

SMASH Series

High-Density and High-Performances PCB connector



Description

The SMASH connectors offers a very robust and highly reliable interconnect solution, perfectly suited to a wide variety of environments and applications.

It offers a very modular and very high-density solution thanks to its 2 electrical insert sizes, its chevron pattern and its 1.905mm [.075] pitch on 6 rows.

Based on an aluminium shell with 1, 2 or 3 electrical inserts, the SMASH connector can house up to 450 contacts.

Main Features

RUGGEDIZATION

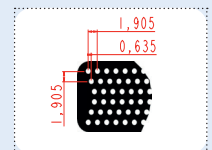
- Aluminium shell for electrical and environmental enhancements
- Ruggedized connector to meet extreme conditions in harsh environment

HIGH-PERFORMANCES

- Excellent mechanical, electrical and environmental reliability
- Extreme environmental performances
- Proven 6-fingers contact design to maintain electrical contact through high vibration and shock

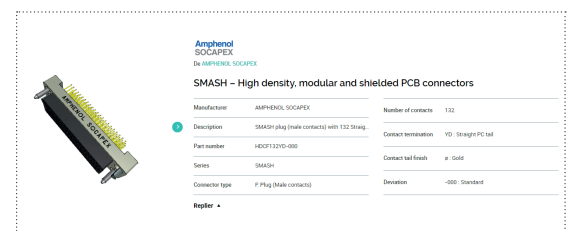
HIGH-DENSITY AND MODULARITY

- 1.905mm [.075] pitch on 6 rows and chevron grid pattern
- 2 electrical inserts sizes with 132 or 150 signal contacts
- 3 connector versions with 1, 2 or 3 electrical inserts
- 6 arrangements from 132 to 450 signal contacts
- Straight PC tail or Press fit contact termination available for plug and receptacle
- Flexible circuit termination of the plug can be used with daughter cards of various thicknesses



Online configurator & 3D model download

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



Markets & Applications



Commercial Aerospace



Military Aerospace



Military Vehicle



Electronic & Communication Systems



Missiles & Weapons

SMASH Series

Technical Specifications

MECHANICAL CHARACTERISTICS		MIL-DTL-55302 sections
Backoff ¹ (mm)	1.2 _{MAX} [.047]	-
Mating force per contact (N)	1	§ 4.5.4
Unmating force per contact (N)	0.4	
Durability cycles	500	§ 4.5.9
Sinusoidal vibrations (10 to 2000 Hz) micro discontinuity 2ns	15 g	§ 4.5.10
Random vibrations (600 to 700 Hz) no discontinuity greater than 2ns	2.682 g ² / Hz	EFA level
Shocks no discontinuity greater than 2ns	100 g / 6s	§ 4.5.14
ENVIRONMENTAL CHARACTERISTICS		
Thermal shocks (°C)	-65 / +150	§ 4.5.13
Number of cycles	5	
Salt Spray (hours)	144	§ 4.5.11
Humidity		
Days	10	§ 4.5.15
Temperature (°C)	25/65	
Humidity Rate (%)	90/98	
ELECTRICAL CHARACTERISTICS		
Current rating per contacts (A)	3 _{MAX}	§ 4.5.5
Insulation resistance (GΩ)	5 _{MIN}	§ 4.5.8
Contact resistance (mΩ)	10 _{MAX}	§ 4.5.12
Dielectric Withstanding Voltage (Vrms)	1000 _{MIN}	§ 4.5.7.1
Service voltage (at 50 Hz) (Vrms)	250	-

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.
Series	Connector type	Number of signal contacts	Contact termination type	Deviation	Contact tail finish
HDC	E	150	YD	-000	LF

1. Connector type		2. Number of signal contacts	3. Contact termination type	
F	Plug (Male contacts)	132	YD	Straight PC tail
		150	YP	Press fit
E	Receptacle (Female contacts)	264	U01	Surface Mount double sided (Plug only)
		300	Z	Solder Cup (Plug only)
		396		
		450		

4. Deviation		5. Contact tail finish	
-000	Standard	Blank	Gold on YD and YP male contacts ✓ Tin-Lead on U01 male contacts and YD and YP female contacts
Consult us	Specific version	LF	Pure Tin on YD female contacts only ✓

✓ : RoHS compliant

