

SFP28 Passive Direct Attach Copper (DAC) Cable Assemblies

Low Power, Low Latency 25 Gb/s Server Interconnect Solution for Top of Rack Switching Applications

High bandwidth interconnects are required for next generation data centers. Panduit offers SFP28 Direct Attach Copper Cable Assemblies. These passive cables provide a cost-effective solution for interconnecting high speed 25GbE switches and servers.

This high speed data transport capability is ideal as server virtualization becomes more prevalent. With multiple virtual machines, server I/O consolidation topology requires 25 Gb/s interconnects between top of rack switches and servers. By incorporating SFP28 Passive DAC Cable Assemblies into the physical infrastructure, businesses can achieve 25 Gigabit performance port-to-port without additional signal processing or conversion, providing a low power, low latency server interconnect for top of rack switching applications.



| Key Features | Benefits |
|---|--|
| 100% performance tested | Confidence that each assembly delivers specified performance for ensured network availability |
| Compliant to SFF-8402, SFF-8432, and SFF-8472 | Ensuring 25 Gb/s performance when mated to any SFF-8402 SFP28 compliant host port |
| Robust construction | High speed 22 GHz twin-axial cable, with two shielded parallel pairs, factory terminated to SFP28 25 Gb/s hot pluggable modular connectors; rated to a minimum 250 mating cycles |
| Low latency performance | Ideal for high performance computer clustering and other latency sensitive applications |
| Passive low power assembly | Provides a low cost short reach interconnect option with no additional power draw |
| 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 | 1 to 5 meters (1 meter increments) for design flexibility and optimum airflow |

Key Applications Include:

- Top of Rack Switching
- I/O Consolidation
- Fibre Channel Over Ethernet (FCOE)
- 25 Gigabit Ethernet
- 16 Gb/s Fibre Channel
- High Performance Computer Clustering

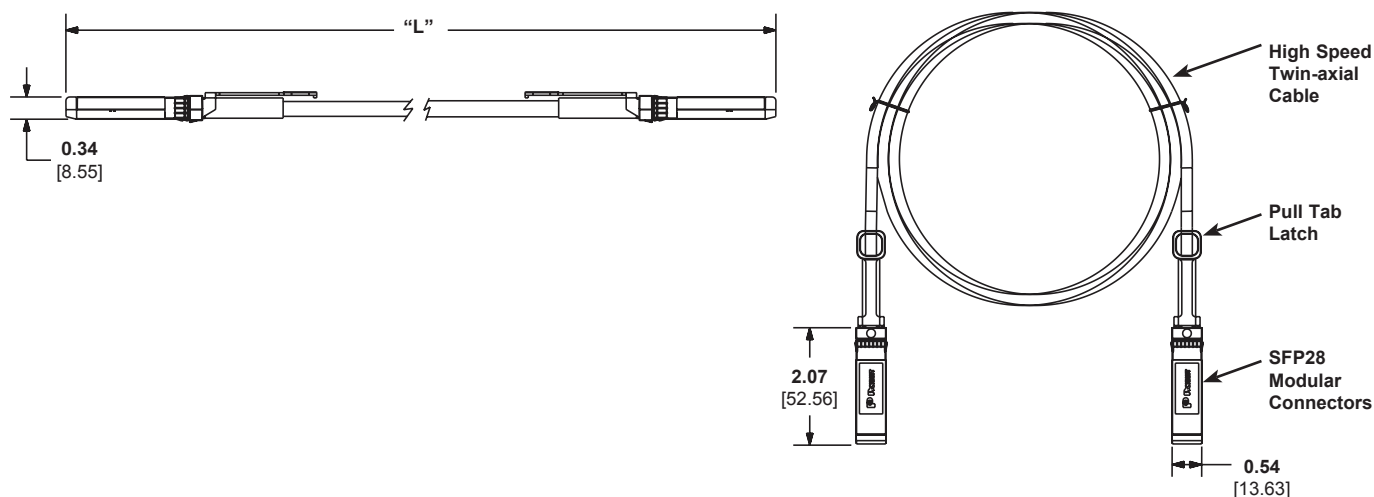
SFP28 Passive Direct Attach Copper (DAC) Cable Assemblies

Technical Information

| | |
|----------------------------|--|
| Characteristic impedance | 100 ± 5 Ω |
| Temperature range | -25°C to 80°C (-13°F to 176°F) |
| IEC flame compliance | IEC 60332, 60333, 60324 |
| Bend radius | 5 x O.D. single time, 10 x O.D. repeated times |
| Insertion force to cage | 18N (4 lbf.) maximum |
| Withdrawal force from cage | 12.5N (2.8 lbf.) maximum |
| Retention force | 90 – 170N (20 – 38 lbf.) |
| ROHS status | Compliant |

Ordering Information

| Part Number | Length (m) | Length (ft.) | Cable Gauge | Nominal Cable O.D. | | Cable Jacket |
|-------------|---------------|-----------------|-------------|--------------------|--------|--------------|
| | | | | mm | Inches | |
| PSF2PXA1MBL | 1 | 3.3 | 30 AWG | 4.1 | 0.161 | PVC |
| PSF2PXA2MBL | 2 | 6.6 | 30 AWG | 4.1 | 0.161 | PVC |
| PSF2PXA3MBL | 3 | 9.8 | 30 AWG | 4.1 | 0.161 | PVC |
| PSF2PXC4MBL | 4 | 13.1 | 26 AWG | 4.9 | 0.193 | PVC |
| PSF2PXC5MBL | 5 | 16.4 | 26 AWG | 4.9 | 0.193 | PVC |



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