

QSFP+ , 56 GB/S, ACTIVE OPTICAL CABLE

OVERVIEW

The FCI QSFP+ FDR, 56 Gb/s, Active Optical Cable series provides an optical transmission based cost effective, high performance, plug & play interconnect solution. The AOC features optical transceivers inside both cable connectors enabling improved performance and distance capability versus traditional copper assemblies.

The transceivers at both ends assure proper interoperability and provide excellent link performance. The assembly is a full duplex, 4 channel construction with each channel capable of transmitting data at rates up to 14 Gb/s. Typical applications serve signal transmission distances between 3m and 100m.



FEATURES & BENEFITS

- Full Duplex 4 Channel 850nm Parallel Active Optical Cable
- Supports transmission rates up to 14 Gbit/s per channel
- QSFP-based modules at each cable end
- QSFP interfaces fully compliant to SFF- 8436
- Hot pluggable electrical interfaces
- QSFP-based module supports Rx Pre-Emphasis
- EEPROM-based Serial-ID, accessible through two-wire Serial Interface
- Multi-channel 850nm VCSEL array
- Multi-channel PIN-detector array
- Helix type 8-fiber Multi-Mode Optical cable that allows for bending in any direction
- Fire-resistant OFNP (optical Fiber Non-Conductive Plenum) rated cable
- Low power QSFP module: 0.8 Watts (typ.) per end
- Power class 4
- 0°C to +70°C operating case temperature
- Laser Class 1 IEC/CDRH compliant

TARGET MARKETS / APPLICATIONS

- Data Center
- High Performance Computing
- Switching
- Industrial



TECHNICAL INFORMATION

MATERIALS

- Fiber cable:
 - Helix based 8 fiber Multi-mode cable
 - OFNP (Optical Fiber Non-conductive Plenum)

ELECTRICAL PERFORMANCE

- Power supply voltage: 3.3V
- Data rate per lane: 14 Gb/s
- Power consumption: 0.8W (typ.) per end
- Transmitter type: VCSEL
- Receiver type: PIN-diode

ENVIRONMENTAL

- RoHS 6/6 compliant
- Laser Class 1 / CDRH
- Operating temperature range: 0°C to 70°C
- Halogen free (optional)

SPECIFICATIONS

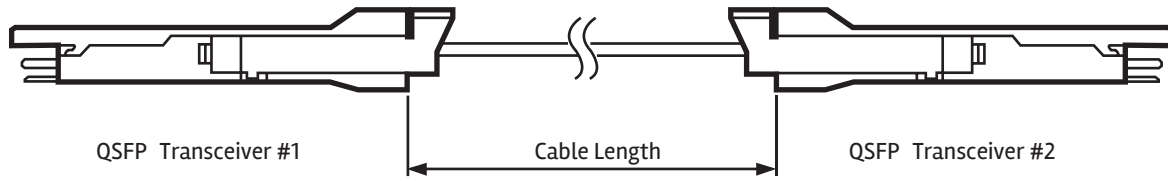
- Module meets MSA –Small Form Factors SFF- 8436 (QSFP)
- Cable assembly supports Infiniband SDR, DDR, QDR and FDR data rates
- Product Specification: GS-12-1059

CERTIFICATIONS & APPROVAL

- UL : E251142-A2
- TUV : DE2-015589
- FDA : 0820640-xxx

PACKAGING

- Blister reel up to 30 meter length
- Box beyond 30 meter length



PART NUMBERS

Description	Part Number
Straight exit boot	ICD056GVP163D-XX

Suffix XX	Cable Length (m)	Category	Colour
01	1	OM2	Orange
05	5	OM2	Orange
10	10	OM2	Orange
15	15	OM2	Orange
20	20	OM2	Orange
30	30	OM3	Aqua
50	50	OM3	Aqua
C0	100	OM3	Aqua

OPI5FP+56G0813EA4

QSFP+ , 40 GB/S, ACTIVE OPTICAL CABLE

OVERVIEW

The FCI QSFP+ QDR, 40 Gb/s, Active Optical Cable series provides an optical transmission based cost effective, high performance, plug & play interconnect solution. The AOC features optical transceivers inside both cable connectors enabling improved performance and distance capability versus traditional copper assemblies.

The transceivers assure proper interoperability and provide excellent link performance. The assembly is a full duplex, 4 channel construction with each channel capable of transmitting data at rates up to 10 Gb/s. Typical applications serve signal transmission distances between 3m and 100m.



FEATURES & BENEFITS

- Full Duplex 4 Channel 850nm Parallel Active Optical Cable
- Supports transmission rates up to 10.3 Gbit/s per channel
- QSFP-based modules at each cable end
- QSFP interfaces fully compliant to SFF- 8436
- Hot pluggable electrical interfaces
- QSFP-based module supports Rx Pre-Emphasis
- EEPROM-based Serial-ID, accessible through two-wire Serial Interface
- Multi-channel 850nm VCSEL array
- Multi-channel PIN-detector array
- Helix type 8-fiber Multi-Mode Optical cable that allows for bending in any direction
- Fire-resistant OFNP (optical Fiber Non-Conductive Plenum) rated cable
- Low power QSFP module: 0.8 Watts (typ.) per end
- Power class 4
- 0°C to +70°C operating case temperature
- Laser Class 1 IEC/CDRH compliant

TARGET MARKETS / APPLICATIONS

- Data Center
- High Performance Computing
- Switching
- Industrial



TECHNICAL INFORMATION

MATERIALS

- Fiber cable:
 - Helix based 8 fiber Multi-mode cable
 - OFNP (Optical Fiber Non-conductive Plenum)

ELECTRICAL PERFORMANCE

- Power supply voltage: 3.3V
- Data rate per lane: 10 Gb/s
- Power consumption: 0.8 watts (typ.) per end
- Transmitter type: VCSEL
- Receiver type: PIN-diode

ENVIRONMENTAL

- RoHS 6/6 compliant
- Laser Class 1 / CDRH
- Operating temperature range: 0°C to 70°C
- Halogene free (optional)

SPECIFICATIONS

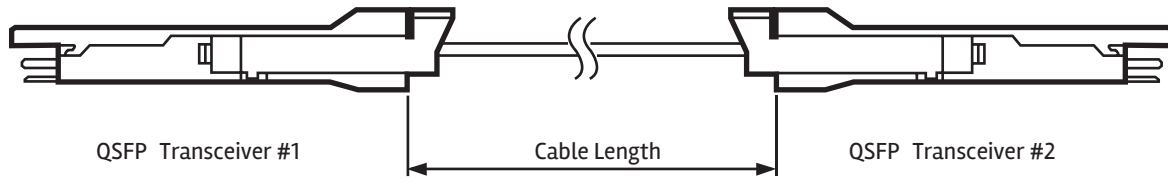
- Module meets MSA –Small Form Factors SFF- 8436 (QSFP)
- Cable assembly supports Infiniband SDR, DDR and QDR data rates
- Product Specification: GS-12-1065

CERTIFICATIONS & APPROVAL

- UL : E251142-A2
- TUV : DE2-015589
- FDA : 0820640-xxx

PACKAGING

- Blister reel up to 30 meter length
- Box beyond 30 meter length



PART NUMBERS

Description	Part Number
Straight exit boot	ICD040GVP163D-XX

Suffix XX	Cable Length (m)	Category	Colour
01	1	OM2	Orange
05	5	OM2	Orange
10	10	OM2	Orange
15	15	OM2	Orange
20	20	OM2	Orange
30	30	OM3	Aqua
50	50	OM3	Aqua
C0	100	OM3	Aqua

OPI5FP+40G0813EA4

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