

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 AOCs 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 AOCs are lighter and more flexible than comparable copper SFP+ direct attach cables (DACs).



C.wire Product Selection

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		

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