A structured cabling system is the foundation on which your overall information system strategy is built. Are you developing a new installation, considering upgrading your infrastructure to accommodate 40/100G speeds in your data center, or do you just want to clean up a messy existing cable installation that results in downtime? Planning is critical, especially since your project will generally involve many people, companies and technologies. To assure the success of your next structured cabling project, take time to:

• Define the project
• Choose the vendor
• Plan the project
  • Pre-Installation
  • Installation
  • Post-Installation

1. Define the Project

Before contacting vendors for quotes, do an assessment of your needs and outline the scope of the project:

• What is / are the goal(s) of your project?
• Describe your company’s building or campus.
• Is there an existing structure cabling installation?
  • If yes, what type?

☐ Glass Fiber ☐ Twisted Pair ☐ Cat5/5e CAT6 ☐ Other

• How many building on the campus?
• What is the distance between the buildings?
• How many floors are in each building?
• Which technologies are used for the backbone, connecting the terminals and connecting the server?

Before Installation
Check these items before you start installing

• All permits are available for inspection
• Sites are prepared, power is available
• All components are inspected and on site
• 24 hour security is arranged if needed
• The contractor is available

• All personnel have been notified
• Safety rules are posted on the job site(s) and have been reviewed with installation personnel
2. Choose the Vendor

Selecting a qualified, credentialed, committed partner is critical for your initial installation, as well as for future moves, additions and changes. Here are some questions you should ask potential installers:

- How long have you been in business?
- How much insurance coverage do you have?
- How many technicians do you have?
- How many are full time employees?
- Will you use subcontractors?
- How much experience do your technicians have? List Certifications or Training.
- What cabling certifications does your company hold?
- How does your company test and validate your cable installations?
- What cable and network testers do you own?
- Can you provide 3-5 references for similar projects?
- What documentation do you provide after completing the installation?
- Do you provide ongoing maintenance to help up maintain our network operations?

3. Plan the Project

Planning for the installation is an important phase of any project since it involves coordinating activities of many people and companies. The best way to keep everything straight is to develop a checklist based on the infrastructure design. Although each installation will have unique considerations, every structured cabling project should address these items:

3a. Pre-Installation

1. Assign an internal project manager
2. Establish communication and reporting requirements
3. Define equipment and component requirements
4. Choose a qualified installer (see above)
5. Choose a link route and obtain permits
6. Choose cable plant components
7. Coordinate with facilities and electrical personnel
8. Complete documentation and preliminary restoration plans to prepare for install
9. Finalize test plan
10. Schedule start date for installation and inform all stakeholders
11. Order components, set delivery date, coordinate receiving materials, arrange security if left outside or at construction site
12. Tour link route with contractor
13. Review with contractor:
   - Construction plans
   - Components
   - Schedule
   - Test plan
   - Safety rules
   - Excess materials being kept for restoration
3b. Installation

On a daily basis, the Project Manager should:

- Inspect workmanship
- Review process, progress, test data
- Be notified immediately of problem, shortages, etc

3c. Post-Installation

It is critical to test your structured cabling infrastructure immediately after installation to verify performance:

- Inspect workmanship
- Review test data on cable plant
- Set up and test communications systems
- Update and complete documentation
- Update and complete restoration plan

No matter what you need to connect, Total Communications has a solution! From structured cabling to wireless communications systems, you can rely on us for secure, high-performance infrastructures! As the basic foundation on which all your other network equipment depends, a cabling solution from Interoptic Systems can create a reliable infrastructure that will offer you significant savings.

We look forward to working with your company or organization to build a reliable infrastructure that will support your mission critical applications now and in the future.

Infrastructure Solutions

- Infrastructure Design, Installation & Maintenance
- Outside Cable Plant Design & Installation
- Voice / Video / Data Infrastructures
- Safety Alarm / Security Access
- Energy Mgmt. & HVAC Cabling
- Fiber Networks
- Single Mode & Multi Mode Dark Fiber Networks

Network Cabling Services

- Design, Installation & Management
- Certification of New & Existing Cable Plants
- Ongoing Data / Voice / Video Support
- Media Type Recommendations
- Full Documentation, Test Reports & CAD Drawings
- ODTS Testing for Single Mode & Multi mode Fiber Optic Installations

Additional Services

- Network Design & Network Equipment
- Telecom / Data / Video Equipment Installation & Maintenance
- Residential Infrastructures (Selected projects only)

Wireless Solutions

- Design & Installation of Wireless Systems
- Wireless LAN
- Site Surveys

Corporate HQ
860.282.9999
333 Burnham Street
E. Hartford, CT 06108

Southern CT
203.882.0088
500 Bic Dr. Bldg. 2
Milford, CT 06461

©2016 Total Communications Incorporated All rights reserved Revised 2/17/2016