# Product Guide

## Active Optical Cables

**30 YEARS 1988-2018**

**FINISAR®**

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# Active Optical Cables

Finisar's family of active optical cables accelerate data connectivity for storage, networking and high-performance computing (HPC) applications. This product line includes C.wire® for 100GbE, and InfiniBand QDR/FDR, and PCIe-Gen2/3/4; Quadwire® for 40/100GbE, InfiniBand QDR/FDR/EDR/HDR, Omni-Path, and PCIe-Gen2/3/4; and SFPwire® for applications up to 25 Gb/s.

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 providing the lowest total cost solution for data centers.

## ⠿C.wire®

### 12-Channel Parallel Active Optical Cables for 100GbE and InfiniBand QDR/FDR, and PCIe-Gen2/3/4

C.wire® is a family of 12-channel parallel active optical cables that enables high-speed data connectivity for storage, networking, and high-performance computing (HPC) applications. It supports up to 12x16 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 data center reaches up to 100 meters for InfiniBand QDR/FDR, 100G Ethernet, PCIe, and other proprietary datacom and HPC applications. C.wire is available in a point-to-point configuration using MSA compliant CXP modules on each end.

## SFPwire®

### SFP+ Active Optical Cables for 10G and 25G Ethernet

Finisar's SFPwire® is a family of Active Optical Cables (AOCs) for high-speed data links between SFP+ ports. SFPwire AOC's are ideally suited for inter-rack and intra-rack connections within a data center environment. Based on Finisar's vertically integrated VCSEL array technology and designed with SFP+ SFI-limiting module ends, SFPwire AOC's are lighter and more flexible than comparable copper SFP+ direct attach cables (DACs).

## C.wire Product Selection

| Part No | Description |
|---|---|
| **Part No: FCBRD10CD1Cxx:** 12x10 Gb/s CXP-CXP active optical cable, round, riser-rated | |
| **Part No: FCBND10CD1Cxx:** 12x10 Gb/s CXP-CXP active optical cable, round, plenum-rated | |
| **Part No: FCBRD10CD3Cxx:** 12x10 Gb/s CXP-CXP active optical cable, round, riser-rated, optical power monitoring | |
| **Part No: FCBND10CD3Cxx:** 12x10 Gb/s CXP-CXP active optical cable, round, plenum-rated, optical power monitoring | |
| **Part No: FCBRD12CD3Cxx:** 12x12.5 Gb/s CXP-CXP active optical cable, round, riser-rated, optical power monitoring | |
| **Part No: FCBND12CD3Cxx**: 12x12.5 Gb/s CXP-CXP active optical cable, round, plenum-rated, optical power monitoring | |
| **Part No: FCBRD16CD3Cxx**: 12x16 Gb/s CXP-CXP active optical cable, round, riser-rated, optical power monitoring | |
| **Part No: FCBND16CD3Cxx**: 12x16 Gb/s CXP-CXP active optical cable, round, plenum-rated, optical power monitoring | |

| xx | | | | |
|---|---|---|---|---|
| | 01 | 1 meter cable | 12 | 12 meter cable |
| | 02 | 2 meter cable | 15 | 15 meter cable |
| | 03 | 3 meter cable | 17 | 17 meter cable |
| | 05 | 5 meter cable | 20 | 20 meter cable |
| | 06 | 6 meter cable | 30 | 30 meter cable |
| | 08 | 8 meter cable | 50 | 50 meter cable |
| | 10 | 10 meter cable | 60 | 60 meter cable |

## SFPwire Product Selection

| Part No: FCBG110SD1Cxx (for 10Gb/s) and FCBG125SD1Cxx (for 25Gb/s) | | | | |
|---|---|---|---|---|
| xx | Z5 | 0.5 meter cable | 05 | 5 meter cable |
| | 01 | 1 meter cable | 07 | 7 meter cable |
| | A5 | 1.5 meter cable | 10 | 10 meter cable |
| | 02 | 2 meter cable | 15 | 15 meter cable |
| | B5 | 2.5 meter cable | 20 | 20 meter cable |
| | 03 | 3 meter cable | 30 | 30 meter cable |
| | C5 | 3.5 meter cable | | |

# ⁚⁚quadwire®

## 4-Channel Parallel Active Optical Cable for InfiniBand QDR/FDR/EDR, Ethernet 40 and 100 GbE, Fibre Channel, SAS 2/3, and PCIe 2/3/4

Quadwire® is a family of 4-channel parallel active optical cables that facilitates high-speed data connectivity for storage, networking, and high-performance computing (HPC) applications. It supports up to 4x28Gb/s bi-directional connectivity using parallel multimode fiber (MMF) cables. Based on Finisar's vertically integrated VCSEL array technology, these cables are compact, lightweight, and low power. Quadwire is ideally suited for data center reaches up to 100 meters for InfiniBand QDR/FDR/EDR, 40/100G Ethernet, SAS, PCIe, and other datacom and HPC applications. Quadwire is available in a point-to-point configuration using QSFP modules on each end, as well as a fanout configuration with a QSFP module on one end and four separate SFP modules at the other ends.

## Quadwire Product Selection

| **Part No: FCBG410QB1Cxx** 4x10Gb/s QSFP-QSFP active optical cable, LSZH, flat ribbon, riser-rated | | | |
|---|---|---|---|
| **Part No: FCBN410QB1Cxx** 4x10Gb/s QSFP-QSFP active optical cable, round, plenum-rated | | | |
| **Part No: FCBR410QB1Cxx** 4x10Gb/s QSFP-QSFP active optical cable, LSZH, round, riser-rated | | | |
| **Part No: FCBN510QE2Cxx** 4x10Gb/s QSFP-4xSFP+ fanout active optical cable, round, plenum-rated | | | |
| **Part No: FCBG414QB1Cxx** 4x14Gb/s QSFP-QSFP active optical cable, LSZH, flat ribbon, riser-rated | | | |
| **Part No: FCBR414QB1Cxx** 4x14Gb/s QSFP-QSFP active optical cable, LSZH, round, riser-rated | | | |
| **Part No: FCBN414QB1Cxx** 4x14Gb/s QSFP-QSFP active optical cable, round, plenum-rated | | | |
| **Part No: FCBN425QB1Cxx (InfiniBand)** **Part No: FCBN425QP1Cxx (Omni-Path)** **Part No: FCBN425QE1Cxx (Ethernet)** 4x25Gb/s QSFP-QSFP active optical cable, round, plenum-rated | | | |
| **Part No: FCBR425QB1Cxx (InfiniBand)** **Part No: FCBR425QP1Cxx (Omni-Path)** **Part No: FCBR425QE1Cxx (Ethernet)** 4x25Gb/s QSFP-QSFP active optical cable, LSZH, round, riser-rated | | | |
| xx | 01 | 1 meter cable | 15 | 15 meter cable |
| | 03 | 3 meter cable | 20 | 20 meter cable |
| | 05 | 5 meter cable | 30 | 30 meter cable |
| | 07 | 7 meter cable | 50 | 50 meter cable |
| | 10 | 10 meter cable | X0 | 100 meter cable |

| **Part No: FCBN510QE2Cxx** 4x10Gb/s QSFP-4xSFP+ fanout active optical cable, round, plenum-rated | | | | |
|---|---|---|---|---|
| xx | 01 | 1 meter cable | 15 | 15 meter cable |
| | 03 | 3 meter cable | 20 | 20 meter cable |
| | 05 | 5 meter cable | 30 | 30 meter cable |
| | 10 | 10 meter cable | | |

| **Part No: FCBN525QE1Cxx** 4x25Gb/s QSFP-4xSFP+ fanout active optical cable, round, plenum-rated | | | | |
|---|---|---|---|---|
| **Part No: FCBR525QE1Cxx** 4x25Gb/s QSFP-4xSFP+ fanout active optical cable, round, riser-rated | | | | |
| xx | 01 | 1 meter cable | 10 | 10 meter cable |
| | 02 | 2 meter cable | 15 | 15 meter cable |
| | 03 | 3 meter cable | 20 | 20 meter cable |
| | 05 | 5 meter cable | 30 | 30 meter cable |
| | 07 | 7 meter cable | | |

Technology Innovator.
Broad Product Portfolio.
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