



## XFP Products

### Product Facts

- 10 Gb/s serial link
- EMI containment features
  - Module to XFP Cage
  - XFP Cage to Chassis
- Uses 30 pin surface mount connector
- Patented riding heat sink for thermal management
- Press fit cage termination
- Designed to support belly-to-belly applications
- UL/CSA Report File E28476  



XFP was developed to provide 10Gb/s serial links for a wide range of applications including standards such as OC192/STM-64, G.709, and 10 Gigabit Ethernet.

The cage /plug interface features an intuitive latch system, gasketing features for excellent EMI contain-

ment, and was the first pluggable interface to incorporate patented riding heat sink technology for thermal dissipation. The heat sink is mounted to the cage using a clip, which provides a load to maintain contact between heat sink and module. Heat sinks are

available in three heights, and custom heat sinks are possible. This heat sink technology has extended to SFP and QSFP applications. The XFP connector is a 30 position PT connector, using the same design as used in SFP for established performance and reliability.

### Technical Documents

**Instruction Sheet**  
408-8723

**Application Specification**  
114-13096

**Product Specifications**  
108-2127

**XFP Standard**  
SFF Document INF-8077

### Cages

Part Number	Description	PCB Attachment
1489951-1	XFP Cage	Press Fit
1658871-1	XFP Cage w/Insulating Tape	Press Fit
1888101-1	XFP Cage without Rear Gasket	Press Fit
1658945-1	XFP Cage w/Insulating Tape & without Rear Gasket	Press Fit
1888116-1	XFP Kit: XFP Cage with SAN Heat Sink (6.5mm)	Press Fit
1888116-2	XFP Kit: XFP Cage with PCI Heat Sink (4.2mm)	Press Fit
1888065-1	XFP Kit: XFP Cage with Networking Heat Sink (13.5mm)	Press Fit
1888481-1	XFP Kit: XFP Cage w/insulating tape and SAN Heat Sink (6.5mm)	Press Fit
1888481-2	XFP Kit: XFP Cage w/insulating tape and PCI Heat Sink (4.2mm)	Press Fit
1888481-3	XFP Kit: XFP Cage w/insulating tape w/Networking Heat Sink (13.5mm)	Press Fit

### Connectors, Heatsinks, and Accessories

Part Number	Description
788862-1	30 Pos SMT XFP Conn. 0.38 $\mu$ m (15 $\mu$ in) gold plating
788862-2	30 Pos SMT XFP Conn. 0.76 $\mu$ m (30 $\mu$ in) gold plating
1367500-1	30 Pos SMT XFP Conn. 0.76 $\mu$ m (30 $\mu$ in) gold plating with contact treatment, and enhanced contact for high speed signals
1489948-2	XFP Heat Sink Clip
1888810-2	XFP EMI/Dust Plug
1542656-2	SAN Heat Sink (6.5mm)
1542618-2	PCI Heat Sink (4.2mm)
1542706-2	Networking Heat Sink (13.5mm)

PCI is a trademark of PCI-SIG.

**Note:** All part numbers are RoHS compliant.

## XFP Copper Cable Assemblies

### Product Facts

- SFF 30 position PCB interface
- Designed for 10Gbps serial systems
- Hot pluggable
- Cable wire size 24 AWG
- Active or passive assemblies
- Standard lengths up to 1 meter for passive and 5 meters for active
- Excellent EMI/RFI shielding
- Compatible with MSA compliant XFP cages

### Applications

- Data networking
- Telecommunications switches (SONET)
- Enterprise storage
- Network switches and routers



Tyco Electronics XFP (10 G Small Form Factor Pluggable) copper cable assemblies support all 10 GBPS Fibre Channel and 10 Gbps Ethernet applications.

### SFP Direct Attach Cable Assembly Part Numbers

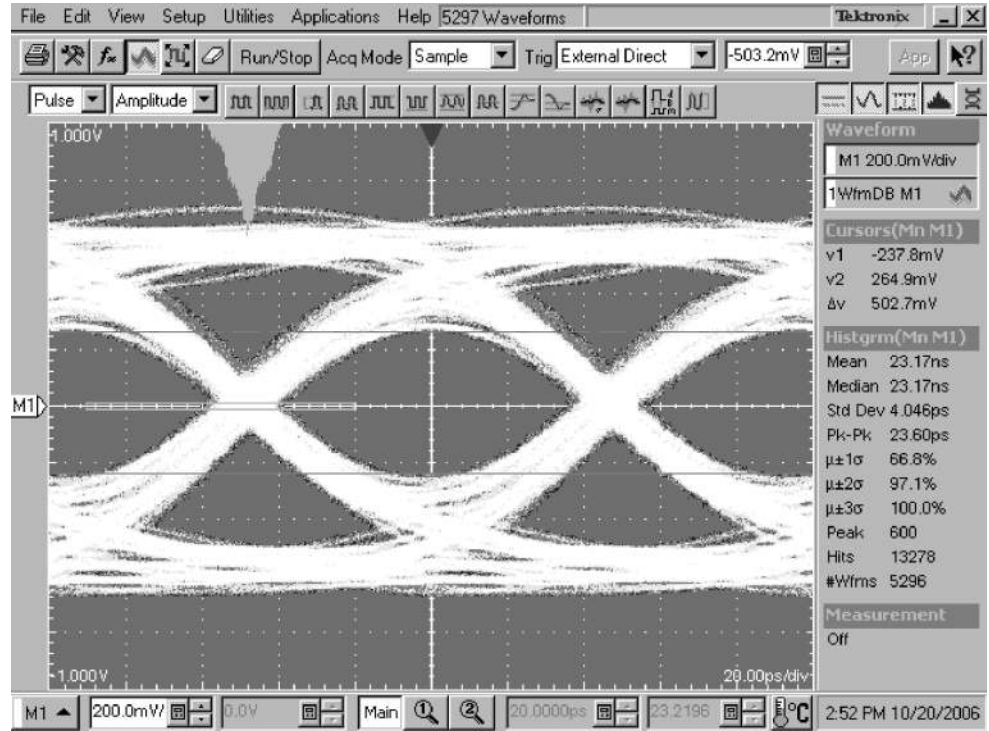
Description	Part Number	Length
Passive Unequalized	1902480-1	0.17 meter
	1902480-2	0.5 meter
	1902480-3	0.66 meter
	1902480-4	1 meter
Active	1902639-1	1 meter
	1902639-2	2 meter
	1902639-3	3 meter
	1902639-4	4 meter
	1902639-5	5 meter

**Note:** All part numbers are RoHS compliant.

**XFP Copper Cable Assemblies** (Continued)

**Passive XFP 0.5 Meter  
28 AWG Stressed Eye at  
10.5 Gbps**

- Data Rate: 10.51875 Gbps
- Data Pattern: PRBS 2<sup>7</sup>-1
- Eye Height: 427.0 mV
- Jitter: 13.6 ps



**Active XFP 5 Meter 24 AWG  
Stressed Eye at 10.5 Gbps**

- Data Rate: 10.51875 Gbps
- Data Pattern: PRBS 2<sup>7</sup>-1
- Eye Height: 427.0 mV
- Jitter: 13.6 ps

