



Proposed MasterFormat™ Section 261609

PATCH CORDS

1. GENERAL

1.1 SCOPE

This specification covers patch cords, used data/communications wiring installations. The patch cords shall consist of Category 6, Category 5e, 110 to 110, 110 to RJ45, Telco Cable Assemblies, and Hydra Cable Assemblies.

1.2 CLASSIFICATION AND USE

Patch Cords are to be utilized in dry interiors. The HellermannTyton patch cords are listed by Underwriter's Laboratories under file number E216789. The performance of each Category patch cord 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 cords.

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 cords specified herein for data/communications wiring installations shall be the patch cords 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 and are tested with HellermannTyton connectivity products.

2.2 MATERIALS

The RJ45 to RJ45 patch cords shall consist of stranded UTP, 4-pair cable and must be tested to 100% in compliance with TIA/EIA-568-B. They are available in blue, yellow, green, red, white, black and gray. The 110 to 110 and 110 to RJ45 are available in gray and are wired to T568A or T568B. Material and work specified herein shall comply with the applicable requirements of:

1. ANSI/TIA/EIA – 568-B Telecommunications Cabling Standard.
2. FCC Part 68
3. ISO/IEC 11801 2nd Edition

2.2.1 CATEGORY 6 GIGABAND PATCH CORD

The Category 6 GigaBand patch cords shall feature a snagless latch and strain relief boot. Cords are available in 3, 5, 7, 10, 14 and 20 feet lengths.

2.2.2 CATEGORY 5E PATCH CORD

The Category 5e patch cord comes in lengths of 3, 5, 7, 10, 14 and 25 feet. They shall be assembled with a snagless latch and strain relief boot.

2.2.3 110 CATEGORY 5 PATCH CORD

The 110 to 110 patch cords contain two 4 pair 110 connectors and provide reliable connections between 110 termination blocks. They are available in 3, 7, 10 and 14 foot lengths. The 110 to RJ45 patch cords connect a 4 pair 110 connector to an 8 position modular jack. These cords are available wired as T568A and T568B and are available in 3, 7, 10 and 14 foot lengths.

2.2.4 TELCO CABLE ASSEMBLIES

The Telco cable assembly is a 25 pair stranded cable with a 25 pair male connector on each end. The connector is available as straight or angled at 120 degrees. The Telco assembly is available in lengths of 5, 10 and 15 feet.

2.2.5 HYDRA CABLE ASSEMBLIES

The Hydra cable assembly has 12 RJ45 leads to each 25 pair male connector. The 25 pair connectors are straight or 180 degree exit and the assemblies are available in 5, 10 and 15 foot lengths.

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 faceplates to install a system as indicated on the electrical and/or data/communications drawings and in the specification.