

# 40Gig™ QSFP+ Active Optical Cable Assemblies

Low Latency 40Gb/s Fiber Optic Interconnect Solution for Leaf to Spine Switching and Top of Rack Applications

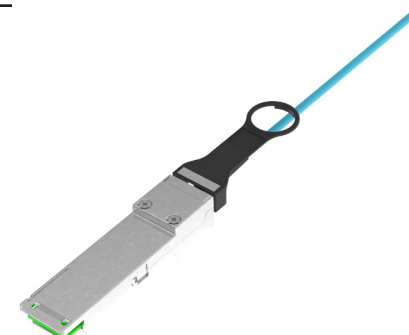
**PANDUIT**<sup>®</sup>  
SPECIFICATION SHEET

## specifications

As virtualization, consolidation, and convergence initiatives continue to grow, so do the demands placed on the physical infrastructure. To meet the needs for faster processing speeds, server inter-connect and I/O consolidation deployments, Panduit offers 40Gig™ QSFP+ Active Optical Cable Assemblies.

The QSFP+ Active Optical Cable Assemblies are constructed with a 3.0mm 8-fiber round unitary cable available in PVC rated jacket materials. These cords are available in OM3 multimode fiber type with high performance insertion loss essential for today's high-speed systems requiring very low connector insertion loss. QSFP+ 40Gig™ cable assemblies provide four channels of 10 Gb/s in one cost effective interface that offers up to four times the density of SFP+ 10Gig™ cable assemblies.

End-to-end high-speed data transport systems from Panduit deliver enhanced availability, agility, and security. Visit [www.panduit.com](http://www.panduit.com) to learn more about how these solutions help customers manage risk across the physical infrastructure.



## key features benefits

<b>100% performance tested</b>	Confidence that each assembly delivers specified performance for ensured network availability
<b>Compliant to SFF-8636, SFF-8661, and SFF-8679</b>	Ensuring 40 Gb/s performance when mated to any SFF-8636 QSFP+ compliant host port
<b>Robust construction</b>	Multimode fiber cable, factory terminated to QSFP+ 40 Gb/s hot pluggable modular connectors; rated to a minimum 50 mating cycles
<b>Low latency performance</b>	Ideal for high performance computer clustering and other latency sensitive applications
<b>Low power active circuitry</b>	Provides a low cost interconnect alternative to optical transceivers that can be driven off the existing port power
<b>Low profile</b>	Robust easy-to-use connector latching feature allows easy installation in traditional and belly-to-belly high density installations
<b>Small diameter cable design</b>	Enables proper cable management and improved air flow
<b>Built-in strain relief</b>	Ensures proper bend radius control for reliable deployment
<b>Variety of lengths</b>	Available 1 to 30 meters for design flexibility

## technical information

<b>Characteristic impedance:</b>	100 +/- 10 Ω
<b>Temperature range:</b>	0°C to 70°C (32°F to 158°F)
<b>IEC flame compliance:</b>	IEC 60332, 60333, 60324
<b>Bend radius:</b>	5 x O.D. single time, 10 x O.D. repeated times; O.D. – 3.0mm
<b>Insertion force to cage:</b>	18N (4 lbf.) maximum
<b>Withdrawal force from cage:</b>	12.5N (2.8 lbf.) maximum
<b>Retention force:</b>	90N (20 lbf.) minimum
<b>ROHS status:</b>	Compliant

## key applications include

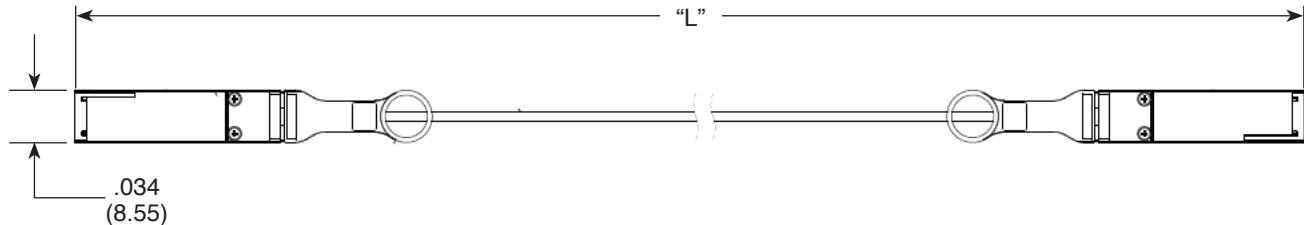
- Leaf to Spine Switching
- I/O Consolidation
- Fibre Channel Over Ethernet (FCOE)
- 10Gig™ and 40Gig™ Ethernet
- High Performance Computer Clustering

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## ordering information

Part Number	Length (m)	Length (Ft.)	Fiber Type	Jacket
AX83NQPQPAQM001	1	3.3	OM3	PVC
AX83NQPQPAQM002	2	6.6	OM3	PVC
AX83NQPQPAQM003	3	9.8	OM3	PVC
AX83NQPQPAQM005	5	16.4	OM3	PVC
AX83NQPQPAQM007	7	23.0	OM3	PVC
AX83NQPQPAQM010	10	32.8	OM3	PVC
AX83NQPQPAQM015	15	49.2	OM3	PVC
AX83NQPQPAQM020	20	65.6	OM3	PVC
AX83NQPQPAQM025	25	82.0	OM3	PVC
AX83NQPQPAQM030	30	98.4	OM3	PVC



Dimensions are in inches. (Dimensions in parenthesis are metric).

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