

# SFP



U77-A1118-2001



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 (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

- 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

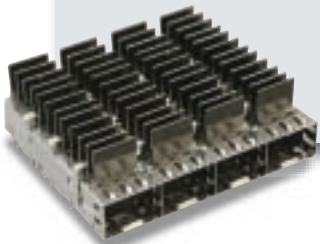
- Operating temperature: -55 °C to +85 °C
- Storage temperature: -55 °C to +105 °C

### Configurations (Rows x Ports per row)

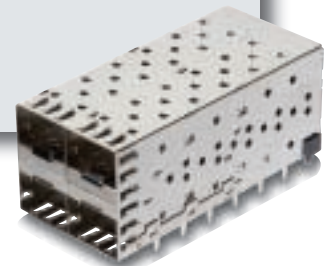
- |       |       |       |       |
|-------|-------|-------|-------|
| • 1x1 | • 1x2 | • 1x4 | • 1x6 |
| • 2x1 | • 2x2 | • 2x4 | • 2x6 |

### 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



2x2 SFP Combo  
U78-B2127-00121

# SFP 1xN Cages & Connectors



UE75-A20-2000T

**HIGH SPEED**  
I/O PRODUCTS

## Ordering Information

Contact Amphenol for additional options

### SFP Connector

(Used with 1xN cages)

**UE75 - A 20 - X X 0 X X**

**UE75** SERIES DESIGNATION (RoHS)

**A**

#### STYLE

**A** - R/A Single Surface Mount Connector

**20**

#### NUMBER OF POSITIONS

**20** - 20 Positions

**X**

#### CONTACT PLATING

- 2** - 30µ" Gold plating on Mating Area  
Gold Flash on Termination
- 3** - 30µ" Gold plating on Mating Area  
Matte Tin Plating on Termination
- 5** - 15µ" Gold plating on Mating Area  
Gold Flash on Termination
- 6** - 15µ" Gold plating on Mating Area  
Matte Tin Plating on Termination

#### PACKAGING

- J** - Tape and Reel Packaging 480/Reel
- T** - Tape and Reel Packaging 500/Reel

#### LUBRICANT OPTION

- 0** - Non Lubricated
- 1** - Lubricant Added

#### OPTION 1

- 0** - Standard (Black)

## Ordering Information

Contact Amphenol for additional options

### SFP Cage

(1xN)

**U77 - X X X X X - X X X X X**

**U77** SERIES DESIGNATION

**X**

#### STYLE

- A** - One Row
- C** - One Row Cage + Light Pipe Combo (on Top)
- E** - One Row Cage + Heat Sink Combo
- F** - One Row Cage 1 degree Angle

**X**

#### NUMBER OF PORT IN ROW

- 1** - Single in Row
- 2** - Inline 1x2
- 4** - Inline 1x4
- 6** - Inline 1x6

**X**

#### CHASSIS GROUNDING OPTIONS

- 1** - Metal Grounding Tabs
- 2** - Inner and Outer Flexible Spring Fingers

**X**

#### HEAT SINK/LIGHT PIPE OPTION

- 1** - No Heat Sink/Light Pipe Option
- 2** - Heat Sink Option
- 3** - Light Pipe Option (for 1xN Cage Only)

#### PACKAGING

- 1** - Tray Packaging (ACC Re-Packaged)
- T** - Tape and Reel Packaging (For 1x1 only)

#### OPTION 1

- 0** - Standard
- 1** - Cage With Light Pipe on Top
- 8** - Cage with Half Moon Mid G-pins

#### OPTIONAL DUST COVER

- 0** - Without Dust Cover
- D** - With Dust Cover (Ship Loose)

#### PLATING

- 1** - Bright Tin (For Wave Solder)
- 2** - Nickel
- 3** - Matte Tin (For Reflow 245 degree)

#### PCB MOUNTING OPTIONS

Various options available  
Consult sales or website for details



1x6 SFP cage with light pipes  
U77-C6114-2011