MtSAC Technology Standards For:

Classrooms

(Note: These are minimum standards and do NOT encompass all possibilities)

In addition reference Drawing AV-1 (Ceiling Mount Audio Visual)

One Standard Network Drop** on each wall and one in the ceiling at the projector position – Phone Jack on Door Wall – Network drop in floor box (or on the wall when appropriate) at the instructors position.

**A standard “Network Drop” consists of three color coded cables, (1) blue, (1) Gray, and (1) Yellow. The forth space is normally filled with a blank. Where a fourth cable is indicated it should be black.

Cables & MiniCom module(s) are color coded Blue, Grey, Yellow, & Black.
**A standard “Network Drop” consists of three color coded cables, (1) blue, (1) gray, and (1) yellow. The forth space is normally filled with a blank. Where a fourth cable is indicated it should be black.

Cables & MiniCom module(s) are color coded Blue, Grey, Yellow, & Black
MtSAC Technology Standards
For:
Large Office\Small Conference Room
Over 150 sq feet
One Standard Network Drop** on each of three walls, not the Door wall
If AV is indicated for Conference Room reference AV-2 (mobile AV)

**A standard “Network Drop” consists of three color coded cables, (1) blue, (1) Gray, and (1) Yellow. The forth space is normally filled with a blank. Where a fourth cable is indicated it should be black
Conference Room Space
If AV is indicated reference Drawing AV-1 (Ceiling Mount) or AV-2 (mobile AV)

One Standard Network Drop** on opposing walls, one in the ceiling at the projector position, and one in a floor box under the conference table

**A standard “Network Drop” consists of three color coded cables, (1) blue, (1) Gray, and (1) Yellow. The forth space is normally filled with a blank.
Where a fourth cable is indicated it should be black
MtSAC Technology Standards For:

“Other” Space

Spaces defined as other than just storage that may at times be occupied by people - or spaces defined as storage that are over 150 sq ft)

One Network Drop** on each of two opposing walls, not the Door wall – Phone jack on door wall

Reference Specifications page for specific part numbers

**A standard “Network Drop” consists of three color coded cables, (1) blue, (1) gray, and (1) yellow. The forth space is normally filled with a blank. Where a fourth cable is indicated it should be black
**MtSAC Technology Standards For:**

**BDF/IDF Rack Elevations**

*Reference Specifications page for specific part numbers not included here*

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**Outside Edges of Racks**

- Chatsworth Vertical Cable Mgmt - 4.4” 30091-703

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**If Additional Patch Panels Are Needed Add Them To The Outside Racks – Leave the Center Rack Open For Equipment**

- Panduit Frame Patch Panel CPP48WBL
- Chatsworth Horizontal Cable Mgmt 30130-719

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**Between Racks**

- Panduit 48 Port Patch Panel
- Chatsworth Horizontal Cable Mgmt 30130-719

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**Labeling** for the communication ports needs to be consistent with Campus Standard which goes as follows:

- **COMM RM** - RACK - PANEL - PORT
- Where: COMM RM = numeric
- RACK = alphabetic (L to R)
- PANEL = numeric (Top to Bottom)
- PORT = numeric (1 to 48)

So for example, in communication room 2 port 10 of panel 3 on the second rack would be:

- 2B03-10

Campus IT staff will designate communications room numbers but essentially Comm Room 1 would be on the first floor, Comm Room 2 on the second, etc.

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**Electrical Needs**

1. 30-amp 208 circuit with NEMA L6-30 outlet
2. 20-amp 110 circuit (PER RACK)

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- Wiremold CabinetMate Power Strip 7011ULB (Mount on rear of Rack)
- Chatsworth 7’ Standard Rack 55053-703

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Revised 09/2008
**Preferred Room Size**

9 ½’ x 11’

(Allows for preferred ADA Clearance of 42”)

**MtSAC Technology Standards For:**

**BDF/IDF Room Layout**

**Minimum Room Size**

8 ½’ x 10 ½’

(Allows for Min ADA Clearance of 36”)

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**BDF/IDF Room Size**

Shall be a minimum of 100 sq ft and arranged in such a way as to enable (3) fully loaded 19” 2-post racks with cable management as shown in a single row with a minimum ADA clearance of 36” on both long sides and one short side. Forty two inches of clearance is preferred.

**BDF/IDF Locations**

Campus IT prefers there be at least one BDF/IDF per floor per building however even if that is not possible:

**NO POINT in any Building should be more than 250 feet from a BDF or IDF**

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Revised 09/2008
MtSAC Technology Standards For:
Building Infrastructure Pathways

There Should be Two Separate and Distinct Exterior Data pathways

one in and one out of a building. They should not share a single point of failure outside the building.

Roof Penetration
A single 4" conduit is required from one of the buildings’ IDFs to penetrate through the roof for data connectivity.

All Building Communications rooms should be interconnected with (2) 4" conduits. These should be populated with building appropriate sized fiber and copper pairs. (Check with Campus IT for appropriate sizing/cable counts.)
MtSAC Technology Standards For:
Specifications Detail

**RACK COMPONENTS**
- Chatsworth 7' Standard Rack 55053-703
- Chatsworth Vertical Cable Mgmt - 10”30093-703
- Chatsworth Vertical Cable Mgmt - 6”30092-703
- Chatsworth Vertical Cable Mgmt - 4.4”30091-703
- Chatsworth Horizontal Cable Mgmt 30130-719
- Wiremold CabinetMate Power Strip 7011ULBD

**CATEGORY 6 COMPONENTS**
- Belden Datatwist Cable - Blue 7882A-006
- Belden Datatwist Cable - Gray 7882A-008
- Belden Datatwist Cable - Yellow 7882A-004
- Belden Datatwist Cable – Black 7882A-010
- Belden Datatwist Cable – Green 7882A-005
- Belden Datatwist Cable – Orange 7882A-003
- Belden Datatwist Cable – Red 7882A-002
- Panduit CAT 6 Jack – Blue CJ688 TG BU
- Panduit CAT 6 Jack – Gray CJ688 TG IG
- Panduit CAT 6 Jack – Yellow CJ688 TG YL
- Panduit CAT 6 Jack – Black CJ688 TG BL
- Panduit CAT 6 Jack – Green CJ688 TG GR
- Panduit CAT 6 Jack – Orange CJ688 TG OR
- Panduit CAT 6 Jack – Red CJ688 TG RD
- Panduit Faceplate - 1 Outlet CFP1EIG
- Panduit Faceplate - 3 Outlet CFP13IG
- Panduit Faceplate - 4 Outlet CFP14IG

**FIBER OPTIC COMPONENTS**
- Corning Fiber Panel – MM (6-Strands) CCH-CP06-91
- Corning Fiber Panel – MM (12-Strands) CCH-CP12-91
- Unicam SC/MM Connectors 95-000-41
- Corning Fiber Panel – SM (6-Strands) CCH-CP06-59
- Corning Fiber Panel – SM (12-Strands) CCH-CP12-59
- Unicam SC/SM Connectors 95-200-41
- Corning LanScape Rack Mount Encl. CCH-02U

**TELEPHONE COPPER COMPONENTS**
- Panduit 48 Port Patch Panel DP48584TV25
- Siemens Split 66 Blocks S66-M1-50
- Mohawk Riser Rated ARMM Cable