

# Product Guide

## Active Optical Cables

**FINISAR®**



# 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). SFPwire AOCs have the option to support Finisar-proprietary Connectivity Diagnostics® (CD).



### C.wire Product Selection

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

<b>Part No: FCBG110SD1Cxx (for 10Gb/s) and FCBG125SD1Cxx (for 25Gb/s)</b>				
<b>FCBG110SD1Cxx-1V (for 10Gb/s with CD) and FCCG125SD1Cxx (for 25Gb/s with CD)</b>				
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		



## 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® AOCs have the option to support Finisar-proprietary Connectivity Diagnostics® (CD).



## Quadwire Product Selection

<b>Part No: FCBG410QD3Cxx, FCCG410QD3Cxx (with CD)</b> 4x10Gb/s QSFP-QSFP active optical cable, LSZH, flat ribbon, riser-rated				
<b>Part No: FCBN410QD3Cxx, FCCN410QD3Cxx (with CD)</b> 4x10Gb/s QSFP-QSFP active optical cable, round, plenum-rated				
<b>Part No: FCBR410QD3Cxx, FCCR410QD3Cxx (with CD)</b> 4x10Gb/s QSFP-QSFP active optical cable, LSZH, round, riser-rated				
<b>Part No: FCBN510QE2Cxx</b> 4x10Gb/s QSFP-4xSFP+ fanout active optical cable, round, plenum-rated				
<b>Part No: FCBG414QD3Cxx</b> 4x14Gb/s QSFP-QSFP active optical cable, LSZH, flat ribbon, riser-rated				
<b>Part No: FCBR414QD3Cxx</b> 4x14Gb/s QSFP-QSFP active optical cable, LSZH, round, riser-rated				
<b>Part No: FCBN414QD3Cxx</b> 4x14Gb/s QSFP-QSFP active optical cable, round, plenum-rated				
<b>Part No: FCBN425QB2Cxx (InfiniBand, Omni-Path)</b> <b>Part No: FCBN425QM2Cxx (Multirate, OTU4)</b> <b>Part No: FCBN425QE2Cxx (Ethernet)</b> 4x25Gb/s QSFP-QSFP active optical cable, round, plenum-rated				
<b>Part No: FCBR425QB2Cxx (InfiniBand, Omni-Path)</b> <b>Part No: FCBR425QM2Cxx (Multirate, OTU4)</b> <b>Part No: FCBR425QE2Cxx (Ethernet)</b> 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

<b>Part No: FCBN510QE2Cxx</b> 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		

<b>Part No: FCBN525QE1Cxx</b> 4x25Gb/s QSFP-4xSFP+ fanout active optical cable, round, plenum-rated				
<b>Part No: FCBR525QE1Cxx</b> 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		

# Finisar is Now Part of II-VI

Technology Innovator.  
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1389 Moffett Park Drive  
Sunnyvale, CA 94089-1133  
[www.finisar.com/cables](http://www.finisar.com/cables)

Telephone: +1 408-548-1000  
Email: [cables@finisar.com](mailto:cables@finisar.com)



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