

# HellermannTyton

## Proposed MasterFormat™ Section 261109

### PATCH PANELS

#### 1. GENERAL

##### 1.1 SCOPE

This specification covers patch panels used in data/communications wiring installations. The patch panels shall consist of Category 6, Category 5e, Category 3, 100 Base-T and Modular panels.

##### 1.2 CLASSIFICATION AND USE

Patch Panels are to be utilized in dry interiors. HellermannTyton patch panels are listed by Underwriter's Laboratories under file number E216789. The performance of each category patch panel exceeds the proposed or current TIA/EIA and ISO requirements.

##### 1.3 SUBMITTALS

###### 1.3.1 SHOP DRAWINGS

For installations, submit drawings for approval showing the complete layout of all products that make up the complete system for each floor prior to installation with the number and types of patch panels.

###### 1.3.2 AS BUILT DRAWINGS

If variations from approved shop drawings occur during the installation of the system, final, as built drawings, shall be submitted for each floor that has been altered.

#### 2. PRODUCT

##### 2.1 MANUFACTURER

The patch panels specified herein for data/communications wiring installations shall be the patch panels manufactured by HellermannTyton. Other manufacturer's systems may be considered equal if, in the opinion, and the written approval of the engineer, they meet all the performance standard specified herein.

##### 2.2 MATERIALS

The patch panels must have a sturdy construction with thick rolled edges with an attractive flush front appearance. The panels must provide superior performance levels and offer backward compatible performance that can be run in existing and new system installations. The modules shall be replaceable if damaged during installation and the patch panels must contain wire configurations for both 568A and 568B on the same panel. Material and work specified herein shall comply with the applicable requirements of:

1. ANSI/TIA/EIA – 568-B Telecommunications Cabling Standard.
2. ISO/IEC 11801 2<sup>nd</sup> Edition

###### 2.2.1 ALPHASNAP

The AlphaSnap line of patch panels is the ultimate in patch panel technology. They are available in Cat 6 and Cat 5e versions. The panels shall be equipped with individual (that can be replaced if needed) fully modular printed circuit boards. It must also be equipped with a rear cable manager that easily snaps in and out of the back of the patch panel without the need of tools. The AlphaSnap patch panel has a patented slide labeling system where labels are completely covered by a clear mask. The AlphaSnap patch panels are available in 24 and 48 port versions.

#### 2.2.2 UNIVERSAL

The Universal patch panels are pre-configured in 12, 24 and 48 port versions for Cat 6 and Cat 5e. A 96 port version is also available in the Cat 5e. The patch panels must have 6-port modules that can be easily replaced if needed. The panels shall have a clear plastic channel to protect the printed circuit board (PCB) and allow easy viewing of wiring label. Access to a rear cable manager that snaps into the back of the panel must be available.

#### 2.2.3 MODULAR

The modular patch panels shall accept HellermannTyton jacks and multimedia keystone connector modules. The panels must have pre-numbered ports and are available in 12, 16, 24, 32 and 48 port versions. All HellermannTyton keystone modules shall be flush with the front of the panel and snap in from the rear.

#### 2.2.4 100 BASE-T

These patch panels shall utilize 50-pin/25 pair connectors with active pins of 1, 2, 3 and 6. Featuring the slide label system, these panels are available in 24 and 48 port versions.

#### 2.2.5 CATEGORY 3

The Category 3 voice patch panel offers 50 pair cables in an RJ45 presentation. It shall have 50 ports mounted on a right-angled panel that accept 2 pairs per RJ45 circuit. This panel must be terminated from the top working downward.

### 3. EXECUTION

#### 3.1 INSTALLATION

Prior to and during installation, refer to the system layout drawing or installation instructions containing all elements of the system.

Work shall include furnishing all patch panels to install a system as indicated on the data/communications drawings and in the specification. Installer shall comply with detailed manufacturer's instruction sheets, which accompany the patch panels.