

MORE TO CONSIDER

1. Telecommunications Infrastructure installed in a manner other than that shown in the Telecommunications Standards Document or otherwise approved in writing by ITS Telecommunications shall not be acceptable.

2. Use the AMP crimper/cutter tool when installing AMP Structured Cable.

3. When numbering, labeling or terminating Telecommunications Infrastructure always arrange all items in ascending numerical order.

4. Do not proceed with any telecommunications infrastructure installations without first reading the appropriate Division 27 Sections and Appendices.

5. Refer to Appendix B of the Cal Poly ITS Telecomm Telecommunications Standards Document for acceptable abbreviations when developing truncated cable identification nomenclature during testing.

6. Never plug Structured Cable directly into user equipment. Always use the correct Structured Cable "Demark".

7. Be sure to ask questions about anything that you are not sure of. If you do not ask questions it will be assumed that you understand the correct and expected methodology for performing all work. Work done incorrectly shall not be acceptable and shall be reworked at Contractor's expense.

8. The Cal Poly ITS Telecomm group is an entity separate from the Classroom Technology, though we are both part of Information Services, and report to the Chief Information Officer (CIO). Any work discussed in this document only relates to the ITS Telecomm portion of any project and our network support of Audio-Visual Cabling. Refer to Classroom Technologies' Standards Documents for information and direction regarding all other work in the area of Classroom Technology at <http://www.mds.calpoly.edu>.

9. When including RF technology in any project design, refer to the following documents for guidance:

Cal Poly University Airwaves Policy – http://www.netadmin.calpoly.edu/documentation/airwave_policy.pdf

Cal Poly University Two-Way Radio Frequency Coordination Standard – http://www.netadmin.calpoly.edu/documentation/Two_Way_Radio_Policy.pdf

Information Technology Resources Responsible Use Policy – <http://security.calpoly.edu/policies/rup/>

FCC Regulations – USC - Title 47 - part 90

Examples of Items Found in Appendix B



Figure 108: Two 4-port faceplates in the most common configurations found on campus. The upper label identifies the specific faceplate within a room. A number such as 204A-01 would mean, when entering room 204A, which is a room within room 204, starting on your left and going around the room, faceplate 204A-01 would be the first faceplate you should come to in that room. The lower label indicates the room number of the TR/ER that supports the jacks installed in the faceplate. The wiring connected to the rear of the connectors/jacks (see Figure #107) should have labels identifying which port they serve; "W" (upper left), "X" (upper right), "Y" (lower left) or "Z" (lower right).

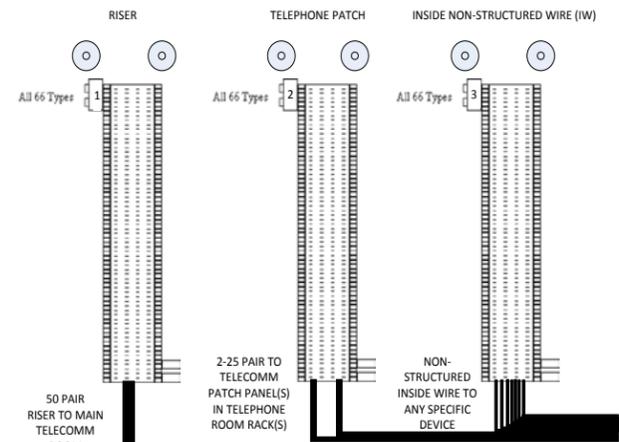


Figure 160: - Telecomm back board wiring methodology

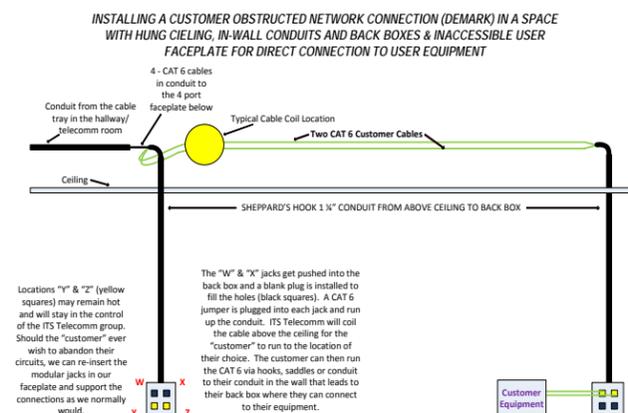


Figure 167:

Cal Poly ITS Telecommunications "CHEAT SHEET"

PREFACE:

The "Cheat Sheet" has been created for your convenience. It does not supplant the full Cal Poly Telecommunications Standards Document. Rather, it highlights the many specific areas in the IT/telecomm infrastructure construction/installation process that, in our experience, have proven to be misunderstood and have become chronic problems. Please be sure to read and understand all Division 27 sections, drawings and control documents that pertain to your project. Determining what project work shall be deemed complete and acceptable to the Cal Poly ITS Telecomm group shall be judged using all the documents that apply. Please know that we are here to help you successfully navigate through the many decisions that must be made when designing, constructing, managing and inspecting today's sophisticated infrastructure projects and facilities in light of the ever-changing array of applicable technologies.

PRINCIPLES OF TELECOMMUNICATIONS INFRASTRUCTURE DESIGN & IMPLEMENTATION:

Whether projects are as simple as individual "adds, moves and changes" or as complicated as an entirely new Student Housing Neighborhood, the ITS Telecomm group has been charged with assuring that the IT and Telecommunications infrastructure that is purchased and installed for Campus use is provided in a manner that delivers to the University, real long-term, cost-effective value. By establishing and memorializing the Cal Poly Telecommunications Infrastructure Standards in a succinct and complete document, we are able to provide clarity to University Personnel, Architects, Contractors, Project Managers and Inspectors as to the work product expected and required to meet the University's need for complete, flexible and supportable infrastructure in an ever-changing technological environment. The specific nature of the document is purposeful and in response to the increasing size and complexity of the Campus Telecommunications Infrastructure. It establishes all telecommunications infrastructure requirements in a way that can be serviced and updated, by a small group of highly trained individuals, at minimal cost to the University.

ITS Telecommunications has attempted to deal with every aspect of the campus telecommunications infrastructure in a sustainable manner. From the one-time efforts of design, construction and commissioning, to the multi-decade efforts of maintenance, support and modernization, the decisions memorialized in this document reflect a best value philosophy sculpted by many qualified individuals, representing decades of experience, who have been entrusted by the University to make the best choice decisions.

Technology infrastructure is dynamic and changes with discoveries. If it is determined that new and better solutions are available, we will make the appropriate changes to incorporate the new concepts or practices. As Cal Poly ITS Telecommunications is responsible for establishing and maintaining the best practices regarding the University's telecommunications infrastructure, Cal Poly ITS Telecommunications must be the final arbiters of what is appropriate and supportable.

http://afd.calpoly.edu/facilities/mapsplans/map/30x42_core.pdf - Campus Building Layout

http://afd.calpoly.edu/facilities/spacefacility/name_buildings.pdf - Building Names and Numbers

Contact the Cal Poly ITS Telecomm group before digging so we can identify any installed infrastructure at 765-7315

