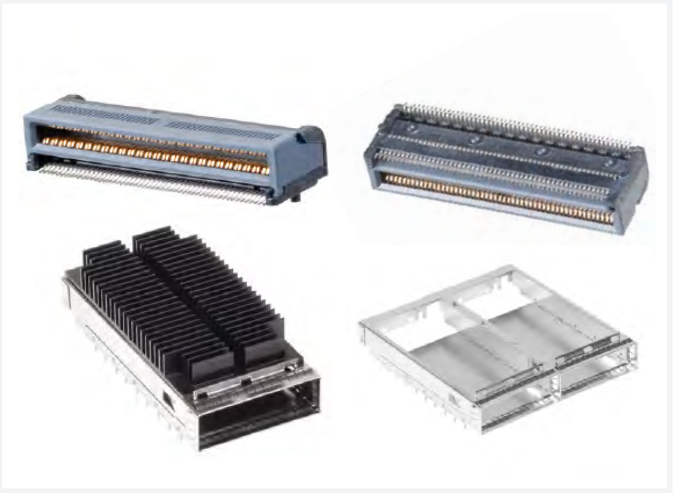
CFP2

Amphenol ICC's CFP2 series offers a 104 position, 0.6mm pitch connector designed to be compatible with 100Gb/s Form Factor Pluggable (CFP) Multi-Source Agreement for Ethernet and other applications. It is used in multi-hundred Gb/s systems and is comprised of insert molding assemblies for top contacts and press-fit cage assemblies. Rated for 25Gb/s 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. Compatible with IEEE and ITU-T applications, the CFP2 footprint is compliant with other industry suppliers.



TARGET MARKETS

TECHNICAL INFORMATION

MATERIAL

- Housing: Black color, Glass reinforced, Lead Free Solder Reflow Process Compatible Thermo Plastic
- Contacts Base Material: Phosphor Bronze
- Plating Solder Tails: Matte tin
- Plating Mating Area: Gold
- Resonance Dampening Feature: Conductive Polymer

MECHANICAL PERFORMANCE

- Durability: 200 mating cycles
- Mating Force: 80 N max.
- Contact Normal Force: 40 grams
- PCB Thickness (Cage): 3.00 mm (0.118 in.)
- Unmating Force (Cage): 50 N
- Insertion Force to PCB (Cage): 2 port – 2000N max.

ELECTRICAL PERFORMANCE

- Operating Voltage: 3.3 V DC per contact
- Operating Current (per power pin): 0.5A maximum (Class 4 or lower) / 1.25A maximum (Class 5 and 6)
  - Please contact the manufacturer for specific requirements over 0.5A per pin
- Operating Current (per signal pin): 0.5A maximum
- Differential Impendance: 100Ω +/– 10Ω

ENVIRONMENTAL

- Operating and (Storage) Temperature: –40°C to +85°C
- RoHS & Halogen-Free

TOOLING INFORMATION

- Configurations: 1X1, 1X2

TARGET MARKETS/APPLICATIONS

Metro Area Networks

Carrier Networks and Data Centers
Large Data Center Campus Connectivity

PART NUMBER SELECTOR

CFP2 Connector

UXX	B	104	X	0	0	T

Series Designation	
U90	CFP2 Host Connector
U56	CFP2 Plug Connector

Style	
B	CFP2

Number of Postions	
104	104 Positions

Packaging	
T	Tape & Reel
1	Tray (U56)

Option 2	
0	Standard

Option 1	
0	Standard

Style	
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 TinOn Solder Termination, 50 To 75 Micro Inches Of Nickel Under Plate All Over

CFP2 Cage

U98	B	X	X	X	1	X	X	1

Style	
B	CFP2 Cage

Number of Port in row	
1	1X1
2	1X2

Heat SInk Options	
1	No Heat Sink & No 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

Insulating Tape Option	
1	Standard (No Insulating Tape)
2	With Insulating Tape on Bottom Cage

Plating	
1	Nickel

Packaging	
1	Tray

Connector Cover	
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

Optional Dust Cover	
0	Without Dust Cover
D	With Dust Cover (Shipped Loose)

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