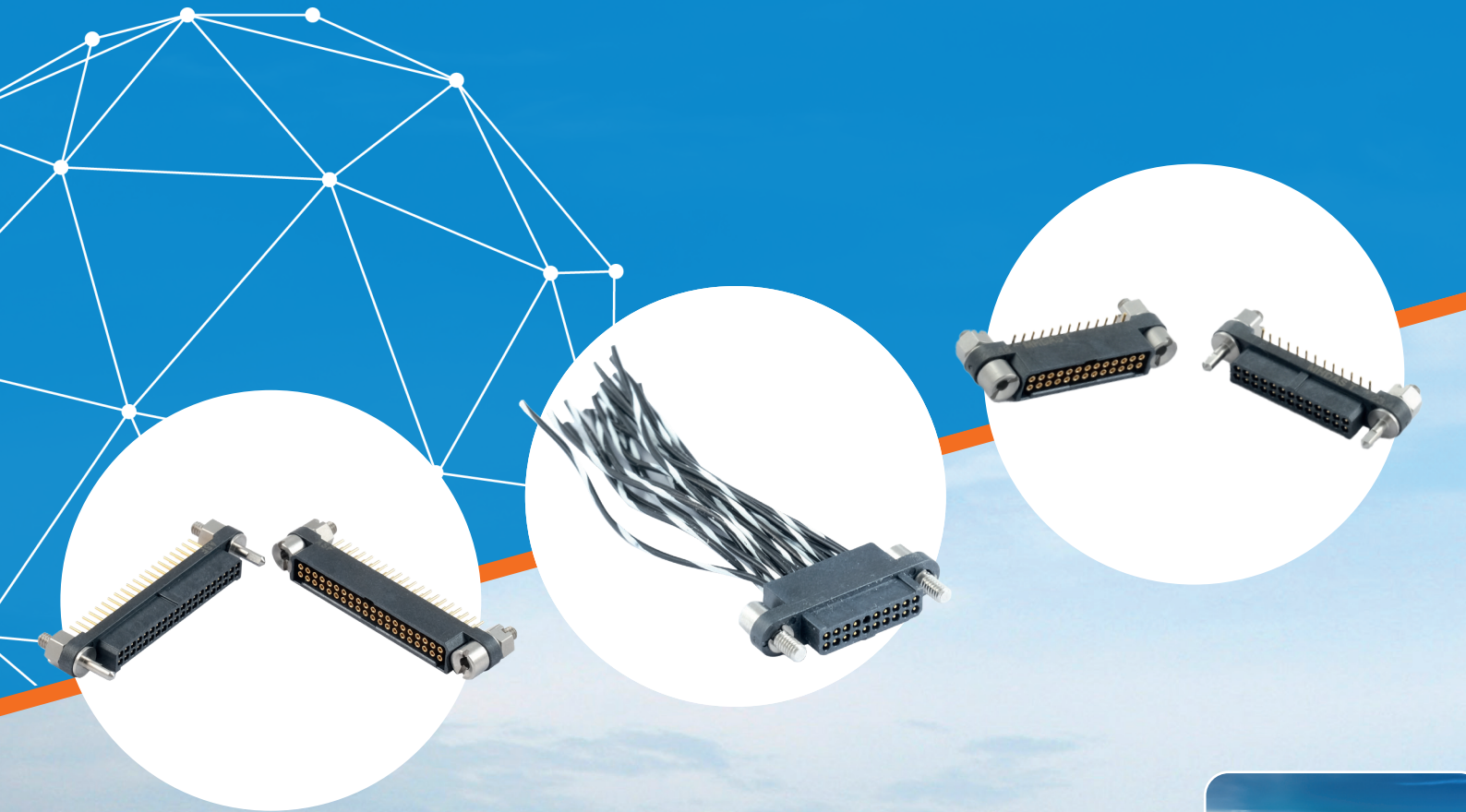
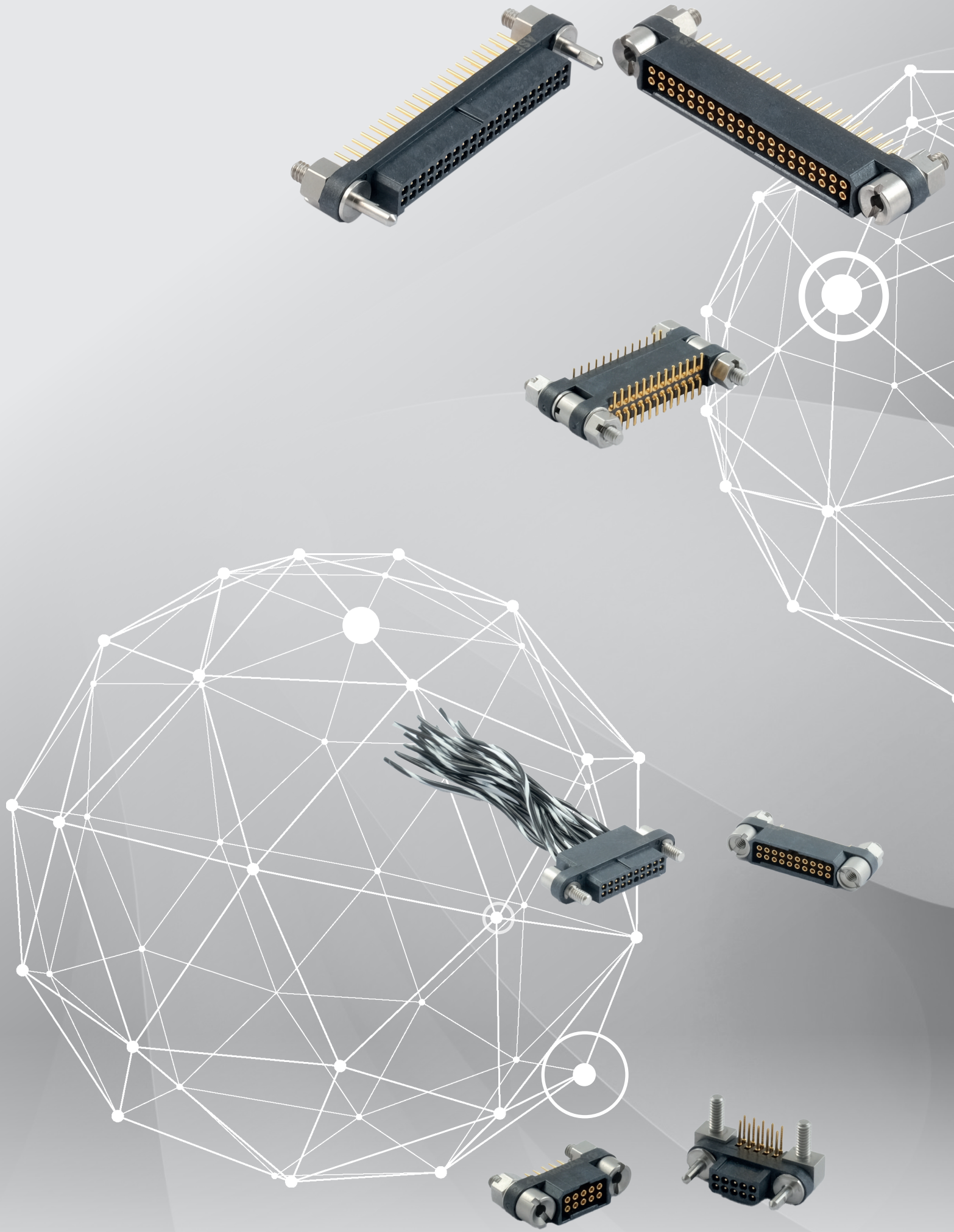


## Micro HDAS

Miniature High-Density & Reliability  
1,27mm / .050" pitch PCB connector







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# OUR COMPANY



## Proven excellence in interconnect solutions

- Since **1947**, Amphenol Socapex has prescribed, designed and manufactured reliable and innovative interconnection solutions for harsh environments, specializing in standard and customized electrical and fiber optic connectors, contacts, accessories and cabling solutions.
- Located in the **Mont Blanc region** of France and Pune in India, Amphenol Socapex serve customers in over 100 countries around the world.
- Amphenol Socapex is part of the leading supplier of interconnect systems **Amphenol**.



**1400+**  
employees



**142 M€**  
Net Sales 2023  
70% Export - 30% France



Thyez, **France**  
Pune, **India**



## Our expertise has no boundaries

### Integrated Production in France & India

- 24 000 m<sup>2</sup> manufacturing capacity on 2 sites
- Design and manufacturing centers in France and India
- State-of-the-art manufacturing technology

## Our markets



**Defense**



**Commercial  
Aerospace**



**Space**



**Industry**



# TECHNOLOGIES & INNOVATION

## Engineering Laboratory



Product testing and qualification expertise in many fields:

- Environmental, mechanical, electrical, chemical, climatic skills
- RF and fiber optics expertise

## High-Speed Expertise



Strong expertise in high-speed signals

- 3D EM simulation software & EM models
- Time Domain and frequency domain

## Materials Expertise



Focus on materials expertise and manufacturing techniques to produce faster, smaller and stronger products

- Advanced technology research and development: polymers, metals, platings, resins ...
- Cutting edge characterizations of interconnects: Radio Frequency, partial discharges ...
- 3D CAD mechanical software, simulation & analysis

## Eco-responsibility



Sustainable environment approach, with pro-active management of regulations (REACH / RoHS / Conflict minerals...)

- New materials development, plating, and suitable processes
- Recycling and rational resources consumption

## Our workshops



Our workshops located in France & India provide consistent quality adapted to your volume requirements.

**Automation & Tooling :** Tools for our different activities : molding, machining, assembly

**Molding :** Solid expertise in thermoplastic elastomer and thermoset molding

**Machining :** Manufacturing of cylindrical shells and rectangular shells

**Screw Machining :** Manufacturing of electrical contacts

**Plating :** Plating with cadmium, nickel, electroless nickel, silver, black zinc nickel, gold

**Assembly :** Connector and harness assembly (electrical & optical)

## Our certifications

Product certifications : MIL-DTL38999, EN3645, EN3155, VG (VG95328, VG95319, VG96944, VG95218, VG96949)



Certified Management System



Certified Management System



Certified Management System



Certified Management System

## Our memberships

Member of CMG (Connecting Manufacturing Group) Consortium

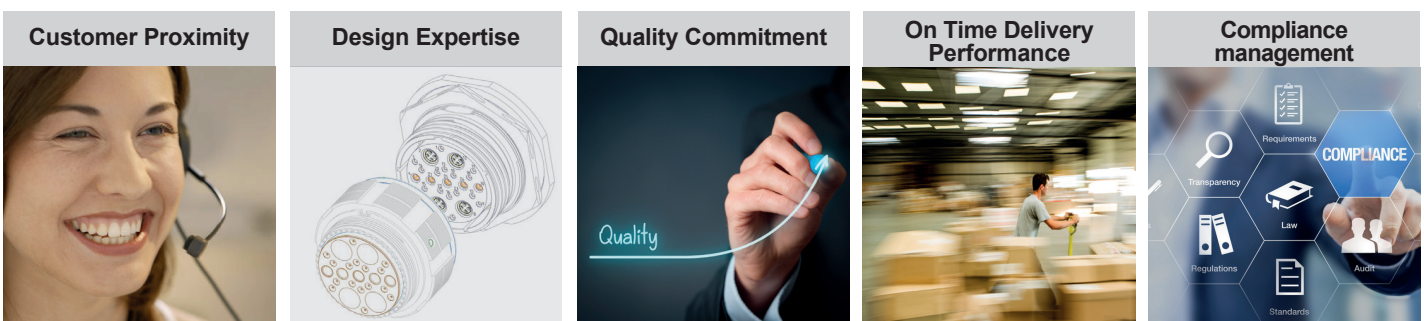


# CUSTOMER EXPERIENCE

## Service

► We have a strong reputation for helping customers solve their toughest challenges. This approach of serving your needs is ingrained in our company - from our sales team to our product development engineers.





## A partner you can trust



## Buy our solutions

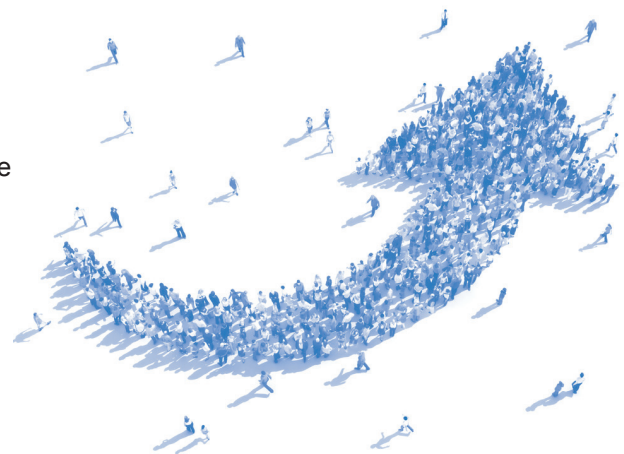
You can access our solutions through our global network of sales offices or through our distributors.

### Field Sales Team :

-  10 in France
-  15 in Europe
-  100+ in North America and rest of the world.
-  5 Business Development Managers supporting local sales force Europe, North America and the rest of the world

### Technical Advisement & Multilingual Customer Service :

20 people



### Worldwide Distribution Network :

Our range of circular connectors, contacts, fiber optic connectors, PCB connectors and accessories are available thru our extensive distribution network.

It includes qualified distributors (QPL approved) for assembling MIL-DTL-38999 & derivatives and PT/451 (VG95328) connectors.

[Check our product inventory](#)



[Product Selectors & 3D Files](#)



NEW





# OUR HISTORY

1947 



- Socapex creation in Suresnes, France  
- 1<sup>st</sup> radio connector

1956-57



- Manufacturing unit in Cluses (74), France  
- Thomson-CSF becomes primary shareholder

Early 1960's



- 1<sup>st</sup> board level connectors: HE8  
- 1<sup>st</sup> "licence Bendix" manufactured connectors  
- SL Series

1973



New factory in Thyez (74) France with 250 people, 13 000m<sup>2</sup>

1975



Production of 38999 connectors

1986

**Amphenol**  
Socapex

Amphenol becomes primary shareholder

1995-96



- Expanded Beam connector CTOS launch  
- Headquarters transferred to Thyez

2004



RJ Field launch, "Award Electronica"

2005 



New factory in Pune, India

2010's



LuxBeam™ and HDAS launch

2014-2017

High Speed Contacts

Cable Assembly



New workshops :  
- Cable Assembly & Contact Manufacturing workshop

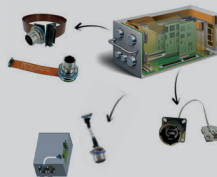
2019



Increased manufacturing capacity with 2<sup>nd</sup> building in Pune, India

2022

**75** YEARS  
1947 - 2022



Harness in the box solution launch

Today & tomorrow



New technologies :  
- Investment in automation & technical expertise



Amphenol SOCAPEX joins the "Convention des Entreprises pour le Climat".  
- Our goal: to accelerate our transition to a more sustainable operation.

# MARKETS AND APPLICATIONS



## Commercial Aerospace

- Fadec/Engine control
- Landing gear
- Braking system
- Display unit - Power unit
- Actuator - Flight control system



## Military Aerospace

- Countermeasure
- Power unit - Radar
- Display unit - Flight control system
- POD - Braking system
- FADEC/Engine control
- UAV



## Ground Vehicle



## C4ISR

- Countermeasure
- Threat detection system
- Rugged computer
- Digital radio
- Ground radio - Communication systems



## Missile

- Missile launcher
- POD
- Missile



## Space

- Space vehicles
- Satellites
- Launchers





# MICRO HDAS

Amphenol SOCAPEX



# GENERAL CHARACTERISTICS - MICRO HDAS

High performance and high density miniature connector



## Description

Amphenol Socapex introduce the Micro HDAS, its new micro board to board and board to wire connector. Micro HDAS allows you to save space on your board while maintaining a high level of performances. Offering you PC Tail, SMT & crimp contact terminations, Micro HDAS provides a modularity to fit all your needs.

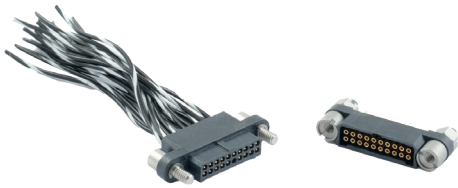
## Benefits

- Space & weight reduction to meet your miniaturization needs
- High density : 1.27mm [.050"] pitch
- Protected contacts by design
- 7,4mm distance between boards

## Features

- 29 arrangements, from 4 to 60 contacts
- PC Tail, SMT & Crimp contacts
- Meet & Exceed MIL-DTL-55302G & 83513G
- Full range of fittings to answers your needs

## Configurations



Board to wire  
(Crimp AWG 24 to 30)



Mezzanine



Mother board to  
Daughter board

## Exploded views and Materials

### CONTACTS

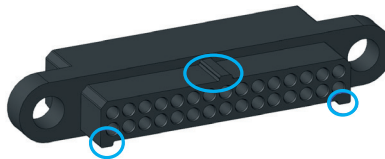


Male pins: copper alloy, 0.75µm gold



Female pins (inner): beryllium copper, 1.27µm gold  
Female pins (outer): copper alloy, 0.125µm gold

### INSULATORS



30% glass-filled thermoplastic (LCP) UL94V-0 Polarized

### FITTINGS



Passivated Stainless Steel

## Online configurator & 3D model download

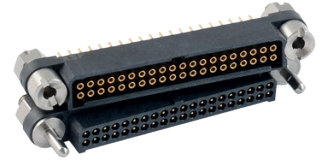


Scan me





# GENERAL CHARACTERISTICS - MICRO HDAS SERIES



## Technical Specifications

MECHANICAL CHARACTERISTICS	MICRO HDAS	MIL-DTL-55302	
Backoff - Electrical security (mm)	1,27	N/A	
Contact engagement & separation forces Mating force per contact (N) Unmating force per contact (N)	0,39 < F < 0,68 0,16 < F < 0,21	4.5.3	
Mating and unmating forces - Initial - Tested on a 30 ways connector Mating forces (N) - average per contact Unmating forces (N) - average per contact	0,44 0,31	4.5.4	
Durability cycles	500	4.5.9	
Sinusoidal vibrations	Up to 45g	4.5.10	
Shocks (sawtooth/6ms)	Up to 160g	4.5.10	
Fixing torque between connector and PCB (N.m)	0,3	N/A	
Fixing torque between connectors (N.m)	0,2	N/A	
Crimp tensile strength	AWG 24 > 49,98N	N/A	
	AWG 26 > 36,64N		
	AWG 28 > 19,90N		
	AWG 30 > 11,30N		
ENVIRONMENTAL CHARACTERISTICS			
Operating Temperature (°C)	-65/+150	4.5.13	
Salt spray (hours)	96	4.5.11	
Humidity - 25/65°C - 90-95%	10 cycles of 24 hours	4.5.15	
Thermal vacuum outgassing Applicable to LCP housing, PEEK ring (AWG 24 contact) and backpotting Stycast 2651 MM + Catalyst 9	Total mass loss : TML < 1% of the original mass Max volatile condensable material : CVCM < 0.1% of the original mass	ASTM E595 (ECSS-Q-ST-70 02C)	
ELECTRICAL CHARACTERISTICS			
Current rating per contact (A) - 30 ways connector	Contact configuration	@25°C	@85°C
	YD/YD	3,4A	2,5A
	YD/YC	3,9A	2,6A
Insulation resistance (at 500Vdc) (GΩ)	YD/CRIMP	Depending on cable, up to 5A	
	> 5	4.5.8	
Contact resistance (mΩ)	< 8	4.5.5	
Dielectric withstanding voltage (Vrms) at sea level	750	4.5.7.1	
Dielectric withstanding voltage (Vrms) 70 000 feet (between contacts)	480		

## Connector marking

Micro HDAS connectors are laser marked.

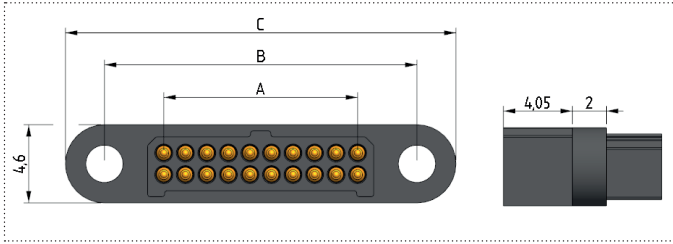
Exemple of marking :

Series name	Contact type	Date code
MHDAS	YC	YYWW

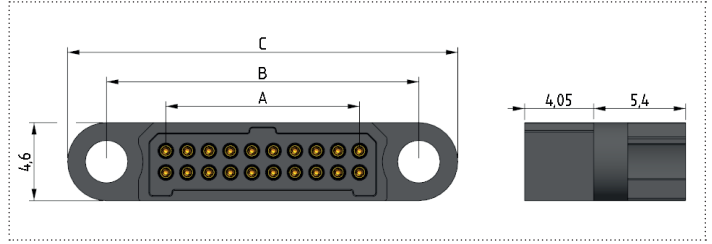
Series name : MHDAS = Micro HDAS  
Contact type : as specified in our how to order  
YYWW : year + week batch

# OVERALL DIMENSIONS - MICRO HDAS

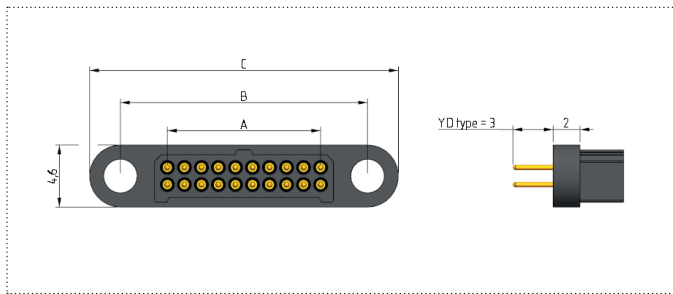
## Male for cable



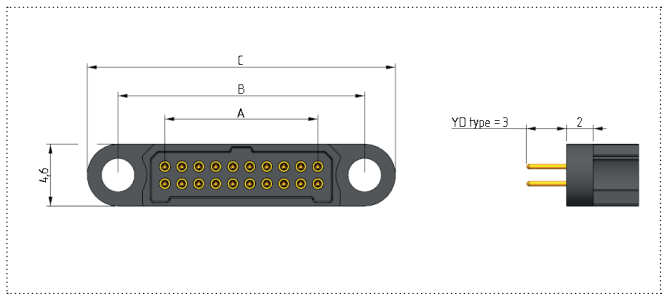
## Female for cable



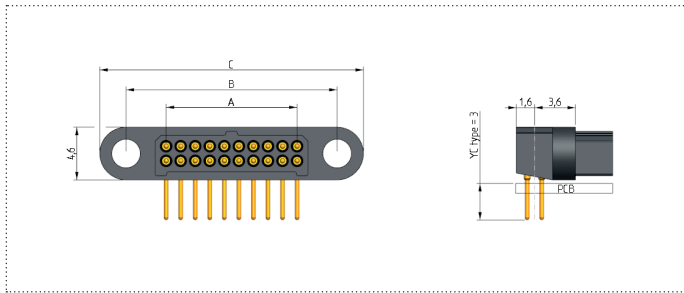
## Male Straight Thru Hole



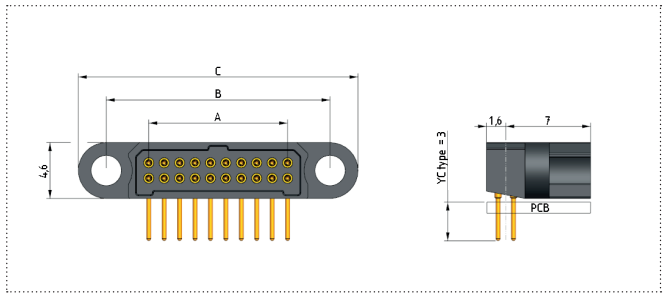
## Female Straight Thru Hole



## Male 90° Thru Hole



## Female 90° Thru Hole



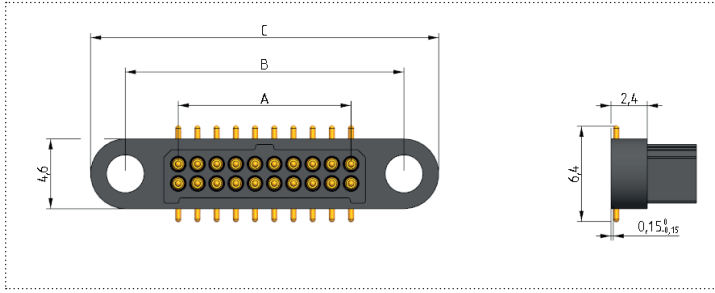
Dimension table

LF contact number	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60
A = Distance between pins (mm)	1.27	2.54	3.81	5.08	6.35	7.62	8.89	10.16	11.43	12.70	13.97	15.24	16.51	17.78	19.05	20.32	21.59	22.86	24.13	25.40	26.67	27.94	29.21	30.48	31.75	33.02	34.29	35.56	36.83
B = Distance between fittings (mm)	8.27	9.54	10.81	12.08	13.35	14.62	15.89	17.16	18.43	19.70	20.97	22.24	23.51	24.78	26.05	27.32	28.59	29.86	31.13	32.4	33.67	34.94	36.21	37.48	38.75	40.02	41.29	42.56	43.83
C = Distance between extremities (mm)	12.87	14.14	15.41	16.68	17.95	19.22	20.49	21.76	23.03	24.3	25.57	26.84	28.11	29.38	30.65	31.92	33.19	34.46	35.73	37	38.27	39.54	40.81	42.08	43.35	44.62	45.89	47.16	48.43

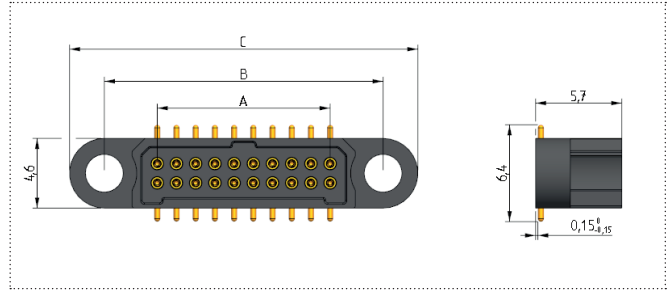


# OVERALL DIMENSIONS - MICRO HDAS

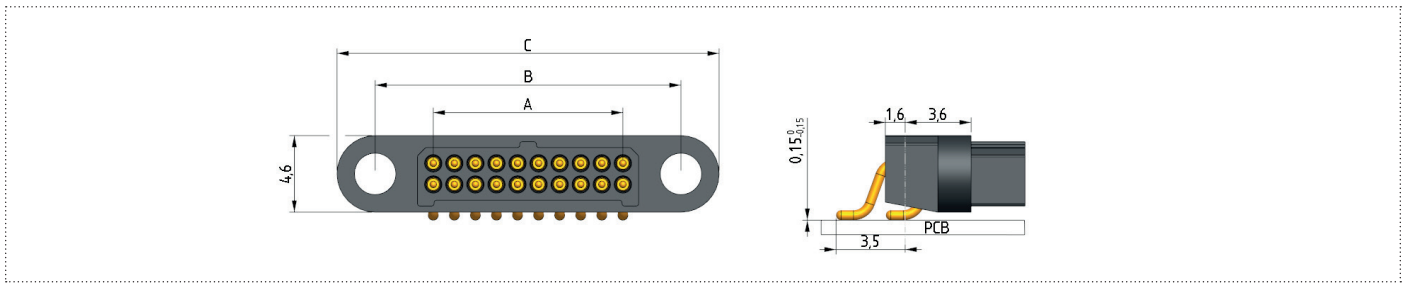
## Male Straight SMT



## Female Straight SMT



## Male 90° SMT

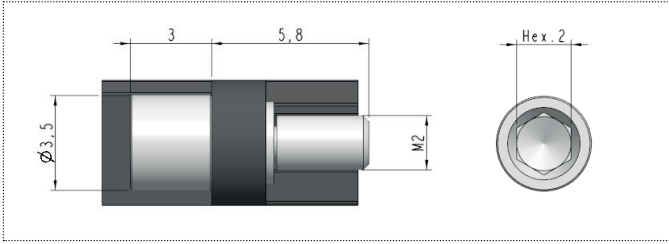


Dimension table

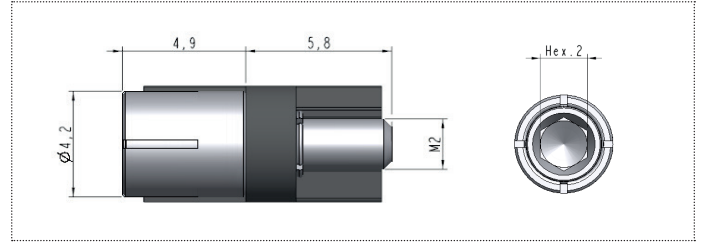
LF contact number	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60
A = Distance between pins (mm)	1.27	2.54	3.81	5.08	6.35	7.62	8.89	10.16	11.43	12.70	13.97	15.24	16.51	17.78	19.05	20.32	21.59	22.86	24.13	25.40	26.67	27.94	29.21	30.48	31.75	33.02	34.29	35.56	36.83
B = Distance between fittings (mm)	8.27	9.54	10.81	12.08	13.35	14.62	15.89	17.16	18.43	19.70	20.97	22.24	23.51	24.78	26.05	27.32	28.59	29.86	31.13	32.4	33.67	34.94	36.21	37.48	38.75	40.02	41.29	42.56	43.83
C = Distance between extremities (mm)	12.87	14.14	15.41	16.68	17.95	19.22	20.49	21.76	23.03	24.3	25.57	26.84	28.11	29.38	30.65	31.92	33.19	34.46	35.73	37	38.27	39.54	40.81	42.02	43.35	44.62	45.89	47.16	48.43

# FITTINGS - MICRO HDAS

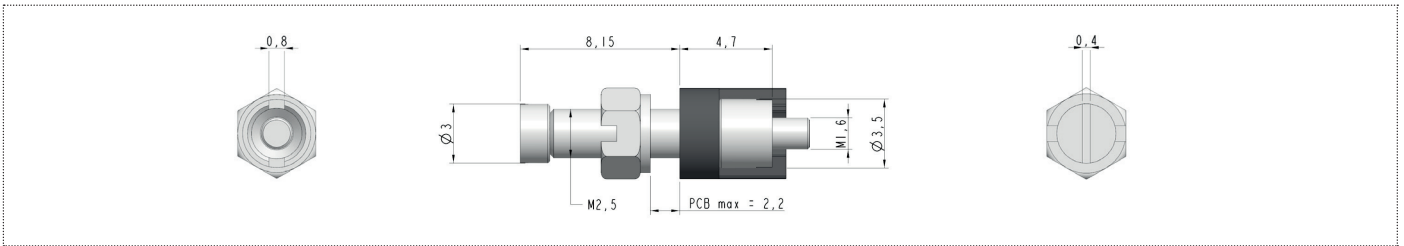
**E01**



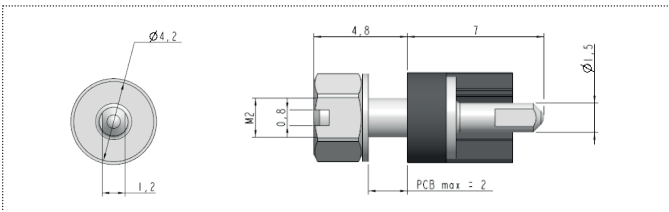
**E02**



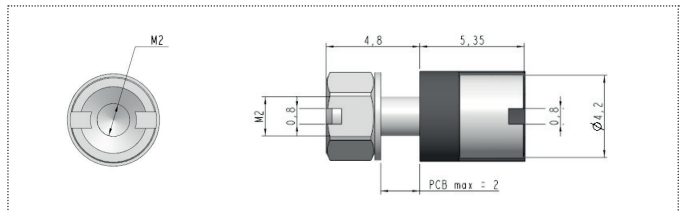
**E03**



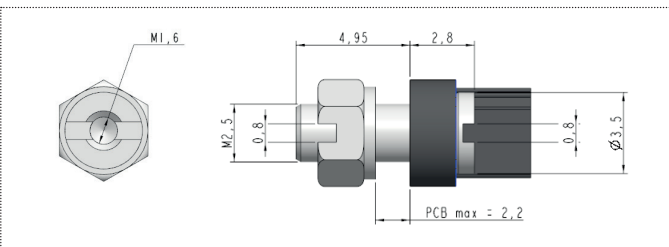
**E10**



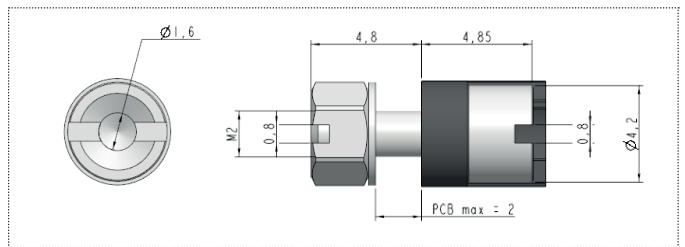
**E50**



**E53**



**E60**



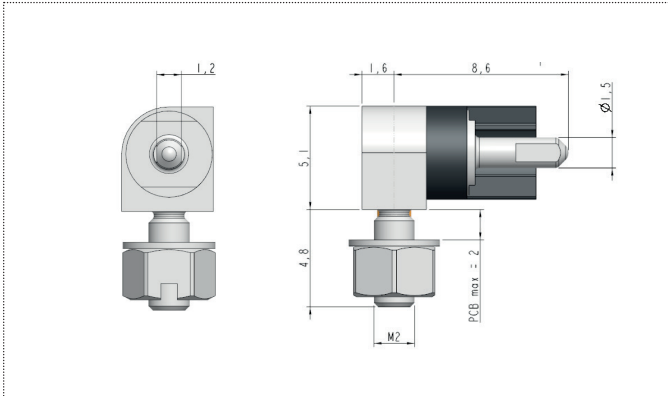
## Fittings compatibility

Signal Contact	Fitting	Torque (N.m)		Compatible with	
A - B - G - YD - T	<b>E01</b>	Jackscrew for harness	0.3		E50 or E51
	<b>E02</b>	Captive Screw for harness	0.3		E50 or E51
	<b>E03</b>	Jackscrew for PCB/Panel mount	On PCB: 0.25	On coupled part: 0.16	E53 or E63
	<b>E10</b>	Male straight guiding	0.3		E60 or E61
	<b>E50</b>	Female straight jackscrew	0.3		E01 or E02
	<b>E53</b>	Female straight jackscrew	0.3		E03
YC - R	<b>E60</b>	Female straight guiding	0.3		E10 or E11
	<b>E11</b>	Male 90° guiding	0.3		E60 or E61
	<b>E51</b>	Female 90° jackscrew	0.3		E01 or E02
	<b>E61</b>	Female 90° guiding	0.3		E10 or E11
	<b>E63</b>	Female 90° jackscrew	0.3		E03

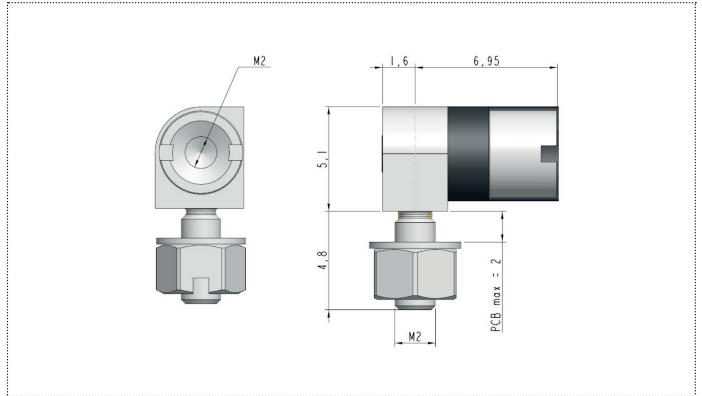


# FITTINGS - MICRO HDAS

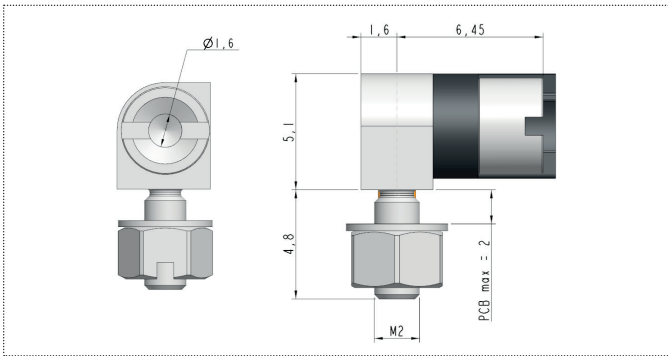
**E11**



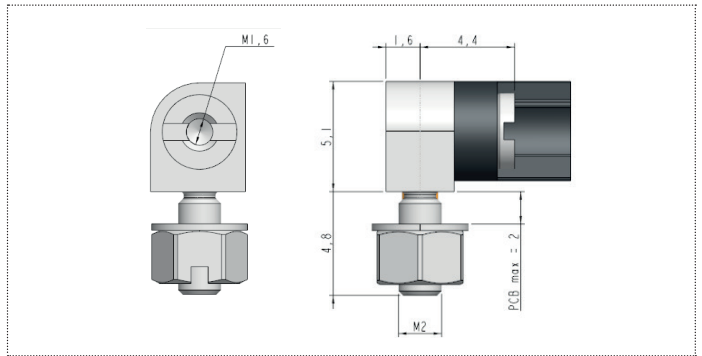
**E51**



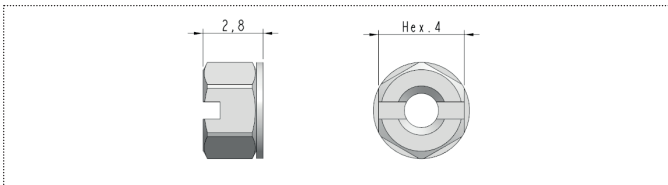
**E61**



**E63**



**Nut + washer**

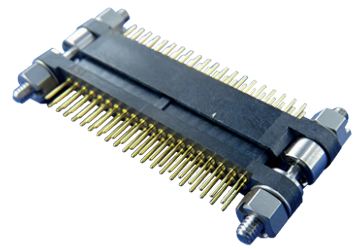


**Fittings compatibility**

Signal Contact	Fitting	Torque (N.m)		Compatible with	
A - B - G - YD - T	<b>E01</b>	JackscREW for harness	0.3		E50 or E51
	<b>E02</b>	Captive Screw for harness	0.3		E50 or E51
	<b>E03</b>	JackscREW for PCB/Panel mount	On PCB: 0.25	On coupled part: 0.16	E53 or E63
	<b>E10</b>	Male straight guiding	0.3		E60 or E61
	<b>E50</b>	Female straight jackscREW	0.3		E01 or E02
	<b>E53</b>	Female straight jackscREW	0.3		E03
	<b>E60</b>	Female straight guiding	0.3		E10 or E11
	YC - R	<b>E11</b>	Male 90° guiding	0.3	
<b>E51</b>		Female 90° jackscREW	0.3		E01 or E02
<b>E61</b>		Female 90° guiding	0.3		E10 or E11
<b>E63</b>		Female 90° jackscREW	0.3		E03







# HOW TO ORDER - MICRO HDAS

**Straight on PCB**

90° on PCB

For Harnesses



1.	2.	3.	4.	5.	6.
Series	Number of rows	Connector type	Number of contacts	Contact type	Fitting type
MHDAS	2	M	016	YD	E10

## 1. Series

**MHDAS** Micro HDAS 1.27mm pitch

## 2. Number of rows

**2** 2 rows connector

## 3. Connector type

**M** Male connector

**F** Female connector

## 4. Number of contacts

004	024	044
006	026	046
008	028	048
010	030	050
012	032	052
014	034	054
016	036	056
018	038	058
020	040	060
022	042	

## 5. Contact type



**YD** Straight PC tail standard ✓

**T** Straight SMT ✓

## 6. Fitting type

**E10** Male straight guiding

**E50** Female straight jackscrew

**E60** Female straight guiding

**E01** Jackscrew for harness

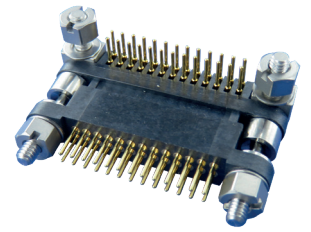
**E02** Captive screw for harness

**E03** Jackscrew for PCB/Panel mount

**E53** Female straight jackscrew

All the fittings type are compatible with male and female contacts.

# HOW TO ORDER - MICRO HDAS



Straight on PCB

**90° on PCB**

For Harnesses

1.	2.	3.	4.	5.	6.
Series	Number of rows	Connector type	Number of contacts	Contact type	Fitting type
<b>MHDAS</b>	<b>2</b>	<b>M</b>	<b>016</b>	<b>YC</b>	<b>E11</b>

## 1. Series

**MHDAS** Micro HDAS 1.27mm pitch

## 5. Contact type



**YC** Right angle PC tail standard ✓

**R** Right angle SMT (only male) ✓

## 2. Number of rows

**2** 2 rows connector

## 6. Fitting type

**E11** Male 90° guiding

**E51** Female 90° jackscrew

**E61** Female 90° guiding

**E63** Female 90° jackscrew

## 3. Connector type

**M** Male connector

**F** Female connector

## 4. Number of contacts

<b>004</b>	<b>024</b>	<b>044</b>
<b>006</b>	<b>026</b>	<b>046</b>
<b>008</b>	<b>028</b>	<b>048</b>
<b>010</b>	<b>030</b>	<b>050</b>
<b>012</b>	<b>032</b>	<b>052</b>
<b>014</b>	<b>034</b>	<b>054</b>
<b>016</b>	<b>036</b>	<b>056</b>
<b>018</b>	<b>038</b>	<b>058</b>
<b>020</b>	<b>040</b>	<b>060</b>
<b>022</b>	<b>042</b>	

All the fittings type are compatible with male and female contacts.



# HOW TO ORDER - MICRO HDAS



Straight on PCB

90° on PCB

**For Harnesses**

1.	2.	3.	4.	5.	6.
Series	Number of rows	Connector type	Number of contacts	Contact type	Fitting type
MHDAS	2	M	016	A	E02

## 1. Series

**MHDAS** Micro HDAS 1.27mm pitch

## 2. Number of rows

**2** 2 rows connector

## 3. Connector type

**M** Male connector

**F** Female connector

## 4. Number of contacts

004	024	044
006	026	046
008	028	048
010	030	050
012	032	052
014	034	054
016	036	056
018	038	058
020	040	060
022	042	

For harnesses, backpotting is recommended for enhanced protection.

## 5. Contact type



**A** Crimp AWG 24 ✓

**B** Crimp AWG 26 ✓

**G** Crimp AWG 28-30 ✓

Contacts A and B are the same ones. The differentiation comes from the addition of a ring in peek to crimp the AWG 24.

## 6. Fitting type

**E01** Jackscrew for harness

**E02** Captive screw for harness

**E10** Male straight guiding

**E50** Female straight jackscrew

**E60** Female straight guiding

**E03** Jackscrew for PCB/Panel mount

**E53** Female straight jackscrew

All the fittings type are compatible with male and female contacts.

## Order contacts:

Code	Reference		Type	Cable gauge
	Male	Female		
A	MHDASMAB	MHDASFAB	To be crimped	AWG 24
	MHDASARING			
B	MHDASMAB	MHDASFAB		AWG 26
G	MHDASMG	MHDASFG		AWG 28-30

# TOOLING & INSTRUCTION - MICRO HDAS

## Signal contact crimping tool

Reference	Description
<a href="#">MH800</a>	Hand crimp tool DANIELS
<a href="#">K2024</a>	Positioner for Micro HDAS signal contacts

Access our crimping instruction for Micro HDAS connector signal contacts : PCB-ER-020-Ext.



Scan me



**TECHNICAL NOTE**  
MHDAS : CRIMPING INSTRUCTIONS

## Signal contact insertion and extraction tool

Reference	Description
<a href="#">MHDASODIEC</a>	Insertion and extraction tool for Micro HDAS signal contacts

Access our insertion and extraction instruction for Micro HDAS connector signal contacts : PCB-ER-016-Ext.



Scan me



**TECHNICAL NOTE**  
MHDAS : CRIMP CONTACT INSERTION/EXTRACTION INSTRUCTION

## Backpotting

Amphenol Socapex recomend to do backpotting with Stycast 2651MM and Catalyst 9 (10%).



# ABOUT AMPHENOL

Founded in 1932, **Amphenol** is one of the largest manufacturers of interconnect products in the world. The company designs, manufactures, and markets electrical, electronic, and fiber optic connectors, interconnect systems, and coaxial and specialty cables.

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