

102.204 – LOW VOLTAGE ELECTRICAL GUIDELINE

PART 1 - INTRODUCTION

1.01 GENERAL

- A. This guideline establishes certain requirements regarding low voltage electrical systems, identifies the standards, and indicates general requirements for implementation.
- B. All references to “standard” herein shall pertain to “*Washington University School of Medicine, BJC and Telecommunications Facility Corporation Low Voltage Structured Wiring Standard*”
- C. The standard has been developed and is maintained by committee. This committee is a collaboration between TFC, Washington University School of Medicine and BJC HealthCare.
- D. The most current version of the standard applies, unless otherwise directed. The standard may be updated frequently. As a result, the standard is only available electronically and is not included in the printed version of this Manual of Practice. To obtain a copy of the current standard, download the electronic file or contact the BJC IS Project Manager.
- E. The standards include physical rooms and spaces, pathways, racks, conduit systems, cable trays, raceways, and any other physical system used to support or terminate low voltage cabling systems. This document provides an overall specification of cable types, services, and termination equipment. This document should be used solely for the purposes of planning and designing the appropriate telecommunication rooms, building entrance facilities, cable tray and raceways systems, and all conduits used for low voltage voice and data.

PART 2 - GUIDELINE

2.01 GENERAL

- A. For every project, electrical engineer shall confirm with the BJC Information System (IS) Project Manager the appropriate version of the standard that is to be followed.
- B. Any variance from the standard requires approval from the BJC IS Project Manager.

2.02 APPLICATION

- A. The standard applies to every facility and for all project types (hospital, ambulatory care, medical office, office, and structured/surface parking) unless otherwise directed by the BJC IS Project Manager.

2.03 CERTIFICATION

- A. Contractors must be certified per the requirements before bidding on TFC, BJC HealthCare and Washington University projects.
- B. Contractors engaged in installation of low voltage systems for BJC HealthCare must be prequalified and listed in the Toolbox. Washington University School of Medicine has prequalification requirements for low voltage contractors that may be different than those approved by BJC. Coordinate with the BJC HealthCare IS Project Manager and appropriate organization as required.

PART 3 - DOCUMENTATION

3.01 GENERAL

- A. None

PART 4 - SUPPORTING INFORMATION

4.01 GENERAL

- A. None

END OF DOCUMENT

RESPONSIBILITY MATRIX

The following matrix identifies those individuals, roles or departments responsible for maintaining the accuracy of the information and those responsible for providing input. Refer to Preface for detailed explanation.

| | BJC HealthCare | | | | | | | | | | | | Hospital/Entity | | | | | |
|----------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|--------------------------|---------------------------------|--------------------------|--------------------------|--------------------------|---------------------------|-------------------------------------|--------------------------|----------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| | PD&C | | | | | | Clinical Asset Management (CAM) | Risk Management | Real Estate | Ergonomics | Infection Prevention (IP) | Info Systems, Data, Telecom (IS) | Other: | Standards Review Committee | Facilities Engineering | Housekeeping | Security | Other: |
| | Corporate Architect | Corporate Engineer | Director of Planning | Director of Design | Director of Construction | Other: | | | | | | | | | | | | |
| Primary Authorship | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Secondary Authorship | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

DOCUMENT REVISION HISTORY

The following table indicates the date the document originated and any subsequent revisions.

| Section 102.204 – Low Voltage Electrical Guideline | | |
|--|-------------------------|-------------|
| Issue | Description of Issue | Prepared by |
| 2014 v1 | Original Issue | G. Zipfel |
| 2016 v1 | reissued | G. Zipfel |
| 2018 v1 | Revised and reorganized | G. Zipfel |
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