

QSFP28 Active Optical Cable Assemblies

COST EFFICIENT, HIGH PERFORMANCE, PLUG AND PLAY INTERCONNECT SOLUTIONS

Amphenol ICC's 100G QSFP28 to QSFP28 Active Optical Cable assemblies are a reliable, cost and power efficient, integrated solution which is ideal for high density signal transmission typically seen in most storage, data centers and high performance computing applications with fiber cable length up to 100meters.

- Capable of speeds up to 25.78125 Gb/s or 28.05 Gb/s per channel
- Transmission distance up to 100m (MMF)
- Compliant with QSFP28 MSA
- Support 100G Ethernet and Infiniband EDR and 128GFC Fibre Channel protocol
- Compact, lightweight and low power consumption



FEATURES

- Optical connectivity enables length up to 100m
- Transmission rates up to 28.05Gb/s per channel
- 8 cores multimode loose fiber with a 3.0mm round jacket
- Accessible through two-wire Serial Interface
- Hot pluggable cable connector interfaces
- Programmable input equalization, output amplitude, emphasis
- Low power consumption
- 0°C to +70°C operating case temperature

BENEFITS

- Data is securely transferred with no potential risk
- Support data rate from 1.25Gb/s to 28.05Gb/s
- Allow for easy cable routing in any direction
- Allows for connection discovery and cable management
- Adaptive setting to compensate
- Provide maximum flexibility for optimization
- 1.65W(typ.) per cable end(CDR ON)
- Supports commercial temperature range

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TECHNICAL INFORMATION

MATERIAL

- OM3 and OM4 fiber cable is selectable with plenum rated or LSZH rated
- Halogen free PCB material

ELECTRICAL PERFORMANCE

- Power Supply Voltage: 3.3V
- Transmitter Type: 850nm VCSEL Laser
- Receiver Type: PIN Photodiode
- Bit Error Rate: < 10⁻¹²

MECHANICAL PERFORMANCE

- QSFP+ Module Insertion: 40N Max
- QSFP+ Module Retention: 90N Min
- Cage Retention In Host Board: 114N Min
- Durability: 250 cycles

ENVIRONMENTAL

- RoHS 6/6 Compliant
- Storage Temperature Range: -40°C to 85°C
- Operating Case Temperature Range: 0°C to 70°C
- Storage Humidity Range: 0 to 85% RH
- Operating Humidity Range: 0 to 85% RH

APPROVALS AND CERTIFICATIONS

- Laser Class I product
- TUV: 50078037 001
- UL: NWGQ2.E96483
- cUL: NWGQ8.E96483

SPECIFICATION

- SFF-8636
- SFF-8665 / SFF-8661

PACKAGING

- ESD Bag

TARGET MARKETS/APPLICATIONS



Switches



Data Center
High Performance Computing (HPC)
Storage



Industrial & Instrumentation

PART NUMBER SELECTOR

