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 12xQDR/12xFDR/12xEDR; Quadwire® for 40/100GbE and InfiniBand QDR/FDR/EDR; 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 enabling a greener environment thereby providing the lowest total cost solution for data centers.

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 high-performance computing (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 data center reaches up to 300 meters for InfiniBand 12xQDR/12xFDR, 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, as well as a fanout configuration with a CXP module on one end and three separate QSFP+ modules at the other end.

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: FCBR3Q02CxxC1 12x10Gb/s CXP-3xQSFP+ fanout active optical cable, round/flat, riser-rated		
Part No: FCBN3Q02CxxC1 12x10Gb/s CXP-3xQSFP+ fanout active optical cable, round, plenum-rated		
Part No: FCBRD12CD1Cxx 12x12.5 Gb/s CXP-CXP active optical cable, round, riser-rated		
Part No: FCBND12CD1Cxx 12x12.5 Gb/s CXP-CXP active optical cable, round, plenum-rated		
Part No: FCBRD14CD1Cxx 12x14 Gb/s CXP-CXP active optical cable, round, riser-rated		
Part No: FCBND14CD1Cxx 12x14 Gb/s CXP-CXP 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

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

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 4x25Gb/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 MSA compliant 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.

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).

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: FCBN425QE1Cxx (Ethernet)
4x25Gb/s QSFP-QSFP active optical cable, round, plenum-rated

Part No: FCBR425QB1Cxx (InfiniBand)
Part No: FCBR425QE1Cxx (Ethernet)
4x25Gb/s QSFP-QSFP active optical cable, LSZH, round, riser-rated

xx	01	1 meter cable
	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

Part No: FCBN510QE2Cxx
4x10Gb/s QSFP-4xSFP+ fanout active optical cable, round, plenum-rated

xx	01	1 meter cable
	03	3 meter cable
	05	5 meter cable
	10	10 meter cable
	15	15 meter cable
	20	20 meter cable
	30	30 meter cable

SFPwire Product Selection

Part No: FCBG110SD1Cxx and FCBG125SD1Cxx

xx	Z5	0.5 meter cable
	01	1 meter cable
	A5	1.5 meter cable
	02	2 meter cable
	B5	2.5 meter cable
	03	3 meter cable
	C5	3.5 meter cable
	05	5 meter cable
	07	7 meter cable
	10	10 meter cable
	15	15 meter cable
	20	20 meter cable
	30	30 meter cable

Technology Innovator.
Broad Product Portfolio.
Trusted Partner.

FINISAR®

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