

COMMONWEALTH OF PENNSYLVANIA

DEPARTMENT OF HUMAN SERVICES

INFORMATION TECHNOLOGY STANDARD

Name Of Standard: Cabling Specification Summary	Number: STD-ENSS010
Domain: Network	Category: Physical Media and Mechanisms / Cabling
Date Issued: 05/09/2001	Issued By Direction Of: 
Date Revised: 03/08/2016	Clifton Van Scyoc, Chief Technology Officer

Abstract:

The Department of Human Services (DHS) uses voice and data cable in the Telecommunications Equipment Room.

General:

The purpose of this document is to provide a summary of the specifications for voice and data cable installation for the Telecommunications Equipment Room at DHS.

Standard:

Telecommunications Equipment Room

- Centrally located in order to maintain the 100-meter rule.
- Minimum room size 8' x 10'.
- Maximum temperature 75 F.
- Six dedicated/isolated A/C power outlets (labeled accordingly).
- A duplex voice/data jack.
- The door will be equipped with a lockable passage set. **No other tenants may use or have access to this room.**

Patch Panel Requirements

- Standard size hinged 24-port panel.
- A minimum of 15% spare patch panel ports will be provided for growth. Wire management panels will be used to dress all cabling. Panels (rings, hooks) will be used between each 24-port unit as well as on the sides.

- Panels will be labeled with permanent mechanically/ electronically made markings.
- Voice patch panels will be mounted within a floor mounted rack.
- Data patch panels will be mounted within a floor mounted data rack.
- Spare patch cords will be supplied for voice and data panels. A minimum of 15%, the number of each spare cord length (3 ft., 5 ft., and 7 ft.) will reflect percentages of those used during the installation

Voice and Data Cable T56B Specifications

- All cable will be four pair, Category 5e compliant or better (Cat. 6, shielded).
- Voice and Data cable sheathing will be of a different color.

Voice and Data Jacks

- Jacks will be labeled with permanent mechanically/ electronically made markings.
- Single and/or duplex jacks will be labeled "voice" and/or "data", and include the port number, on a single faceplate.
- The inserts of the jacks will be color coded: blue for voice and orange for data.

Cable Record

- The Lessor will prepare a cable record, which will include a copy of the floor plan (showing jacks locations and numbering sequence) that coincides with the patch panel port labeling. A copy of the plan will be provided to the office manager at the time of final acceptance of the facility.

Cable Certification Testing

- All test results will be provided to the Telecommunication Office of Office Manager prior to or at the time of final acceptance of the facility.
- Test results will be in numerical sequence. Voice and Data will be under separate cover.
- At a minimum the test results for each jack must include the following:
 - Jack Number.
 - Cable Length.
 - Wire Map.
 - Attenuation.
 - NEXT (Near End Cross Talk).
 - Cable Impedance.

Exemptions from this Standard:

There will be no exemptions to this standard

Refresh Schedule:

All standards and referenced documentation identified in this standard will be subject to review and possible revision annually or upon request by the DHS Information Technology Standards Team.

Standard Revision Log:

Change Date	Version	Change Description	Author and Organization
05/09/2001	1.0	Initial Creation	Deloitte Consulting
08/14/2002	1.1	Edited style	Beverly Shultz
12/30/2004	1.2	Reviewed and updated	Jim Smith
02/10/2005	1.2	Reviewed	Doug Rutter
11/06/2006	1.2	Reviewed	Doug Rutter
12/06/2007	1.3	Reviewed, updated and edited style	Doug Rutter
06/28/2010	1.3	Reviewed	Doug Rutter
02/22/2011	1.3	Reviewed content – No changes	Doug Rutter
11/12/2013	1.3	Reviewed content – No changes	Matthew Messinger
3/20/15	1.4	Changed DPW to DHS	Bob Gordon, BIS-DTE
03/08/2016	1.5	Updated CTO's name	Aamir Qureshi, BIS-DTE