U77-A4114-2001

Amphenol's SFP interconnect system consists of a 20-position connector enclosed in a metal cage mounted to a host PCB.

Amphenol single port and stacked SFP connectors are rated up to 6 Gbps. They are available in standard RoHS compliant or non-RoHS compliant versions. The cages have a one-piece construction with enhanced transceiver mating tabs available in press-fit version and solder tail version. Longer or shorter pins are available as custom options.

Single Row versions ( 1 xN ) consist of SMT connectors used with a separate single row cage (press-fit or solder tail). Stacked versions ( $2 \times N$ ) consist of a 2 row cage with integrated 2 row connectors. The entire assembly is press-fit compliant pin.

## Specification Highlights

The interconnect system is comprised of a cage assembly which is used with 20-position
SFP connectors complying with MSA Agreement INF-8074i.

## General Characteristics

- RoHS compliant
- Industry standard footprint
- Industry standard EIA-364


## Mechanical Characteristics

- Accepts multiple transceivers per INF-8074i
- Compliant press-fit pins or solder tails (1x1 cages)
- Durability: 250 mating cycles minimum


## Electrical Characteristics

- Hot swappable
- Operating voltage: 3.3 V
- Operating current: 0.5 A
- Differential impedance: $100 \Omega+/-10 \Omega$
- DWV: 300 V AC
- Insulation resistance: $1000 \mathrm{M} \Omega$ min
- Contact resistance: $70 \mathrm{~m} \Omega \max$
- Spring fingers for superior EMI grounding


## Packaging

- Tape and reel packaging: connector or $1 \times 1$ cage
- Tray packaging: cage of all sizes
- Bulk packaging: dust cover


## Materials

- Cage
- Base material: copper alloy
- Plating: nickel or tin
- Light pipe: optical grade polycarbonate
- Heat sink: aluminum alloy
- Heat sink clip: stainless steel
- Dust cover: thermoplastic
- EMI ground tabs: stainless steel
- Connector
- Contact base material: copper alloy
- Contact plating: gold on mating area; gold or matte tin on termination
- Housings: glass reinforced, lead-free solder reflow process compatible thermoplastic, UL94V-0 rated

Temperature Rating

- Operating temperature: $-55^{\circ} \mathrm{C}$ to $+85^{\circ} \mathrm{C}$
- Storage temperature: $-55^{\circ} \mathrm{C}$ to $+105^{\circ} \mathrm{C}$

Configurations (Rows x Ports per row)

- 1x1 •1x2 •1x4 •1x6
- $2 \times 1$ - $2 \times 2$ - $2 \times 4$ - $2 \times 6$


## Options

- Light pipes
- Heat sink (standard fin for final cage combo)
- Enhanced EMI performance cage
- Dust cover


$2 \times 1$ SFP Combo (Customized Version) U78-B112C-00121


2x4 SFP Combo
U78-B4127-00121


2x2 SFP Combo
U86-K2127-10121

