STANDARDS

American National Standard

ANSI/BICSI N1-19

Installation Practices for Telecommunications and ICT Cabling and Related Cabling Infrastructure

BICSI®

ANSI/BICSI N1-2019

Installation Practices for Telecommunications and ICT Cabling and Related Cabling Infrastructure

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PREFACE

Revision History

June 5, 2019 First publication of this standard, titled ANSI/BICSI N1-2019, *Installation Practices for Telecommunications and ICT Cabling and Related Cabling Infrastructure*

Translation Notice

This standard may have one or more translations available as a reference for the convenience of its readers. As that act of translation may contain inconsistencies with the original text, if differences between the translation and the published English version exist, the English text shall be used as the official and authoritative version.

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1 Introduction

1.1 Purpose

This standard specifies best practices for installation of telecommunications and information communication cabling used for communication, signaling, network and related applications. These installation practices are intended to facilitate compliance with applicable codes (e.g., *National Electrical Code®*, *Canadian Electrical Code®*) and to follow the recommendations and requirements of applicable standards.

1.2 Categories of Criteria

Two categories of criteria are specified - mandatory and advisory.

- Mandatory criteria generally apply to protection, performance, administration, and compatibility; they specify the absolute minimum acceptable requirements.
- Advisory or desirable criteria are presented when their attainment will enhance the general performance of system infrastructure in all its contemplated applications.

Mandatory requirements are designated by the word *shall*; advisory recommendations are designated by the words *should*, *may*, or *desirable,* which are used interchangeably in this standard. When possible, recommendations and requirements were separated to aid in clarity.

2 Scope

A structured cabling system is a complete collective configuration of cabling and associated hardware on a premise, which when installed provides a comprehensive telecommunications infrastructure. This infrastructure is intended to support a wide range of telecommunications and information communication technology (ICT) services such as telephone and computer networks. Figure 2-1 illustrates an example of components that comprise a structured cabling system.

This standard describes minimum requirements and procedures for installing the infrastructure supporting telecommunication and ICT cabling (e.g., balanced twisted pair copper cabling, optical fiber cabling) used for signal (e.g., voice, data, video) transmission. Installers should always follow applicable codes and manufacturers' instructions. This standard is intended to be used in describing a "neat and workmanlike manner" as referenced by NFPA 70.

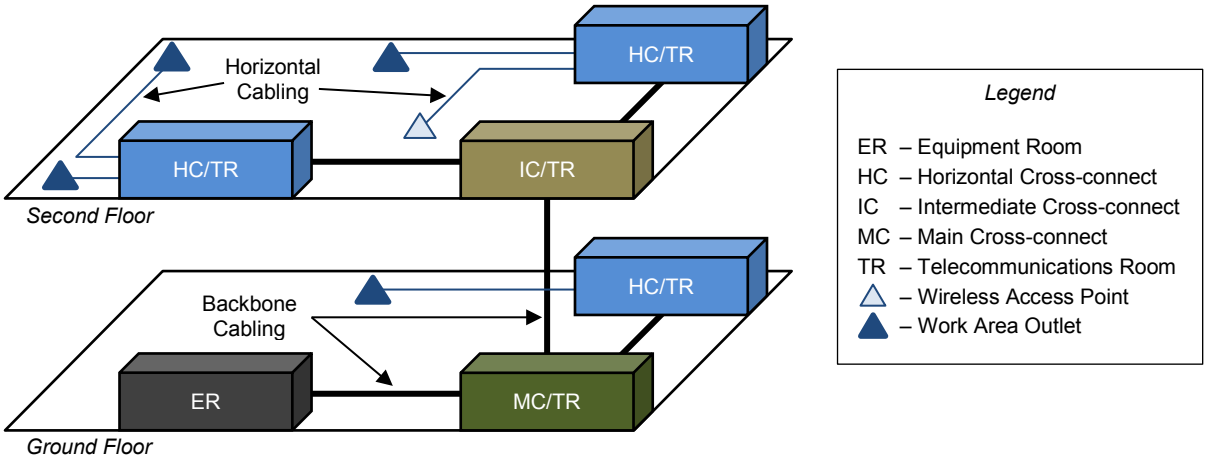

Figure 2-1
Example of a Structured Cabling System