

# CFP2

## Product Description

CFP2 series offers a 104 position, 0.6mm pitch connector designed to be compatible with 100 Gbps Form Factor Pluggable (CFP) Multi-Source Agreement for Ethernet and other applications. It is used in multi-hundred Gbps systems and is comprised of insert molding assemblies for top contacts and Press-Fit cage assemblies. Rated for 25 Gbps per channel with resonance dampening for improved signal integrity, CFP2 has up to 60% lower power consumption versus CFP. An optional riding heat sink ensures proper thermal dissipation. Compliant with IEEE and ITU-T applications, the CFP2 footprint is compatible with other industry suppliers.

Applications	Supported Standards
Carrier Networks and Data Centers Large Data Center Campus Connectivity Metro Area Networks	CFP2 MSA

Product Specifications - CFP2			
CONNECTOR		CAGE	
<b>Materials Specifications</b>			
<b>Housing</b>	Black color, Glass reinforced , Lead Free Solder Reflow Process Compatible Thermo Plastic	<b>PCB Thickness</b>	3.00 mm (0.118 in.)
<b>Contacts Base Material</b>	Phosphor Bronze		
<b>Contact Normal Force</b>	40 grams		
<b>Plating Mating Area</b>	Gold		
<b>Plating Solder Tails</b>	Matte tin		
<b>Resonance Dampening Feature</b>	Conductive Polymer		
<b>Operating Temperature</b>	-40° to +85° C		
<b>Electrical Specifications</b>			
<b>Operating Voltage</b>	3.3 VDC per contact		
<b>Operating Current</b>	3.75A per contact		
<b>Differential impedance</b>	100 Ω +/- 10 Ω		
<b>Mechanical Specifications</b>			
<b>Mating Force</b>	80 N	<b>Unmating Force</b>	50 N
<b>Durability</b>	200 mating cycle	<b>Insertion Force to PCB</b>	2 port- 2000N max
<b>Options</b>			
<b>Packaging</b>	Tape and Reel	<b>Packaging</b>	Tray
<b>EMI Options</b>	Available		
<b>Configurations</b>	1 X1, 1X2		
<b>Environmental Specifications</b>			
<b>RoHS</b>	Yes		
<b>Halogen Free</b>	Yes		
<b>Flammability Rating</b>	UL 94V-0		



# Ordering Information

**CFP2 Connector**      UXX   B   104   X   0   0   T

<b>UXX</b>	<b>SERIES DESIGNATION</b> U99 - CFP2 Host Connector U56 - CFP2 Plug Connector	<b>PACKAGING</b> T - Tape & Reel (U99) 1 - Tray (U56)	T
<b>B</b>	<b>STYLE</b> B - CFP2	<b>OPTION 2</b> 0 - Standard	0
<b>104</b>	<b>NUMBER OF POSITIONS</b> 104 - 104 Positions	<b>OPTION 1</b> 0 - Standard	0
		<b>CONTACT PLATING</b> 2 - 30 μ" (0.76 μm) Minimum Of Gold On Mating End With 100 μ" (2.54 μm) Minimum Of Matte Tin On Solder Termination, 50 To 75 Micro Inches Of Nickel Under Plate All Over 3 - 15 μ" (0.38 μm) Minimum Of Gold On Mating End With 100 μ" (2.54 μm) Minimum Of Matte Tin On Solder Termination, 50 To 75 Micro Inches Of Nickel Under Plate All Over	X

**CFP2 Cage**      U98   B   X   X   X   1   X   X   1

<b>U98</b>	<b>SERIES DESIGNATION</b>	<b>PACKAGING</b> 1 - Tray	1
<b>B</b>	<b>STYLE</b> B - CFP2 Cage	<b>CONNECTOR COVER</b> 0 - With Connector Cover, No Kickout Spring A - Without Connector Cover or Kickout Spring B - Without Connector Cover, With Kickout Spring C - With Connector Cover & Kickout Spring	X
<b>X</b>	<b>NUMBER OF PORT IN ROW</b> 1 - NX1 2 - NX2	<b>OPTIONAL DUST COVER</b> 0 - Without Dust Cover D - With Dust Cover (Shipped Loose)	X
<b>X</b>	<b>HEAT SINK OPTION</b> 1 - No Heat Sink or Clip Shipped 2 - Standard Side to Side Fin, Aluminum Alloy, 10.75mm High, (Black Anodized) with Clip 4 - Side to Side Fin, Aluminum Alloy, 7.75mm High, (Black Anodized) with Clip D - Front to Back Fin, Aluminum Alloy, 10.75mm High, (Nickel Plated) with Clip M - Front to Back Fin, Aluminum Alloy, 10.75mm High, (Black Anodized) with Clip	<b>PLATING</b> 1 - Nickel	1
<b>X</b>	<b>INSULATING TAPE OPTION</b> 1 - Standard (No Insulating Tape) 2 - With Insulating Tape on Bottom Cage		



**Order Information:**

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For more information consult factory or visit [amphenol-highspeed.com](http://amphenol-highspeed.com)

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

