ExpressPort™ SFP+ 1xN Cage & Connector







Amphenol's ExpressPort™ SFP+ 1xN Connector, when combined with the ExpressPort™ SFP+ Cages, provides data transfers speeds of up to 14 Gbps. The design of the ExpressPort™ SFP+ Connector minimizes impedance discontinuities and reflections at high data rates, and provides a 10 to 20 dB improvement in Near-End Crosstalk.

Amphenol's unique ExpressPort™ SFP+ cage construction features EMI shielding available in the form of metal spring fingers, or elastomeric gaskets. These cages also eliminate ventilation holes near the front of the cage to prevent potential catch points for the mating module EMI springs. Additional features include light pipes, which can be purchased with cages or separately, heat sinks, and other custom features.

Specification Highlights

The interconnect system is comprised of a cage assembly which is used with 20-position SFP+ connectors complying with SFF-8083. Cages comply with industry standard SFF-8433.

General Characteristics

- RoHS compliant
- Industry standard footprint
- Industry standard EIA-364

Mechanical Characteristics

- Accepts multiple transceivers per INF-8074i and SFF-8431
- 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 Ω +/-10 Ω
- DWV: 300 V AC
- Insulation resistance: 1000 M Ω min
- Contact resistance: 70 m Ω max

Options

- EMI shielding
 - Metal spring fingers
 - Conductive elastomeric gasket
- · Round light pipe
- Heat sink
- 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
- 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)

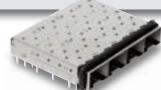
• 1x1 • 1x2 • 1x4 • 1x6

Packaging

- Tape and reel packaging: connector or 1x1 cage
- Tray packaging: cage of all sizes
- · Bulk packaging: dust cover



1x1 SFP+ Cage with Light Pipes and Elastomeric Gasket U77-C1419-2001



1x4 SFP+ Cage with Elastomeric Gasket U77-A441M-2081



1x6 SFP+ Cage with Light Pipes and Elastomeric Gasket U77-C641M-2081



