

**DIVISION OF FACILITIES DEVELOPMENT
MASTER SPECIFICATIONS/DESIGN GUIDELINES
DIVISION 27 – COMMUNICATIONS**

REVISION HISTORY

(09/03/24 Updates)

The following is provided as an aid to designers and contractors in understanding changes to DFD Master Specifications and Design Guidelines. Dates indicated are those on the initial page of each section. Miscellaneous grammatical and spelling corrections are not listed individually.

**COMMUNICATIONS STRUCTURED CABLING SYSTEM
STANDARDS & DESIGN GUIDELINES**

Latest version: 11/07/16.

No updates to this document. Future update planned.

SECTION 27 05 33.41 - RACEWAY AND BOXES FOR AUDIO-VIDEO SYSTEMS

03/01/22

No updates to this document.

SECTION 27 05 53 –IDENTIFICATION FOR COMMUNICATIONS SYSTEMS

09/03/24

(Replaces version dated 03/01/23)

- Modified content of article PATHWAYS to include reference to specification Section 26 05 53 – IDENTIFICATION FOR ELECTRICAL SYSTEMS.
- Clarified various editing instructions for labeling of Equipment Outlet and Termination Blocks.

SECTION 27 08 00 - COMMISSIONING OF COMMUNICATIONS

03/01/23

No updates to this document.

SECTION 27 08 00.41 - AV SYSTEMS COMMISSIONING

09/03/01

(Replaces version dated 03/01/23)

- Updated AV-specific references to include additional AVIXA standards.
- Updated “Technical Testing” editing instructions and various example content.

SECTION 27 10 00 - STRUCTURED CABLING

09/03/24

(Replaces version dated 03/01/23)

- Added to article “Mockups” to include additional items and to clarify coordination requirements.
- Clarified guidelines regarding electronic links to product or manufacturer website pages included in submittals.
- Added definition of “Loose Buffer” to be interpreted as a “Loose Tube” or “Ribbon” design.
- Removed references to “Power Sum Attenuation-to-Crosstalk Ratio (PSACR)” in Channel documentation and testing requirements.
- Modified PoE requirements for Security Cameras, Wireless Access Points and Digital Signage to support 802.3bt (PoE++); 90W.
- Modified fiber optic termination content to include the use of “Termination Cassettes”.
- Added content covering Fabric (Textile) Innerduct.
- Modified Fiber Optic test procedures to clarify set-up to include Refractive Index and for Pass/Fail Threshold for “Reflection”.
- Removed requirement for paper copy documents for DFD.

- Modified article “Record Drawings” to clarify formatting requirements.
- Miscellaneous formatting, terminology and grammatical changes.

SECTION 27 11 00 - COMMUNICATIONS EQUIPMENT ROOM FITTINGS

03/01/23

No updates to this document.

SECTION 27 11 13 - COMMUNICATIONS PROTECTION

09/03/24

(replaces version dated 03/01/21)

- Modified “DAS Application - Donor Antenna Down-lead” to refer to “Cellular DAS” Application. Emergency Responder Radio Coverage System content moved to Division 28.
- Miscellaneous formatting, terminology and grammatical changes.

SECTION 27 16 19 - COMMUNICATIONS PATCH CORDS, WORK AREA CORDS, AND CROSS-CONNECT WIRE

09/03/24

(Replaces version dated 3/01/23)

- Modified “Cords for Outdoor or “wet” locations” cable temperature range upper limit from “+70° C” to read “+60° C”.
- Modified PART 3 content METHOD OF DELIVERY for clarity.
- Miscellaneous formatting, terminology and grammatical changes.

SECTION 27 41 00 - AUDIO-VIDEO SYSTEMS

09/03/24

(Replaces version dated 03/01/23)

- Modified article SUBMITTALS to clarify drawing format requirements.
- Modified article EQUIPMENT CHANGES AND SUBSTITUTIONS for clarity.
- Added direction limiting use of trademarked cable designations such as “Digital Twisted Pair (DTP)”.
- Added direction to use the same terminology in specifications and on drawings to identify each product.
- Added editing instruction to consider cost of Power Control before including the feature in the AV system design.
- Modified article Assistive Listening System to include direction for item quantities.
- Miscellaneous formatting, terminology and grammatical changes.

SECTION 27 41 34 - WIDEBAND VIDEO DISTRIBUTION SYSTEM

09/03/24

(Replaces version dated 03/01/21)

- Modified various content to clarify requirements for Test Plan, Test Results, Documentation and Record Documents.

SECTION 27 51 26 – ASSISTIVE LISTENING SYSTEMS

03/01/21

No updates to this document.

SECTION 27 51 29 – TWO-WAY EMERGENCY COMMUNICATION SYSTEMS

09/03/24

(Replaces version dated 03/01/23)

- Modified article SCOPE to clarify requirement to identify monitoring locations.

*** END OF LIST ***