



GORE™ QSFP

COPPER CABLE ASSEMBLIES

Summary

GORE™ QSFP Copper Cable Assemblies provide superior signal fidelity over long distances using the smallest, most flexible cable. These high performance assemblies are engineered to be compliant with all the latest IBTA/IEEE specifications, and to perform beyond the standard InfiniBand QDR data rate (up to 10 Gbps/channel). For the emerging 40 Gbps Ethernet market, 40GBASE-CR4 assemblies are also available - Inquire directly with Gore.

GORE™ CABLE

GORE™ QSFP Copper Cable Assemblies incorporate the latest cable technologies, unique materials, and semi-automatic manufacturing to produce high quality assemblies for interconnects ideally suited for InfiniBand applications. The use of advanced low-loss dielectric materials and GORE™ EYE-OPENER+® Conductor Technology results in exceptional signal fidelity and improved bend radius over longer distances in small cross-sectional areas.

Part Number	Gauge	Max Length* @ 10 Gbps	Cable Diameter Nominal
QSNX000-L	24 AWG	9 meters	9.02 mm
QSNX600-L	26 AWG	7 meters	7.11 mm
QSNX800-L	28 AWG	5 meters	6.48 mm
QSNX300-L	30 AWG	4 meters	5.46 mm
QSN3200-L	32 AWG	3 meters	4.32 mm

*Based on 17 dB loss at 5 GHz using appropriate cable series and conductor
Inquire for proper selection of "11 dB class performance" cables

GORE OFFERINGS

QSN3000 Series	Silver-plated conductor - For shortest length (lowest loss) smaller gauge cables (typical lengths ≤ 3 meters)
QSN5000 Series	HLN8XXX designated cable using GORE™ EYE-OPENER+® Conductor - Higher signal fidelity and significantly reduced jitter
QSN7000 Series	Highest bandwidth cable (QSFP10XX) using GORE™ EYE-OPENER+® Conductor - Used for longest lengths or most demanding applications
QSN8000 Series	40 Gbps Ethernet specification optimized (not InfiniBand optimized) - Highest bandwidth cable using industry standard SPC conductor

Example Part Number: QSN7600-5 - 26 AWG GORE™ EYE-OPENER+® Conductor - 5 meter length

Hybrid Cables Available: QSIBNXXXX-L - QSFP to MicroGiGaCN™ (IB-4X) connector

MicroGiGaCN is a trademark of Fujitsu General Group

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FEATURES AND BENEFITS

- "Best-in-Class" jitter performance
- Meets all QSFP, IBTA and IEEE specification requirements
- RF/microwave PCB for less loss and dispersion (i.e., less jitter)
- Longer lengths due to lower loss and superior signal integrity
- Less common-mode conversion than competing twinax cables
- 40 Gbps link (10 Gbps/channel)
- Proven copper cable reliability
- Smaller diameter for easy handling, routing, and improved air flow for higher system reliability
- GORE™ EYE-OPENER+® Conductor Technology
- Low near-end crosstalk (NEXT)
- Enhanced EMI shielding for low emissions
- RoHS compliant