

# *Finisar*<sup>®</sup>

## **Active Optical Cables**



**Active Optical Cables for High-Performance Connectivity**

# ACTIVE OPTICAL CABLES

Finisar’s family of active optical cables accelerate data connectivity for storage, networking, and HPC applications. Our complete product line includes Laserwire® and SFPwire® for applications up to 10 Gb/s, Quadwire® for 40GbE and InfiniBand 4xQDR/4xFDR, and C.wire® for 100GbE and InfiniBand 12xQDR/12xFDR. Each cable solution leverages Finisar’s fiber optic technology for the transmission of data while reducing the weight, density and power consumption of traditional copper solutions. Key advantages of active optical cables include: low weight for high port count architectures; small bend radius for easy installations; and low power consumption enabling a greener environment thereby providing the lowest total cost solution for data centers.



## 10 Gb/s Serial Active Optical Cable for 1/10GbE and 1/2/4/8x Fibre Channel

Laserwire® is a family of next generation cables for low cost, high speed serial connectivity. Laserwire is an active optical cable which allows for the transmission of data while reducing the weight, density, and power consumption of comparable interconnects. Laserwire is vertically integrated, utilizing Finisar’s internally designed ASIC and VCSEL technology.



Laserwire cables can be used to connect a range of different systems and equipment via Finisar’s adapter portfolio. Adapters are available for use in SFP+ and XFP enabling a true plug and play for data center environments.

### Product Selection

| Part No: FCBP110LD1Lxx (Laserwire optical cable only) |    |                                  |
|---|----|----------------------------------|
| Part No: FCBP110LD1LxxS (with two SFP+ adapters)      |    |                                  |
| xx  | 03 | 3 meter Laserwire optical cable  |
|   | 05 | 5 meter Laserwire optical cable  |
|   | 10 | 10 meter Laserwire optical cable |
|   | 20 | 20 meter Laserwire optical cable |
|   | 30 | 30 meter Laserwire optical cable |

|                        |  |
|------------------------|--|
| Part No: FCBJ110LE1    | Laserwire Jack                         |
| Part No: FTLX0011D4BNL | XFP adapter with Laserwire receptacle  |
| Part No: FTLX0071D4BNL | SFP+ adapter with Laserwire receptacle |



Laserwire Jack    XFP adapter    SFP+ adapter



## 10 Gb/s SFP+ Active Optical Cable for 10G Ethernet

SFPwire® is a family of next generation active optical cables specifically for use between SFP+ ports. Based on Finisar’s vertically integrated VCSEL array technology and designed with SFP+ connectors, SFPwire® is lighter and more flexible than comparable copper SFP+ direct attach cables (DACs).



The primary application is inter-rack and intra-rack connections within a data center environment.

### Product Selection

| Part No: FCBG110SD1Cxx |    |                                |
|------------------------|----|--------------------------------|
| xx                     | 01 | 1 meter SFPwire optical cable  |
|                        | 03 | 3 meter SFPwire optical cable  |
|                        | 05 | 5 meter SFPwire optical cable  |
|                        | 07 | 7 meter SFPwire optical cable  |
|                        | 10 | 10 meter SFPwire optical cable |
|                        | 20 | 20 meter SFPwire optical cable |

## quadwire®

4-Channel Parallel Active Optical Cable for InfiniBand 4xQDR/4xFDR, Ethernet 40 GbE, Fibre Channel, SAS 2/3, and PCIe 2/3

Quadwire® is a family of 4-channel parallel active optical cables that facilitates high-speed data connectivity for storage, networking, and HPC applications. It supports up to 4x 14Gb/s bi-directional connectivity using parallel multimode fiber (MMF) cables. Based on Finisar's vertically integrated VCSEL array technology and design with QSFP MSA-compliant high-density connectors, these cables are compact, lightweight, and low power. Quadwire is ideally suited for datacenter reaches up to 300 meters for InfiniBand QDR/FDR, 40G Ethernet, Fibre Channel, SAS, PCIe, and other datacom and high-performance computer applications.



### Product Selection

Part No: FCBG410QB1Cxx  
4x10Gb/s active optical cable, LSZH, flat ribbon, riser-rated

Part No: FCBN410QB1Cxx  
4x10Gb/s active optical cable, round, plenum-rated

Part No: FCBG414QB1Cxx  
4x14Gb/s active optical cable, LSZH, flat ribbon, riser-rated

Part No: FCBN414QB1Cxx  
4x14Gb/s active optical cable, round, plenum-rated

|    |    |                 |
|----|----|-----------------|
| xx | 03 | 3 meter cable   |
|    | 05 | 5 meter cable   |
|    | 10 | 10 meter cable  |
|    | 15 | 15 meter cable  |
|    | 20 | 20 meter cable  |
|    | 30 | 30 meter cable  |
|    | 50 | 50 meter cable  |
|    | X0 | 100 meter cable |

## C.wire®

12-Channel Parallel Active Optical Cables for 100GbE and InfiniBand 12xQDR/12xFDR

C.wire® is a family of 12-channel parallel active optical cables that enables high-speed data connectivity for storage, networking, and HPC applications. It supports up to 12x14 Gb/s bi-directionally over parallel multimode fiber (MMF) cable. Based on Finisar's vertically integrated VCSEL array technology and designed with CXP-compliant high-density connectors, these cables are compact, lightweight, and low power. C.wire is well suited for datacenter reaches up to 300 meters for InfiniBand 12xQDR/12xFDR, 100G Ethernet, and other datacom and high-performance computing applications.



### Product Selection

Part No: FCBGD10CD1Cxx  
12x10 Gb/s active optical cable, flat ribbon, riser-rated

Part No: FCBND12CD1Cxx  
12x12.5 Gb/s active optical cable, round, plenum-rated

Part No: FCBND14CD1Cxx  
12x14 Gb/s active optical cable, round, plenum-rated

|    |    |                 |
|----|----|-----------------|
| xx | 03 | 3 meter cable   |
|    | 05 | 5 meter cable   |
|    | 10 | 10 meter cable  |
|    | 20 | 20 meter cable  |
|    | 30 | 30 meter cable  |
|    | 50 | 50 meter cable  |
|    | X0 | 100 meter cable |

 Laserwire®

SFPwire®

 quadwire®

 C.wire®

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