

1 Equipment Distribution Area

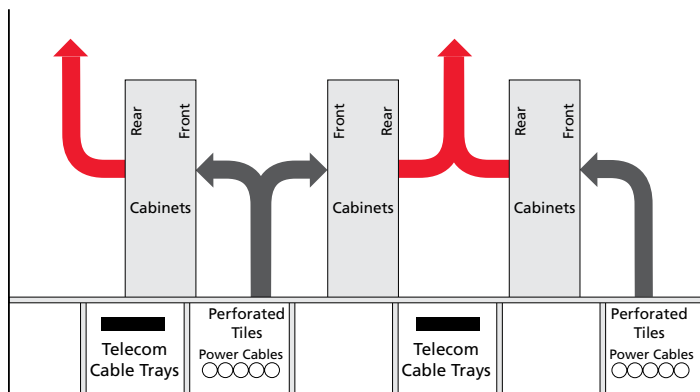
The EDA contains equipment cabinets and racks installed in an alternating pattern to create "hot" and "cold" aisles for heat dissipation. Horizontal cables are terminated with patch panels in the EDA. These ADC products are typical of the component mix found in the EDA.

- CopperTen® Patch Panel
- TrueNet® Category 6 Angled Patch Panel
- High-Performance Category 6 and 6A Patch Cords
- TFP Series Fiber Panel
- TracerLight® Fiber Jumpers



Top: TracerLight® Fiber Jumpers
Center: Angle Right/Left Patch Panel
Bottom: 1RU TFP Series Fiber Panel

Hot Aisle/Cold Aisle Cooling



The hot aisle/cold aisle configuration is vital to ensure reliability in your data center.

- In the cold aisle, arrange equipment racks face to face; in the hot aisle, arrange them back to back
- Use perforated tiles with larger openings, but do not use them in hot aisles, to keep hot air from mingling with cold

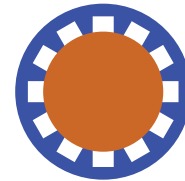
2 Horizontal Cabling

Horizontal cabling provides connections between the HDA, ZDA, and EDA. Each functional area must be located in such a way to prevent exceeding maximum cable lengths for both backbone (300m) and horizontal cabling (100m). These ADC products are typically found in the horizontal cabling area.

- CopperTen® Augmented Category 6 Cable
- TrueNet Category 6 Cable
- TrueNet Laser Optimized Fiber
- FiberGuide®

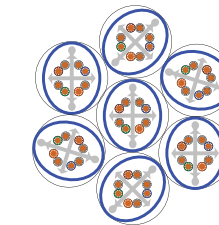


Top: CopperTen® Structured Cable
Bottom: Patch Cords



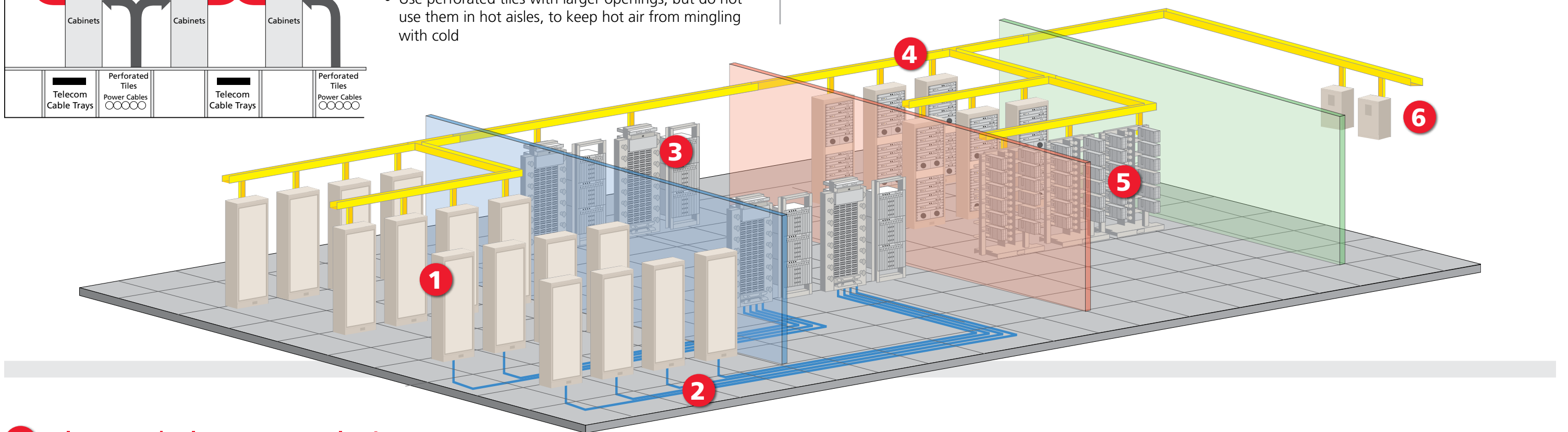
AirES uses air as part of the conductor insulation, which enhances signal speed and strength.

AirES®



CopperTen is the world's first Augmented Category 6 cable. The patent design minimizes alien crosstalk.

CopperTen®



3 Plug-and-Play MPO Solutions

The HDAs serve as the distribution points for horizontal cabling and house cross-connects and equipment for distributing cable to the EDA. Fiber and UTP should be installed in separate racks in the HDA, and switches and patch panels should be located to minimize patch cord lengths for manageability.

MPO Solutions

- Easy to configure TFP series panels accept 12- or 24-count LC to MPO cassettes
- MPO trunk cables have small diameter and no preferential bend for easy routing and space savings

Interconnection vs. Cross Connection

- Interconnects are prevalent in LANs and can work in smaller data centers. But in larger data centers, an interconnect scenario limits growth and manageability. The use of a central patching location in a cross-connect scenario provides a logical and easy-to-manage infrastructure.
- Lowers operating costs
- Enhances reliability
- Reduces risk of down time



Top: TFP Series Fiber Panel
Bottom: Glide Cable Management

5 Main Distribution Area

Similar to an MDF, the MDA is a centrally located area that houses the main cross-connect as well as core routers and switches for LAN and SAN infrastructures. The MDA may include a horizontal cross-connect (HC) for a nearby equipment distribution area. The TIA-942 standard requires at least one MDA and specifies installing separate racks for fiber, UTP, and coaxial cable in this location. These ADC products help you meet the three principles of data center design in the MDA.

- Data Center Optical Distribution Frame (ODF)
- TFP Series Fiber Panel
- FMT Termination and Storage Panel
- Glide Cable Management

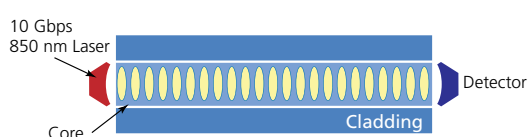


Optical Distribution Frame with an MPO solution

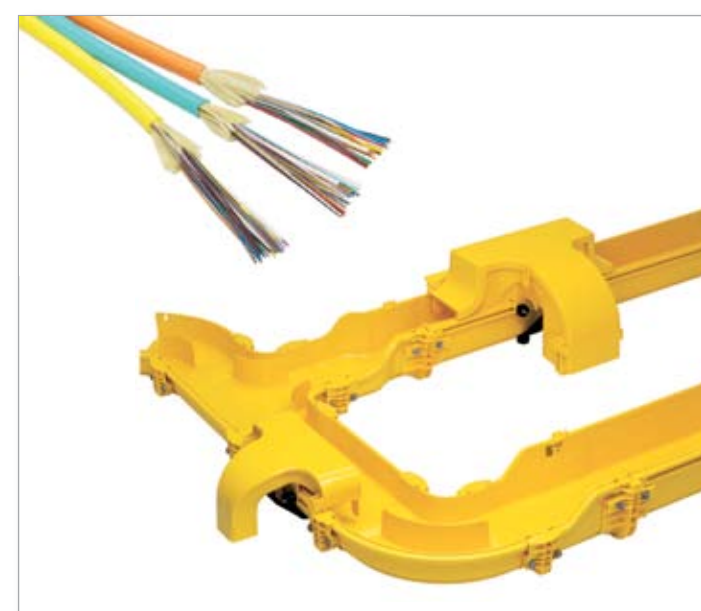
4 Backbone Cabling

Backbone cabling provides connections between MDA, HDAs, and Entrance Rooms. Each functional area must be located in such a way to prevent exceeding maximum cable lengths for both backbone (300m) and horizontal cabling (100m).

- Low-Water Peak Single mode Fiber
- Inter-Locking Armored Fiber



Laser-Optimized Fiber



Top: Fiber Cables; Bottom: FiberGuide

6 Entrance Room

This is the location for access provider equipment and demarcation points, as well as the interface with campus cabling systems. The entrance room may be located either inside or outside the computer room, the portion of the data center that houses data processing equipment. TIA-942 standard recommends locating the entrance room outside of the computer room for better security. These ADC products meet the requirements of the entrance room.

- FL2000 Termination and Splice Panel
- WMG Wall Mount Panel



FL2000 Termination/Splice Chassis