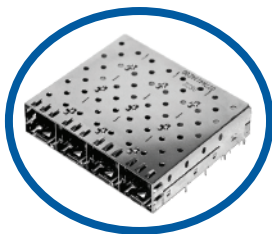


Amphenol's SFP interconnect system consists of a 20-position connector enclosed in a metal cage mounted to a host PCB.

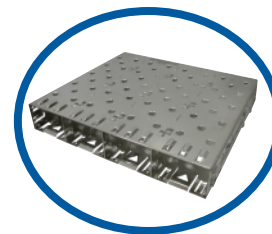
Amphenol's single port SFP connectors are rated up to 6 Gbps. The connector accepts multiple transceivers per INF-8074i and combines, transmits, and receives functions in a low cost, compact, and flexible format. The cages have a two-piece construction with enhanced transceiver mating tabs available in a press-fit version or a solder tail version. Longer and 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).



U77-A2114-2001



U77-A4114-2001



U77-A4113-0100

## 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 min

### 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 Cage
- Tray Packaging: Cage of all Sizes
- Bulk Packaging: Dust Cover

## Materials

- Cage
  - o Base Material: Copper Alloy
  - o Plating: Nickel or Tin
  - o Light Pipe: Optical Grade Polycarbonate
  - o Heat Sink: Aluminum Alloy
  - o Heat Sink Clip: Stainless Steel
  - o Dust Cover: Thermoplastic
  - o EMI Ground Tabs: Stainless Steel
- Connector
  - o Contact Base Material: Copper Alloy
  - o Contact Plating: Gold on Mating Area, Gold or Matte Tin on Termination
  - o 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

## Options

- Dust Cover
- Light Pipe
- Heat Sink (Standard Fin for Final Cage Combo)
- Enhanced EMI Performance Cage



U77-C6114-2011



U77-E1128-2001

# Ordering Information

## SFP Connector

UE75 - A 20 - X 0 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 - 30  $\mu$ " Gold Plating on Mating Area; Gold Flash on Termination

3 - 30  $\mu$ " Gold Plating on Mating Area; Matte Tin Plating on Termination

5 - 15  $\mu$ " Gold Plating on Mating Area; Gold Flash on Termination

6 - 15  $\mu$ " Gold Plating on Mating Area; Matte Tin Plating on Termination

**PACKAGING**

J - Tape and Reel Packaging (480 per Reel)

T - Tape and Reel Packaging (500 per Reel)

**LUBRICANT OPTION**

0 - Non Lubricated

1 - Lubricant Added

0 - Standard

**OPTION 1**

0 - Standard

## SFP Cage

U77 - 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 (For 1x1 Only)

**X** NUMBER OF PORTS IN ROW

1 - Single in Row

2 - Inline 1x2

4 - Inline 1x4

6 - Inline 1x6

**X** CHASSIS GROUNDING

1 - Metal Grounding Tabs

2 - Inner and Outer Flexible Spring Fingers

**X** HEAT SINK / LIGHT PIPE OPTION

1 - No Heat Sink / Light Pipe

2 - Heat Sink

3 - Light Pipe (for 1xN Cage Only)

**PACKAGING**

1 - Tray Packaging (ACC Re-Packed)

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

**DUST COVER OPTION**

0 - Without Dust Cover

D - With Dust Cover (Shipped Loose)

**PLATING**

1 - Bright Tin (for Wave Solder)

2 - Nickel

3 - Matte Tin (for Reflow 245 degrees)

**PCB MOUNTING OPTION**

X - Various Options Available

Consult Sales or Website for Details