

# 100Gig™ QSFP28 Active Optical Cable Assemblies

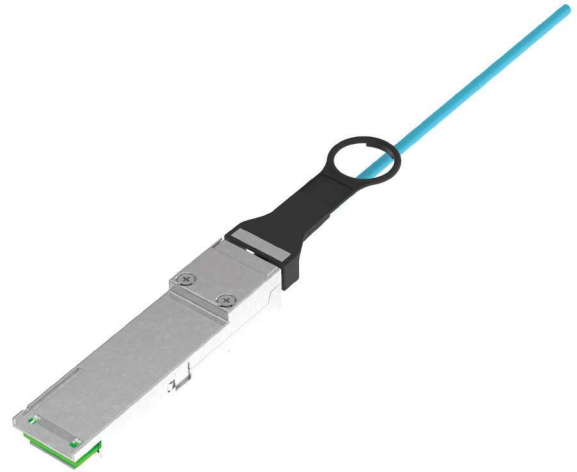
## Low Latency 100Gb/s Fiber Optic Interconnect Solution for Leaf to Spine Switching and Top of Rack Applications

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 100Gig™ QSFP28 Active Optical Cable Assemblies.

The QSFP28 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 OM4 multimode fiber type with high performance insertion loss essential for today's high-speed systems requiring very low connector insertion loss.

QSFP28 100Gig™ cable assemblies provide four channels of 25 Gb/s in one cost effective interface that offers up to four times the density of SFP28 25Gig™ 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 100 Gb/s performance when mated to any SFF-8636 QSFP28 compliant host port
<b>Robust construction</b>	Multimode fiber cable, factory terminated to QSFP28 100 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

### Key applications include:

- Top of Rack, End of Row, Middle of Row Switching
- I/O Consolidation
- Fibre Channel Over Ethernet (FCOE)
- 100Gig™ Ethernet
- High Performance Computer Clustering

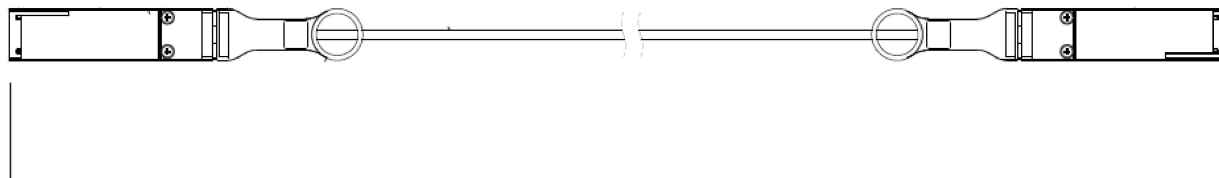
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## Technical Information

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

## Ordering Information

Part Number	Length (m)	Length (Ft.)	Fiber Type	Jacket
AZ83NQ2Q2AQM001	1	3.3	OM4	PVC
AZ83NQ2Q2AQM002	2	6.6	OM4	PVC
AZ83NQ2Q2AQM003	3	9.8	OM4	PVC
AZ83NQ2Q2AQM005	5	16.4	OM4	PVC
AZ83NQ2Q2AQM007	7	23.0	OM4	PVC
AZ83NQ2Q2AQM010	10	32.8	OM4	PVC
AZ83NQ2Q2AQM015	15	49.2	OM4	PVC
AZ83NQ2Q2AQM020	20	65.6	OM4	PVC
AZ83NQ2Q2AQM025	25	82.0	OM4	PVC
AZ83NQ2Q2AQM030	30	98.4	OM4	PVC



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