Finisar®

quadwire®

PRODUCT BRIEF

KEY FEATURES

▶ Parallel 4x10Gb/s and 4x14Gb/s bi-directional links

▶ Lightweight

▶ Low power dissipation: <1.5 W per end

▶ Small cable bend radius

▶ Thin cable for large port count architectures and easy installations

▶ Datacenter lengths available up to 300 meters

▶ Standard QSFP form factor

▶ Metal enclosure for low EMI

▶ Single 3.3V power supply

▶ Operating case temperature range: 0°C to 70°C

▶ RoHS compliant and Lead-Free

APPLICATIONS

▶ InfiniBand 4xQDR/FDR

▶ 40G Ethernet (40GbE)

▶ Fibre Channel

▶ SAS/SATA

▶ PCIe

▶ Proprietary high-speed interconnections

40G & 56G PARALLEL ACTIVE OPTICAL CABLES
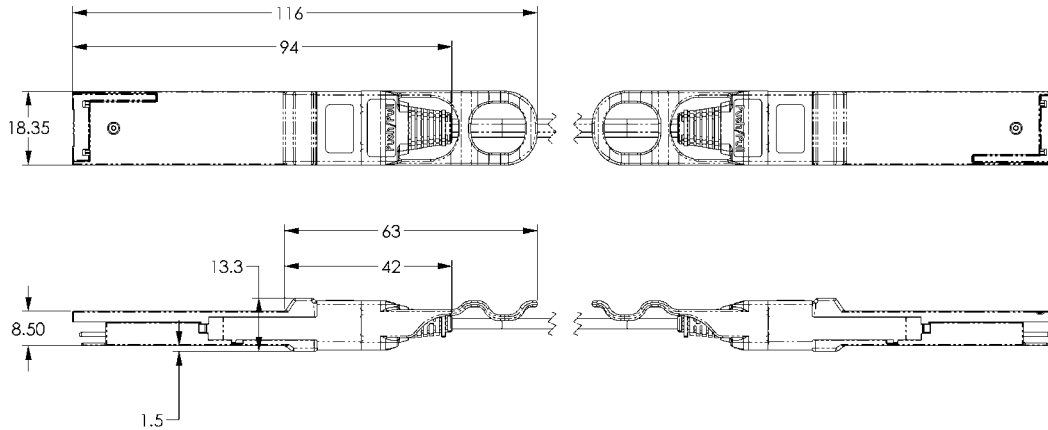
OVERVIEW

Quadwire® is a family of 4-channel parallel active optical cables for storage, data, and high-performance computing connectivity. It supports up to 4x14Gb/s over parallel multimode fiber (MMF) cable. Based on Finisar's vertically integrated VCSEL array technology and designed with QSFP MSA-compliant high-density connectors, these cables are compact, lightweight, and low power. Quadwire is ideally suited for datacenter reaches up to 300m for InfiniBand 4xQDR/4xFDR, 40G Ethernet, and other datacom and high-performance computing applications.

KEY ADVANTAGES

▶ Lowest weight for high-port-count architectures

▶ High-density 40Gb/s and 56Gb/s interconnectivity

▶ Small bend radius for easy installation and fiber management

▶ Low power consumption

▶ Based on industry-standard QSFP form factor

▶ Utilizes Finisar's vertically integrated and highly reliable VCSEL technology

::quadwire®

GENERAL PRODUCT CHARACTERISTICS

Parameter	Value	Unit	Notes
Module Form Factor	QSFP		
Number of Lanes	4 Tx and 4 Rx		
Maximum Aggregate Data Rate	40	Gb/s	
Maximum Data Rate per Lane	10 or 14	Gb/s	
Standard Cable Lengths	3, 5, 10, 15, 20, 30, 50, 100	meters	Different lengths may be available upon request
Protocols Supported	InfiniBand, Fibre Channel, 40G Ethernet, SAS/SATA, PCIe		
Electrical Interface and Pin-out	38-pin edge connector		Pin-out as defined by the QSFP MSA
Standard Optical Cable Type	Multimode ribbon fiber cable assembly		Various cable types available upon request
Maximum Power Consumption per End	1.5	Watts	Varies with output voltage swing and pre-emphasis settings
Management Interface	Serial, I2C-based		As defined by the QSFP MSA

PRODUCT SELECTION

Part Number: FCBG410QB1Cxx	4x10Gb/s active optical cable, LSZH, flat ribbon, riser-rated
Part Number: FCBN410QB1Cxx	4x10Gb/s active optical cable, round, plenum-rated
Part Number: FCBG414QB1Cxx	4x14Gb/s active optical cable, LSZH, flat ribbon, riser-rated
Part Number: FCBN414QB1Cxx	4x14Gb/s active optical cable, round, plenum-rated

xx	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
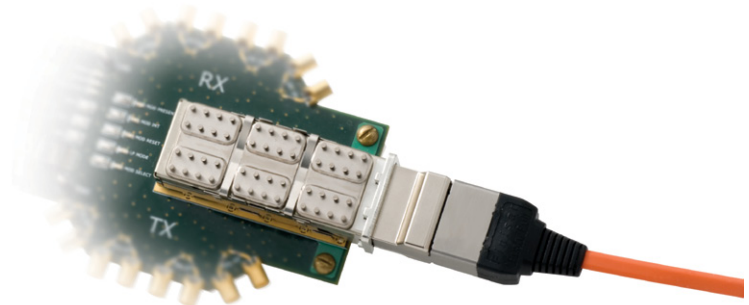
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