



## U77-A1118-2001

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 (1xN) consist of SMT connectors used with a separate single row cage (press-fit or solder tail). Stacked versions (2xN) 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 M $\Omega$  min
- Contact resistance: 70 m $\Omega$  max
- Spring fingers for superior EMI grounding

## Packaging

- Tape and reel packaging: connector or 1x1 cage
- Tray packaging: cage of all sizes
- Bulk packaging: dust cover

#### **Materials** Cade

- 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

2x2 SFP Combo

· Housings: glass reinforced, lead-free solder reflow process compatible thermoplastic, UL94V-0 rated

# **Temperature Rating**

- Operating temperature: -55 °C to +85 °C
- Storage temperature: -55 °C to +105 °C

## **Configurations** (Rows x Ports per row)

• 1x1	• 1x2	• 1x4	• 1x6
• 2x1	• 2x2	• 2x4	• 2x6

## **Options**

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

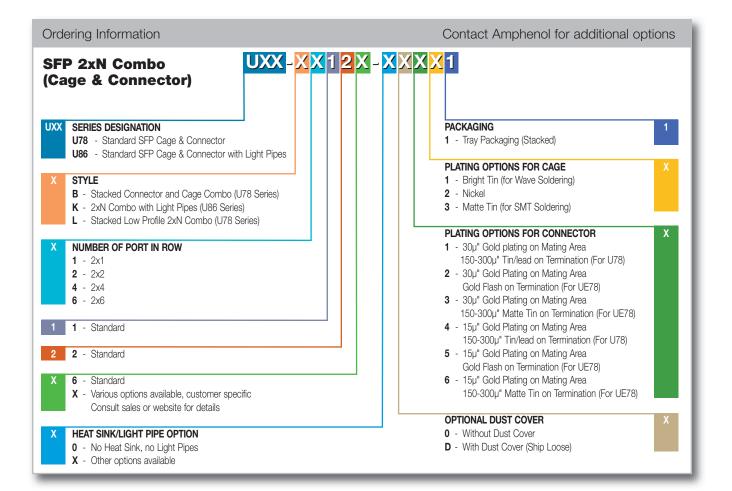


1x4 SFP cage with heat sinks U77-E4124-2041

# SFP 2xN Cage & Connector Combos



U78-B1126-00121

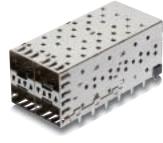




2x1 SFP Combo (Customized Version) U78-B112C-00121



2x4 SFP Combo U78-B4127-00121



2x2 SFP Combo U86-K2127-10121