

DIVISION 27 – COMMUNICATIONS

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- 27 01 00 Operation and Maintenance of Communications Systems
- 27 01 10 Operation and Maintenance of Structured Cabling and Enclosures
- 27 01 20 Operation and Maintenance of Data Communications
- 27 01 30 Operation and Maintenance of Voice Communications
- 27 01 40 Operation and Maintenance of Audio-Video Communications
- 27 01 50 Operation and Maintenance of Distributed Communications and Monitoring
- 27 05 00 Common Work Results for Communications
- 27 05 13 Communications Services
- 27 05 13.13 Dialtone Services
- 27 05 13.23 T1 Services
- 27 05 13.33 DSL Services
- 27 05 13.43 Cable Services
- 27 05 13.53 Satellite Services
- 27 05 26 Grounding and Bonding for Communications Systems
- **27 05 28** Pathways for Communications Systems
- 27 05 28.29 Hangers and Supports for Communications Systems
- 27 05 28.33 Conduits and Backboxes for Communications Systems
- 27 05 28.36 Cable Trays for Communications Systems
- **27 05 28.39** Surface Raceways for Communications Systems
- 27 05 43 Underground Ducts and Raceways for Communications Systems
- **27 05 46** Utility Poles for Communications Systems
- 27 05 48 Vibration and Seismic Controls for Communications Systems
- 27 05 53 Identification for Communications Systems
- 27 06 00 Schedules for Communications
- 27 06 10 Schedules for Structured Cabling and Enclosures
- 27 06 20 Schedules for Data Communications
- 27 06 30 Schedules for Voice Communications
- 27 06 40 Schedules for Audio-Video Communications
- 27 06 50 Schedules for Distributed Communications and Monitoring
- 27 08 00 Commissioning of Communications



27 10 00 STRUCTURED CABLING

- 27 11 00 Communications Equipment Room Fittings
- 27 11 13 Communications Entrance Protection
- 27 11 16 Communications Cabinets, Racks, Frames and Enclosures
- 27 11 19 Communications Termination Blocks and Patch Panels
- **27 11 23** Communications Cable Management and Ladder Rack
- 27 11 26 Communications Rack Mounted Power Protection and Power Strips
- 27 13 00 Communications Backbone Cabling
- 27 13 13 Communications Copper Backbone Cabling
- 27 13 13.13 Communications Copper Cable Splicing and Terminations
- 27 13 23 Communications Optical Fiber Backbone Cabling
- 27 13 23.13 Communications Optical Fiber Splicing and Terminations
- 27 13 33 Communications Coaxial Backbone Cabling
- 27 13 33.13 Communications Coaxial Splicing and Terminations
- 27 13 43 Communications Services Cabling
- 27 13 43.13 Dialtone Services Cabling
- 27 13 43.23 T1 Services Cabling
- 27 13 43.33 DSL Services Cabling
- 27 13 43.43 Cable Services Cabling
- 27 13 43.53 Satellite Services Cabling
- 27 15 00 Communications Horizontal Cabling
- 27 15 00.16 Voice Communications Horizontal Cabling
- 27 15 00.19 Data Communications Horizontal Cabling
- 27 15 00.23 Audio-Video Communications Horizontal Cabling
- 27 15 00.39 Patient Monitoring and Telemetry Communications Horizontal Cabling
- 27 15 00.43 Nurse Call and Intercom Communications Horizontal Cabling
- **27 15 00.46** Paging Communications Horizontal Cabling
- **27 15 00.49** Intermediate Frequency/Radio Frequency Communications Horizontal Cabling
- 27 15 00.53 Antennas Communications Horizontal Cabling
- 27 15 13 Communications Copper Horizontal Cabling
- 27 15 23 Communications Optical Fiber Horizontal Cabling



- 27 15 33 Communications Coaxial Horizontal Cabling
- 27 15 43 Communications Faceplates and Connectors
- 27 16 00 Communications Connecting Cords, Devices and Adapters
- 27 16 13 Communications Custom Cable Assemblies
- 27 16 16 Communications Media Converters, Adapters, and Transceivers
- 27 16 19 Communications Patch Cords, Station Cords, and Cross Connect Wire
- 27 20 00 DATA COMMUNICATIONS
- 27 21 00 Data Communications Network Equipment
- **27 21 13** Data Communications Firewalls
- 27 21 16 Data Communications Routers, CSU/DSU, Multiplexers, Codec's, and Modems
- 27 21 26 Data Communications Network Management
- 27 21 29 Data Communications Switches and Hubs
- 27 21 33 Data Communications Wireless Access Points
- **27 22 00** Data Communications Hardware
- 27 22 13 Data Communications Mainframes
- 27 22 16 Data Communications Storage and Backup
- 27 22 19 Data Communications Servers
- **27 22 23** Data Communications Desktops
- 27 22 26 Data Communications Laptops
- 27 22 29 Data Communications Handhelds
- 27 24 00 Data Communications Peripheral Data Equipment
- 27 24 13 Printers
- 27 24 16 Scanners
- 27 24 19 External Drives
- 27 24 23 Audio-Video Devices
- 27 24 26 Virtual Reality Equipment
- 27 24 29 Disaster Recovery Equipment
- 27 25 00 Data Communications Software
- 27 25 13 Virus Protection Software
- 27 25 16 Application Suites
- 27 25 19 Email Software
- 27 25 23 Graphics/Multimedia Software



- 27 25 26 Customer Relationship Management Software
- 27 25 29 Operating System Software
- 27 25 33 Database Software
- 27 25 37 Virtual Private Network Software
- 27 25 39 Internet Conferencing Software
- 27 26 00 Data Communications Programming and Integration Services
- 27 26 13 Web Development
- 27 26 16 Database Development
- 27 26 19 Application Development
- 27 26 23 Network Integration Requirements
- 27 26 26 Data Communications Integration Requirements
- 27 30 00 VOICE COMMUNICATIONS
- 27 31 00 Voice Communications Switching and Routing Equipment
- 27 31 13 PBX/ Key Systems
- 27 31 23 Internet Protocol Voice Switches
- 27 32 00 Voice Communications Telephone Sets, Facsimiles and Modems
- 27 32 13 Telephone Sets
- 27 3216 Wireless Transceivers
- 27 32 23 Elevator Telephones
- 27 32 26 Ring-Down Emergency Telephones
- 27 32 29 Facsimiles and Modems
- 27 32 36 TTY Equipment
- 27 33 00 Voice Communications Messaging
- 27 33 16 Voice Mail and Auto Attendant
- **27 33 23** Interactive Voice Response
- 27 33 26 Facsimile Servers
- 27 34 00 Call Accounting
- 27 34 13 Toll Fraud Equipment and Software
- 27 34 16 Telemanagement Software
- 27 35 00 Call Management
- 27 35 13 Digital Voice Announcers
- 27 35 16 Automatic Call Distributors



- 27 35 19 Call Status and Management Displays
- 27 35 23 Dedicated 911 Systems
- 27 40 00 AUDIO-VIDEO COMMUNICATIONS
- 27 41 00 Audio-Video Systems
- 27 41 13 Architecturally Integrated Audio-Video Equipment
- 27 41 16 Integrated Audio-Video Systems and Equipment
- 27 41 16.25 Integrated Audio-Video Systems and Equipment for Restaurants and Bars
- 27 41 16.28 Integrated Audio-Video Systems and Equipment for Conference Rooms
- 27 41 16.29 Integrated Audio-Video Systems and Equipment for Board Rooms
- 27 41 16.51 Integrated Audio-Video Systems and Equipment for Classrooms
- 27 41 16.61 Integrated Audio-Video Systems and Equipment for Theaters
- 27 41 16.62 Integrated Audio-Video Systems and Equipment for Auditoriums
- 27 41 16.63 Integrated Audio-Video Systems and Equipment for Stadiums and Arenas
- **27 41 19** Portable Audio-Video Equipment
- 27 41 23 Audio-Video Accessories
- 27 42 00 Electronic Digital Systems
- 27 42 13 Point of Sale Systems
- 27 42 16 Transportation Information Display Systems
- 27 42 19 Public Information Systems
- 27 50 00 DISTRIBUTED COMMUNICATIONS AND MONITORING SYSTEMS
- 27 51 00 Distributed Audio-Video Communications Systems
- 27 51 13 Paging Systems
- 27 51 13.13 Overhead Paging Systems
- 27 51 16 Public Address and Mass Notification Systems
- 27 51 19 Sound Masking Systems
- 27 51 23 Intercommunications and Program Systems
- 27 51 23.20 Commercial Intercommunications and Program Systems
- 27 51 23.30 Residential Intercommunications and Program Systems
- **27 51 23.50** Educational Intercommunications and Program Systems
- 27 51 23.63 Detention Intercommunications and Program Systems
- **27 51 23.70** Healthcare Intercommunications and Program Systems
- 27 52 00 Healthcare Communications and Monitoring Systems



- 27 52 13 Patient Monitoring and Telemetry Systems
- 27 52 16 Telemedicine Systems
- 27 52 19 Healthcare Imaging Systems
- 27 52 23 Nurse Call/Code Blue Systems
- 27 53 00 Distributed Systems
- 27 53 13 Clock Systems
- 27 53 16 Infrared and Radio Frequency Tracking Systems
- 27 53 19 Internal Cellular, Paging, and Antenna Systems
- **27 60 00** Reserved
- **27 70 00** Reserved
- 27 80 00 Reserved
- **27 90 00** Reserved