Structured cabling systems and information transport systems

Cyxtera Technologies, Inc. offers complete design and installation services associated with Structured Cabling Systems (SCS) and Information Transport Systems (ITS).

Cyxtera provides the physical connectivity associated with Carrier Service Delivery (CSD) to a customer cage and also has the ability to offer design and installation services associated with infrastructure builds within the cage environment. These elements are critical when delivering a high-performance, reliable network system infrastructure for any requirement. Our end-to-end design-build services utilize properly trained and certified installers working under the direction of experienced RCDD design teams and project managers.

CYXTERA'S PROCESS

The Cyxtera design and implementation teams are involved in every aspect of structured cabling installations. They monitor and manage solution performance and system integrity while adhering to Cyxtera's standards. The team members hold globally recognized certifications from professional and industry associations such as: the Building Industry Consulting Service International (BICSI), Registered Communications Distribution Designers (RCDD), Certified Installer, Project Management Professional (PMP) and Network Technology Systems (NTS).

The certification process recognizes exceptional individual qualifications and expertise in the design, integration and implementation of telecommunications systems and their related infrastructure components.

CYXTERA'S FIVE-STEP PROCESS

Detailed requirements gathering and sign-off between client and engineering staff

Documented design program for clear understanding

Pricing based on project and design scope for accuracy

Complete solution: engineering and installation

Documented solution and project sign-off-as-builts and test results

The RCDD certification is obtained by individuals who have proven industry expertise and are actively involved in network infrastructure design and installations. Those certified offer architectural, engineering and design services and manage and perform implementations.

Cyxtera has developed global business standards for our services provided to a wide range of clients:

- Consistent Cyxtera design configurations.

- Well-defined data center installation parameters to enhance on-site aesthetics.

- Establishing data center standards with physical infrastructure manufacturers including component and workmanship warranties.

- National product pricing and stocking levels to enable rapid deployment.

- National standards for uniform labeling, testing and documentation.

- Designing data centers in accordance with TIA-942 developed by the Telecommunications Industry Association (TIA) to define planning and building data centers, particularly cabling systems and network design.

- The TIA-942 specification references private and public domain data center requirements for applications and procedures and apply to both copper and fiber optic media.

- Dedicated project management team and a single point-of-contact that will oversee the project for consistent service.

- A dedicated BICSII certified RCDD is involved with managing all aspects of the program.

- The adherence benefits include standard nomenclature, failsafe operation, robust protection against natural or human made disasters, long-term reliability, expandability and scalability.

- Globally, Cyxtera offers market competitive solution pricing specific to client performance requirements. These solutions are based on graded tiers to ensure scalability with compliance standards and pricing and exceeding minimum performance requirements.

STRUCTURED CABLING SYSTEMS (SCS) AND INFORMATION TRANSPORT SYSTEMS (ITS)

The TIA-942 specification references private and public domain data center requirements for applications and procedures such as:

- Network architecture
- Electrical design
- File storage, backup and archiving
- System redundancy
- Network access control and security
- Database management
- Web hosting
- Application hosting
- Content distribution
- Environmental control
- Protection against physical hazards (fire, flood, windstorm)
- Power management

The Cyxtera tiered approach is based on the following performance specifications:

Specification	Grade		
	Value	Standard	Premium
Copper			
Bandwidth	100MHz	250MHz	500MHz
Conductor	Solid	Solid	Solid
Standard	Cat5e	Cat6	Cat6A
	UTP	UTP	UTP
	EMEA: LSZH USA: PLENUM APAC: PLENUM	EMEA: LSZH USA: PLENUM APAC: PLENUM	EMEA: LSZH USA: PLENUM APAC: PLENUM
Cable Color	Varies	Varies	Varies
Termination	RJ45/8P8C	RJ45/8P8C	RJ45/8P8C
Fiber-Multimode			
Classification	OM2	OM3	OM4
Size (core/cladding)	50/125	50/125	50/125
Performance	500MHz@850nm 500MHz@1300nm	2000MHz@850nm 500MHz@1300nm	4700MHz@850nm 500MHz@1300nm
Cable Color	Orange	Aqua	Aqua
Termination	LC	LC	LC
Fiber-Singlemode			
Classification		OS1	
Size (core/cladding)		9/125	
Performance		1310nm/1550nm	
Cable Color		Yellow	
Termination		LC	

MANUFACTURER CERTIFICATIONS:

Belden

Legrand (Berk-Tek/Ortronics)

Cablofil

CommScope — Uniprise and Systimax

Corning Cable Systems

Fluke Networks

Fujikura

Hilti

Hitachi

Hubbell

Leviton

Mohawk

Panduit

Siemon

TYCO/TE