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Finisar® Active Optical Cables

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Our family of Finisar® 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 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.



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 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.



C.wire Product Selection

Part Numbers		Description		
FCBRD10CD1Cxx		12x10 Gb/s CXP-CXP active optical cable, round, riser-rated		
FCBND10CD1Cxx		12x10 Gb/s CXP-CXP active optical cable, round, plenum-rated		
FCBRD10CD3Cxx		12x10 Gb/s CXP-CXP active optical cable, round, riser-rated, optical power monitoring		
FCBND10CD3Cxx		12x10 Gb/s CXP-CXP active optical cable, round, plenum-rated, optical power monitoring		
FCBRD12CD3Cxx		12x12.5 Gb/s CXP-CXP active optical cable, round, riser-rated, optical power monitoring		
FCBND12CD3Cxx		12x12.5 Gb/s CXP-CXP active optical cable, round, plenum-rated, optical power monitoring		
FCBRD16CD3Cxx		12x16 Gb/s CXP-CXP active optical cable, round, riser-rated, optical power monitoring		
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



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 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® 40 and 56G AOCs have the option to support proprietary Connectivity Diagnostics® (CD).



Quadwire Product Selection

Part Numbers	Description
FCBG410QD3Cxx, FCCG410QD3Cxx (with CD)	4x10Gb/s QSFP-QSFP active optical cable, LSZH, flat ribbon, riser-rated
FCBN410QD3Cxx, FCCN410QD3Cxx (with CD)	4x10Gb/s QSFP-QSFP active optical cable, round, plenum-rated
FCBR410QD3Cxx , FCCR410QD3Cxx (with CD)	4x10Gb/s QSFP-QSFP active optical cable, LSZH, round, riser-rated
FCBN510QE2Cxx	4x10Gb/s QSFP-4xSFP+ fanout active optical cable, round, plenum-rated
FCBG414QD3Cxx	4x14Gb/s QSFP-QSFP active optical cable, LSZH, flat ribbon, riser-rated
FCBR414QD3Cxx	4x14Gb/s QSFP-QSFP active optical cable, LSZH, round, riser-rated
FCBN414QD3Cxx	4x14Gb/s QSFP-QSFP active optical cable, round, plenum-rated
FCBN425QB2Cxx (InfiniBand, Omni-Path)	4x25Gb/s QSFP-QSFP active optical cable, round, plenum-rated
FCBN425QM2Cxx (Multirate, OTU4)	
FCBN425QE2Cxx (Ethernet)	
FCBR425QB2Cxx (InfiniBand, Omni-Path)	4x25Gb/s QSFP-QSFP active optical cable, LSZH, round, riser-rated
FCBR425QM2Cxx (Multirate, OTU4)	
FCBR425QE2Cxx (Ethernet)	

xx	01	1 meter cable	07	7 meter cable	20	20 meter cable	X0	100 meter cable
	03	3 meter cable	10	10 meter cable	30	30 meter cable		
	05	5 meter cable	15	15 meter cable	50	50 meter cable		

Part Number		Description						
FCBN510QE2Cxx		4x10Gb/s QSFP-4xSFP+ fanout active optical cable, round, plenum-rated						
xx	01	1 meter cable	10	10 meter cable	30	30 meter cable		
	03	3 meter cable	15	15 meter cable				
	05	5 meter cable	20	20 meter cable				

Part Numbers		Description						
FCBN525QE1Cxx		4x25Gb/s QSFP-4xSFP+ fanout active optical cable, round, plenum-rated						
FCBR525QE1Cxx		4x25Gb/s QSFP-4xSFP+ fanout active optical cable, round, riser-rated						
xx	01	1 meter cable	05	5 meter cable	15	15 meter cable		
	02	2 meter cable	07	7 meter cable	20	20 meter cable		
	03	3 meter cable	10	10 meter cable	30	30 meter cable		



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

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 our 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 proprietary Connectivity Diagnostics® (CD).



SFPwire Product Selection

Part Numbers	Description
FCBG110SD1Cxx	For 10Gb/s
FCBG125SD1Cxx	For 25Gb/s
FCBG110SD1Cxx-1V	For 10Gb/s with CD
FCCG125SD1Cxx	For 25Gb/s with CD

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		

