1.1. Introduction and Purpose

This document provides critical updates to the Yale IT design guidelines in between annual document revisions and shall take effect immediately. The scope of this bulletin includes requiring Category 6A structured cabling plant to be provided in lieu of Category 6 for horizontal cabling applications. Category 6A cabling shall be provided to support current and future needs for implementing 10 Gigabit Ethernet (GbE) network connectivity to workstations and end-user devices.

The Category 6A cable plant distribution shall conform to the requirements of the following standards:

- ANSI/TIA-568.0-E: Generic Telecommunications Cabling for Customer Premises
- ANSI/TIA-568.1-E: Commercial Building Telecommunications Cabling
- ANSI/TIA-568.2-D: Balanced Twisted-Pair Telecommunications Cabling and Components
- ANSI/TIA-569-E: Telecommunications Pathways and Spaces

1.2. Horizontal Cabling System Components

The entire horizontal cabling plant system shall be Category 6A rated including the following components:

- Category 6A rated cabling, with the proper insulation rating as required by the application and environment. Cable color shall meet Yale IT standards.
- Category 6A rated 48 port patch panels located in telecom rooms, typically two rack units in height and angled format for new construction.
- Category 6A rated modular jacks, color as required by Yale IT standards.
- Category 6A rated workstation patch cords, colors, and lengths as required by Yale IT standards.
- Category 6A rated reduced diameter telecom room patch cords, colors, and lengths as required by Yale IT standards.

1.3. Horizontal Pathways

Category 6A cabling has a larger diameter as compared to Category 6 cabling. This may require enlarging certain pathways to maintain minimum fill capacity percentages. Provide 1 1/4-inch nominal standard conduit size in lieu of 1-inch conduit size for horizontal pathways to typical workstation outlet boxes. Size sleeves, cable trays, J-hooks, surface raceways, and conduits used for horizontal distribution accordingly to accommodate Category 6A cabling deployments.