High density PCB interconnects system for harsh environments applications
Amphenol Socapex increases the density in a SEM E form factor with its new SMASH PCB connector family.

In a chevron grid pattern (1,905mm spacing along the row with 1,905mm between rows, offset 0,635mm), Amphenol has reduced the size of the contacts to meet the today high density requirements.

Within an aluminum shell, each insert can house up to 150 signal contacts of various diameters.

The flexible circuit termination of the plug allows the usage of numerous thicknesses of daughter cards, by SMT soldering process.

No tooling required. The design of the flexible circuit termination provides a good alignment on the pads of the daughter cards (pitch of 0,635 mm). Compatible with all the soldering process (hand, hot bar ...)

Termination of the backplane connector contacts by straight PC tails for thru hole soldering.
Press fit termination, consult us.

The combination of the different materials permits the lead-free process if necessary.

Coding/guiding devices ensure the mechanical reliability.

Each connector is available in 3 versions (1, 2, or 3 bays).

The 6 lips clip provides an excellent electrical reliability.

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**TECHNICAL CHARACTERISTICS**

- Temperature range: -65°C to +150°C
- Corrosion resistance (144h salt spray)
- Vibration resistance: sinusoidal (10 to 2000Hz 15g) and random (2.682g²/Hz maxi between 600 and 700Hz) micro discontinuity 2ns
- Shock resistance: 100g micro discontinuity 2ns
- Current par contacts: 3A
- Screw machined cylindrical contacts
- Exceeds the MIL DTL 55302 requirements
APPLICATIONS

- Military Airborne
- Ordnance
- Space
- C4I

MATERIAL DATAS

- Insert in LCP with 30% glass fiber
- Male contact in brass alloy / gold over nickel plating
- Female contact in brass alloy / tin alloy plating
- Clip in copper beryllium alloy / gold over nickel plating
- Shells in Aluminum 6061 T6 / electroless nickel plating
- Coding devices in LCP with 30% glass fiber
- Guiding devices in 303 stainless steel

Your contact:

Olivier GAVARD
Product Manager
olivier.gavard@amphenol-socapex.fr

Tel: +33 (0) 4 50 89 28 11
Cell: +33 (0) 6 82 83 45 73
Fax: +33 (0) 4 50 96 29 75

Web-site: http://www.amphenol-socapex.com