

10Gig™ SFP+ Active Optical Cable Assemblies

Low Latency 10 Gb/s Fiber Optic Server Interconnect Solution for
Top of Rack Switching Applications

PANDUIT[®]
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, low power server inter-connect and I/O consolidation deployments, Panduit offers 10Gig™ SFP+ Active Optical Cable Assemblies.

The SFP+ 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 SFP+ 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-8431, SFF-8432 and SFF-8472	Ensuring 10 Gb/s performance when mated to any SFF-8431 SFP+ compliant host port
Robust construction	Multimode fiber cable, factory terminated to SFP+ 10 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

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

key applications include

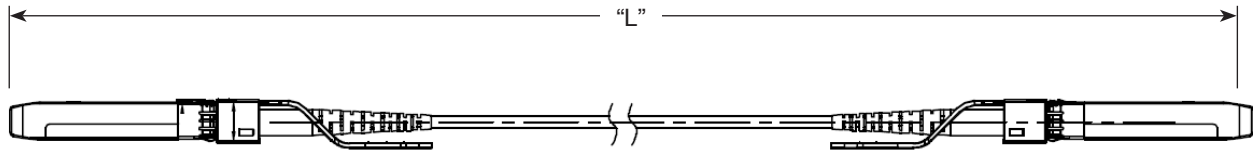
- Top of Rack, End of Row, Middle of Row Switching
- I/O Consolidation
- Fibre Channel Over Ethernet (FCOE)
- 10 Gigabit Ethernet
- 8 Gb/s Fibre Channel
- High Performance Computer Clustering

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ordering information

Part Number	Length (m)	Length (Ft.)	Fiber Type	Jacket
AX23NSPSPAQM001	1	3.3	OM3	PVC
AX23NSPSPAQM002	2	6.6	OM3	PVC
AX23NSPSPAQM003	3	9.8	OM3	PVC
AX23NSPSPAQM005	5	16.4	OM3	PVC
AX23NSPSPAQM007	7	23.0	OM3	PVC
AX23NSPSPAQM010	10	32.8	OM3	PVC
AX23NSPSPAQM015	15	49.2	OM3	PVC
AX23NSPSPAQM020	20	65.6	OM3	PVC
AX23NSPSPAQM025	25	82.0	OM3	PVC
AX23NSPSPAQM030	30	98.4	OM3	PVC



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