SECTION 27 05 29

HANGERS AND SUPPORTS FOR COMMUNICATIONS SYSTEMS

PART 1 - GENERAL

1.1 SUMMARY

A. This section shall govern the products and installation of hangers and supports for communications systems.

1.2 RELATED DOCUMENTS

A. The latest versions of the following codes, standards, and guidelines shall be followed. Bring to ITS' immediate attention where construction documents or conditions differ from requirements in codes, standards, guidelines and specifications.

B. The following codes, as required by law:

1. National Electric Code (NEC)

C. The following standards:

1. TIA-569-B, Commercial Building Standard for Telecommunications Pathways and Spaces
2. NECA/BICSI 568-2006, Installing Commercial Building Telecommunications Cabling

D. The following guidelines:

1. BICSI, Telecommunications Distribution Methods Manual (TDMM)
2. BICSI, Information Transport Systems Installation Methods Manual (ITSIMM)

1.3 SUBMITTALS

A. The following submittals are due at the Pre-Construction Phase, in accordance with submittal requirements in Section 27 00 00 Communications:

1. Product Information
   a) Provide manufacturer's product information cutsheet or specifications sheet with the specific product number identified or filled out.
2. Shop Drawings
   a) In conjunction with horizontal and backbone cable routing, provide scaled drawings (not less than 1/8" = 1'-0") indicating routing of cable and means of support (where supported by cable tray vs. j-hooks). *These locations are to be fully coordinated with all other trades.*

B. The following submittals are due Post-Construction, in accordance with the submittal requirements in Section 27 00 00 Communications:

1. Record Drawings
   a) In conjunction with horizontal and backbone cable routing, provide scaled drawings (not less than 1/8" = 1'-0") indicating routing of cable and means of support. Design drawings or shop drawings modified in the field will not be accepted.
2. Manufacturer and Maintenance Manuals for all installed equipment.

a) Provide manufacturer's product information cutsheet or specifications sheet with the specific product number identified or filled out.

PART 2 – PRODUCTS

2.1 CABLE HOOKS (J-HOOKS)

A. Cable hooks shall:

1. Be listed by a NRTL for installation into a plenum space.
2. Be specifically designed for telecommunications cables.
3. Bear a surface of sufficient width to comply with required bend radii of high-performance cables;
4. Have flared edges to prevent damage while installing cables.
5. Include a top latch to keep cable within the hook. The cable retainer strap shall be removable and reusable and be suitable for use in air handling spaces.

B. Cable support sling shall:

1. Be constructed from steel and woven laminate
2. Have a static load limit of 100 lbs.

C. Manufacturer shall be:

1. Cooper B-Line, BCH Series
2. Erico, Cablecat Series
3. Panduit, J-Pro Series
4. Or approved equivalent

PART 3 - EXECUTION

3.1 GENERAL

A. Follow all manufacturers' instructions.

B. Coordinate with all other trades prior to installation.

C. All telecommunications cabling not routed through conduit or cable tray shall be supported every 60" or less.

D. Telecommunications cables shall not be supported by any other trades, and shall be fully-supported by independent methods.

3.2 CABLE HOOKS (J-HOOKS)

A. Cable hooks, shall not be supported by ceiling grid support wires.

B. Where support wires are used, independent support wires shall be attached to the structural ceiling (above floor deck) on one end and to the suspended ceiling grid on the other end. The prior is meant to carry the load, the latter is meant to act as a "sway control".

C. Size cable hooks to allow for a maximum of 25% capacity to facilitate future installation of cables.

D. Cable hooks shall be installed such that cable slack between supports is a minimum of 6” above ceilings.

E. Provide adequate cable hooks to ensure telecommunications cabling is a minimum of 6” from light fixtures and power conduits.

F. Where telecommunications cabling is being supported with cable hooks, provide a cable hook at every change in direction.

G. Cable hooks shall be installed in a conveniently accessible location. (Refer to definition in Section 27 00 00.)

H. Route cabling such that a minimum of 48” is provided between cabling and electric motors or generators.

END OF SECTION