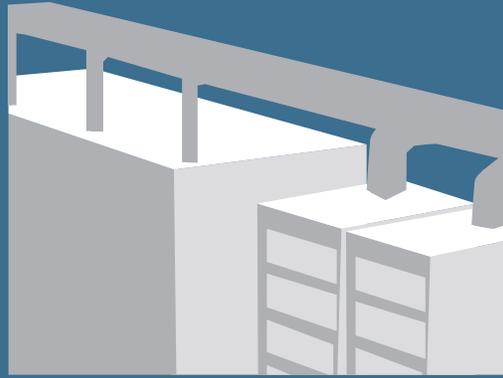


Anixter Complete  
Technology Solutions

# NETWORK INFRASTRUCTURE



## CABLE MANAGEMENT AND PATHWAYS

A variety of routing, raceway and conveyance systems are available for distributing, supporting and protecting network infrastructure cabling. The type of system and the installation method depend on the media being supported and the environment it will traverse.

### COMPONENTS OF YOUR COMPLETE CABLE MANAGEMENT SOLUTION

Cable Management	Uniformly organizes cords and jumpers for efficient moves, adds and changes while reducing thermal inefficiencies.
Cable Tray	Overhead or underfloor cable conveyance system used in technical spaces and open office environments.
Fiber Ducting	Overhead cable conveyance system specifically designed to distribute, protect and secure fiber optic cables.
Cable Support	Support and organization above suspended ceilings and in crawl spaces, attached to beams, walls, concrete, flanges and threaded rod.
Firestopping Systems	Fire protection systems made of various components used to seal openings and joints in fire-resistance-rated walls or floor assemblies for cable penetration.

#### WE ADD VALUE BY ENABLING:

Technology Selection	Systems Interoperability	Project Deployment
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Cabling distribution should utilize a solution that will

- Accommodate cabling changes
- Minimize occupant disruption when horizontal pathways are accessed
- Allow for future growth

Source: TIA-569 Pathways & Spaces Standard.

### COMMON CHALLENGES



Continuous  
**REMEDIATION**



**BEND** radius  
restrictions



**FILL** capacity  
limitations



**PATHWAY**  
clearances



Trade  
**COORDINATION**

## TECHNOLOGY SOLUTIONS



### Continuous remediation

Cable management and pathways are constantly challenged with moves, adds and changes, forcing the need for proper cable routing and maintaining adequate pathway capacity. Proper planning will assist in eliminating extended rework or downtime.



### Bend radius restrictions

During installation, cables are bent or flexed in various environments. The cables' construction may become compromised if stressed too far. To prevent damage, follow the cable standard requirements for minimum bend radius.



### Fill capacity limitations

Fill capacity is an estimate of the maximum number of cables that will fit within a single pathway based on the cable type, outside diameter and area that is occupied. Avoid overfilling to allow for future growth and to prevent damage to the cabling.



### Pathway clearances

When planning overhead and underfloor conveyance systems, the pathway must be clear to ensure no collision with equipment will occur. In addition, other ceiling-mounted systems may dictate the type of conveyance system, the path chosen and the methods of installation. For best results, trade coordination is recommended.



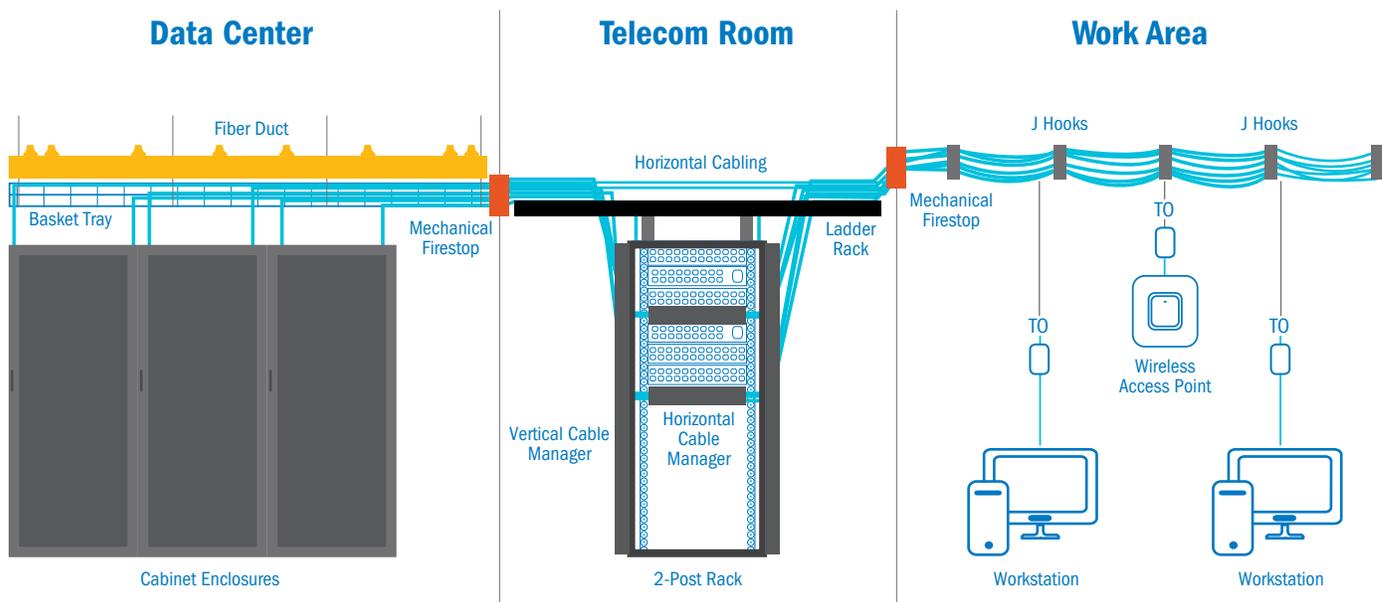
### Installation trades coordination

Depending on the environment and the specified conveyance system, specific trades may be required for installation by union regulation, but coordination amongst all trades involved in a project is essential from design to installation. Verify this is addressed with the General Contractor via your infrastructure project manager, consultant, or installer.

## CONCEPTUAL SYSTEM LAYOUT

### Cable management and pathways solutions supplied by Anixter

For system installation, we recommend working with a certified contractor.



FOR MORE INFORMATION VISIT [ANIXTER.COM/INFRASTRUCTURE](https://www.anixter.com/infrastructure) OR CONTACT YOUR LOCAL ANIXTER REPRESENTATIVE.

At Anixter, we help build, connect, power, and protect valuable assets and critical infrastructures. From enterprise networks to industrial MRO supply to video surveillance applications to electric power distribution, we offer full-line solutions—and intelligence—that create reliable, resilient systems that can sustain your business and community. Through our unmatched global distribution network, supply chain management expertise and technical know-how, we drive efficiency and effectiveness to benefit your bottom line.