

## 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

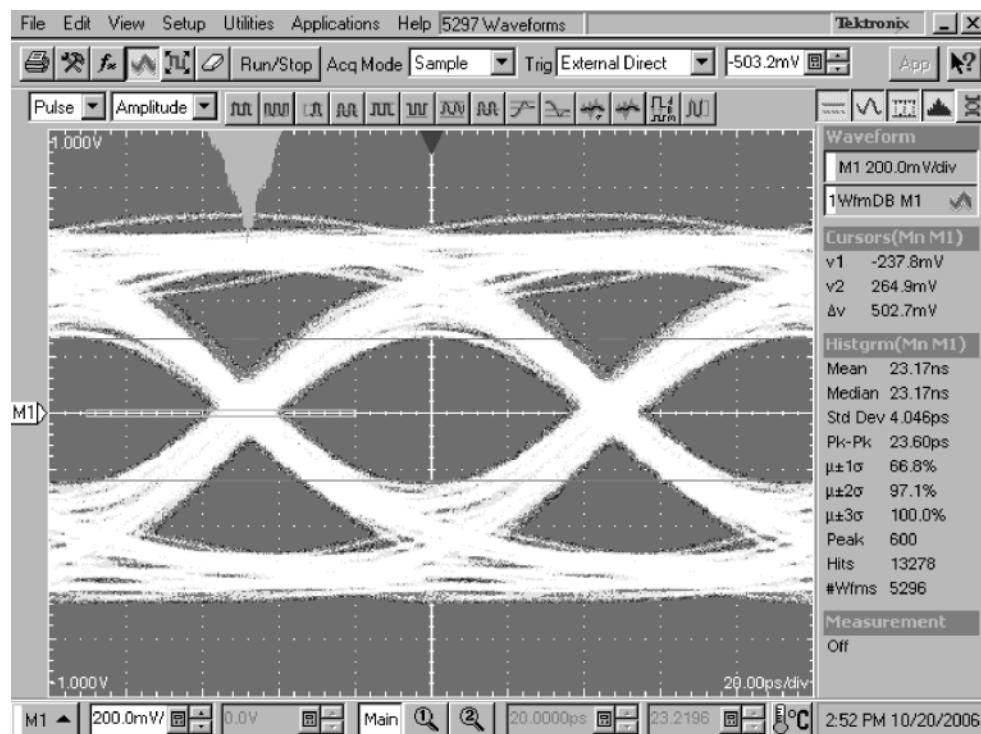
| Description         | Part Number | Length     |
|---------------------|-------------|------------|
| Passive Unequalized | 1902480-1   | 0.17 meter |
|                     | 1902480-2   | 0.5 meter  |
|                     | 1902480-3   | 0.66 meter |
|                     | 1902480-4   | 1 meter    |
| 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)

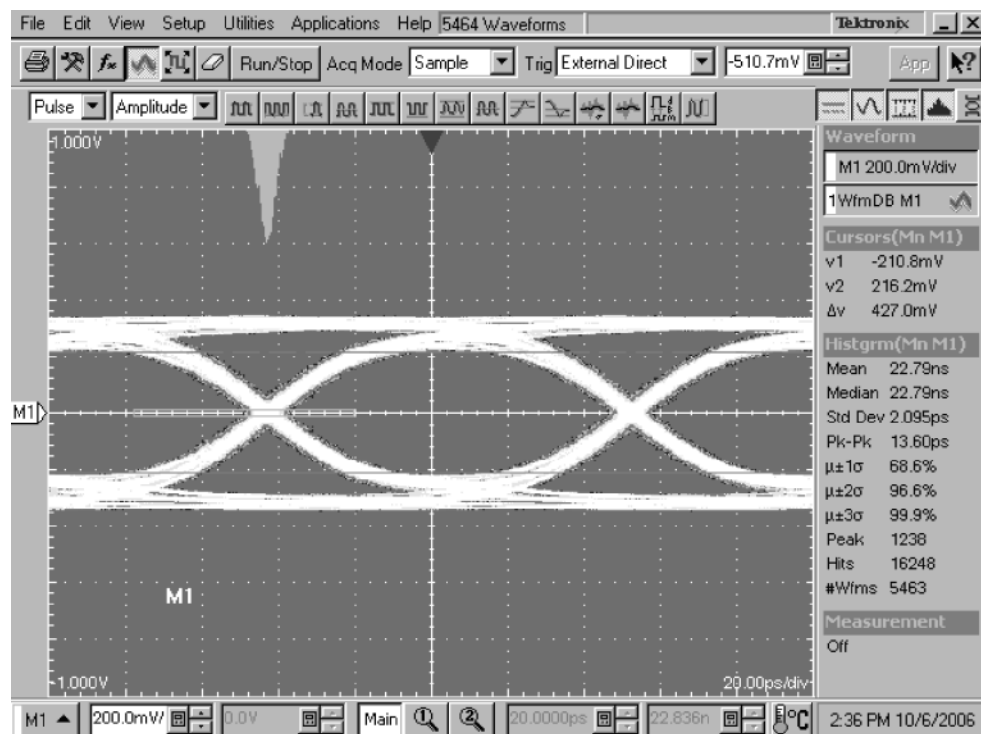
### Passive XFP 0.5 Meter 28 AWG Stressed Eye at 10.5 Gbps

- 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



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