Standards- Wiring

Added by Steven Hodo, last edited by Steven Hodo on Jul 11, 2011

Cabling

1. All cabling is to be Catagory 6 UTP cable. (unless IR approved)
2. All station and backbone cabling is to be the appropriate color based on cable grade.

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Grey    - Cat 6a    * as of 2011 *
Black   - Cat 6     * as of 2008 *
Blue    - Cat 5 & 5e
White   - Cat 3
Grey    - pre Cat3
Yellow  -          - Facilities Management???   (never use for data)
Red     -          - Fire Alarms???             (never use for data)
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3. All station cabling is to be plenum rated unless otherwise noted.
4. Terminations are to be TIA568B
5. Penetrations through firewalls are to be sealed
6. Service loops (or lack of) determined by situation, provide loops when possible.
7. Standards info regarding J-hooks, light fixtures, etc. go here
8. Bundle management, use velcro strips. No tie wraps or zip ties

Work Areas and End Stations

1. Faceplates are to be white 4 port Leviton (part number?)
2. RJ45 ports/jacks are to be red in color
3. RJ11 ports/jacks are to be white in color

Patch Panels

1. Patch panels are to be TIA568B catagory 6
2. Make/model determined by situation
3. Cable management

Patch Cords

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Feet     Meters     Color
1ft      0.5m       Gray
2ft      0.75m      White
3ft      1m         Yellow
5ft      1.5m       Black
7ft      2m         Green
10ft     3m         Red
15ft     4.5m       Dark Blue
25ft     7.5m       White
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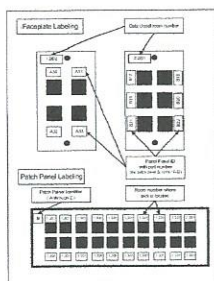
Racks
Rack type and layout

- standard 19"x7'
  - Racks are to be secured in some fashion. (floor, neighboring racks, wall, etc.)
  - Top - 6u, 10.5in (~1ft) - reserved for possible fiber FDC use
  - Middle - 28u, 49in (~4ft) - patch panels, cable management, switches
  - Bottom - 14u, 24.5in (~2ft) - reserved for power supplies and UPS units
  - Do not install patch panels or network hardware less that 2ft from floor level without authorization
- standard wall mount rack info goes here
  - Do not install patch panels or network hardware less that 2ft from floor level without authorization
- caveats go here

Cable trays

1. Cable trays are to be Center Rail Cable Trays
2. Cable trays are to be no less than 12" wide and 4" deep.
3. Rung spacing is to be 12" when possible, no less than 9" and no more than 16".
4. A 6" clearance is needed between the bottom of the tray and dropped ceilings.
5. A 12" clearance is needed above the cable tray.
6. A 6" clearance is needed between the cable tray and walls when they run in parallel.
7. A 24" clearance is needed on one side of the cable tray for technician access.
8. A minimum of 8" should exist between cable trays and fluorescent light ballasts.
9. Cable trays entering comm closets/rooms should proceed straight across the room and be secured to the far wall.
10. If a cable tray enters a comm closet/room higher or lower than 8', an elevation change should be made immediately upon entering to room to bring the tray to the 8' level.

Labeling

Full Size

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Testing

1. All cabling is to be tested after installation and termination
2. Cabling should pass standard tests for 1000base-T
3. Test results are to be provided to UTD in an easy to read/use format such as a text file or Excel. Proprietary file formats are not acceptable.

Warranty Maintenance

Labels: None