25Gig™ SFP28 Active Optical Cable Assemblies

Low Latency 25 Gb/s Fiber Optic Server Interconnect Solution for Top of Rack Switching 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, low power server inter-connect and I/O consolidation deployments, Panduit offers 25Gig™ SFP28 Active Optical Cable Assemblies.

The SFP28 Active Optical Cable Assemblies are constructed with a 3.0mm 2-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.

These active SFP28 fiber cable assemblies contain low power circuitry in the connector to boost the signal and are driven from the port without additional power requirements. They provide a low-cost alternative to pluggable optical transceivers and are generally used for end of row or middle of row data center architectures.

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

Key Features	Benefits
100% performance tested	Confidence that each assembly delivers specified performance for ensured network availability
Compliant to SFF-8419, SFF-8432 and SFF-8472	Ensuring 25 Gb/s performance when mated to any SFF-8419 SFP28 compliant host port
Robust construction	Multimode fiber cable, factory terminated to SFP28 25 Gb/s hot pluggable modular connectors; rated to a minimum 50 mating cycles
Low latency performance	Ideal for high performance computer clustering and other latency sensitive applications
Low power active circuitry	Provides a low cost interconnect alternative to optical transceivers that can be driven off the existing port power
Low profile	Robust easy-to-use connector latching feature allows easy installation in belly-to-belly high density installations
Small diameter cable design	Enables proper cable management and improved air flow
Built-in strain relief	Ensures proper bend radius control for reliable deployment
Variety of lengths	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)
- 25 Gigabit Ethernet
- 8 Gb/s Fibre Channel
- High Performance Computer Clustering

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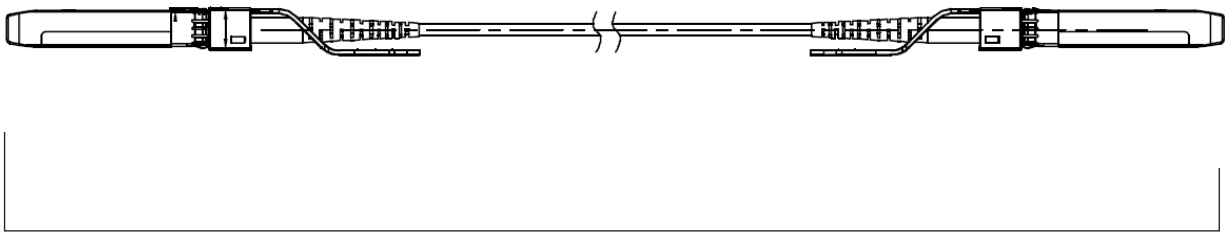
Technical Information

Characteristic impedance	100 +/- 10 Ω
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
AX23NS2S2AQM001	1	3.3	OM3	PVC
AX23NS2S2AQM002	2	6.6	OM3	PVC
AX23NS2S2AQM003	3	9.8	OM3	PVC
AX23NS2S2AQM005	5	16.4	OM3	PVC
AX23NS2S2AQM007	7	23.0	OM3	PVC
AX23NS2S2AQM010	10	32.8	OM3	PVC
AX23NS2S2AQM015	15	49.2	OM3	PVC
AX23NS2S2AQM020	20	65.6	OM3	PVC
AX23NS2S2AQM025	25	82.0	OM3	PVC
AX23NS2S2AQM030	30	98.4	OM3	PVC



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