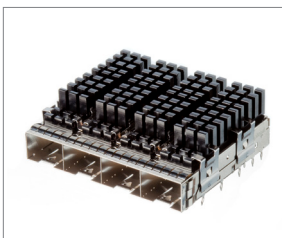# SFP

Product Description

Amphenol's SFP product family supports applications for up to 6 Gbps per channel. The connector accepts multiple transceivers per INF-8074i and combines, transmits, and receives functions in a low cost, compact format. The assemblies are designed to maximize valuable space on the PCB. The cages have a two-piece construction with enhanced transceiver mating tabs available in a Press-Fit version or a solder tail version. Light pipes are designed to deliver a "link" or "no link" status using LEDs attached on the PCB.

Applications		SFF Supported Standards
Storage	Cellular Infrastructure	Connector SFF-8071
Network Interface	Hubs and Servers	Cage SFF-8432
Test and Measurement Equipment	Switches	Ganged SFF-8433

Product Specifications - SFP			
	CONNECTOR		**CAGE**
Materials Specifications			
Housing	Black color, Glass reinforced , Lead Free Solder Reflow Process Compatible Thermo Plastic	**PCB Thickness**	
Contacts Base Material	Phosphor Bronze	**Solder-Post and Press-Fit**	1.45 mm (0.057in.)
Contact Normal Force	100 grams	**"Belly to Belly"**	3.00 mm (0.118in.)
Plating Solder Tails	Matte tin or Gold flash options		
Plating Mating Area	Gold		
Operating & Storage Temperature	-55° C to 85° C		
Electrical Specifications			
Operating Voltage	30 VDC per contact		
Operating Current	0.5 A per contact		
Differential Impedance	100 Ω +/-10 Ω		
Mechanical Specifications			
Mating Force	50 N max.	**Unmating Force**	11.50 N max.
Durability	250 mating cycles	**Insertion Force to PCB**	500 N for 1 port (1x1 cage) 1000 N for 2 port (1x2 cage) 2100 N for 4 port (1x4 cage) 3000 N for 6 port (1x6 cage)
Options			
Packaging	Tape and Reel	**Packaging**	Tray, Tape and Reel Available for Single Port
EMI Options, Heat Sink and Clip	Available		
Configurations	1XN (N = 1,2,3,4,6) 2XN (N = 1,2,4,5,6,8)		
Environmental specifications			
RoHS	Yes		
Halogen Free	Yes		
Flammability Rating	UL 94V-0		

Ordering Information

SFP Connector

UE75 A 20 X 0 0 0 T

UE75	**SERIES DESIGNATION**
A	**STYLE**
	A - R/A Single Surface Mount Connector
20	**NUMBER OF POSITIONS**
	20 - 20 Positions
X	**CONTACT PLATING**
	2 - 30 µ" (0.76 µm) Gold Plating on Mating Area; Gold Flash on Termination
	3 - 30 µ" (0.76 µm) Gold Plating on Mating Area; Matte Tin on Termination
	5 - 15 µ" (0.38 µm) Gold Plating on Mating Area; Gold Flash on Termination
	6 - 15 µ" (0.38 µm) Gold Plating on Mating Area; Matte Tin on Termination

PACKAGING		**T**
T - Tape & Reel (500/Reel)		
OPTION 3		**0**
0 - Standard		
OPTION 2		**0**
0 - Standard		
OPTION 1		**0**
0 - Standard		

SFP Cage

U77 X X X X X X X X X

U77	**SERIES DESIGNATION**
X	**STYLE**
	A - 1 Row
	C - 1 Row Cage; Light Pipe Combo (Top)
	E - 1 Row Cage; Heat Sink Combo (Fin)
	F - 1 Row Cage; 1° Angle (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 & Outer Flexible Spring Fingers
X	**HEAT SINK / LIGHT PIPE**
	1 - No Heat Sink / Light Pipe
	2 - Heat Sink
	3 - Light Pipe (1XN Cage Only)
X	**PCB MOUNTING**
	X - Various Options Available - Consult Factory

PACKAGING		**X**
1 - Tray (ACC Re-Packed)		
T - Tape & Reel (1X1 Only)		
A - Heat Sink Shipped Assembled (1X1 Only)		
OPTION 1		**X**
0 - Standard		
1 - Cage with Light Pipe on Top		
8 - Cage with Half-Moon Mid G-Pins		
DUST COVER		**X**
0 - Without Dust Cover		
D - With Dust Cover (Shipped Loose)		
PLATING		**X**
1 - Bright Tin (for Wave Solder)		
2 - Nickel		
3 - Matte Tin (for Reflow 245°)		

SFP 2XN Cage/Connector Combo

UEXX X X X 2 X X X X X 1

UEXX	**SERIES DESIGNATION**
	UE78 - Standard SFP Cage & Connector
	UE86 - Standard SFP Cage & Connector with Light Pipes
X	**STYLE**
	B - Stacked Connector/Cage Combo - **UE78 Series**
	D - 2XN, Small Light Pipe Openings - **UE86 Series**
	K - 2XN, Large Light Pipe Openings - **UE86 Series**
	L - 2XN, Low Profile Combo (No Light Pipe) - **UE78 Series**
X	**NUMBER OF PORTS IN ROW**
	1 - 2X1
	2 - 2X2
	4 - 2X4
	5 - 2X5
	6 - 2X6
	8 - 2X8
X	**EMI SHIELDING**
	1 - Standard
	2 - Bottom Insulating Tape, No Mid Ground Pins
	3 - No Mid Ground Pins
2	**OPTION 1**
	2 - Standard

PACKAGING		**1**
1 - Tray (Stacked)		
PLATING OPTION: CAGE		**X**
1 - Bright Tin (for Wave Soldering)		
2 - Nickel		
3 - Matte Tin (for SMT Soldering)		
PLATING OPTION: CONNECTOR		**X**
X - Various Options Available - Consult Factory		
DUST COVER		**X**
0 - Without Dust Cover		
D - With Dust Cover (Shipped Loose)		
HEAT SINK/LIGHT PIPE		**X**
0 - No Heat Sink / Light Pipe		
X - Various Options - Consult Factory		
PCB MOUNTING		**X**
7 - Standard		
X - Various Options - Consult Factory		

Amphenol®
High Speed Interconnects

Order Information:
P: 416.291.4401 | **F:** 416.292.0647 | **E:** cages@amphenol-highspeed.com

For more information consult factory or visit amphenol-highspeed.com

Product Applications; List represents common uses for the product but is not limited to these uses.

RoHS COMPLIANT

Mouser Electronics

Authorized Distributor

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