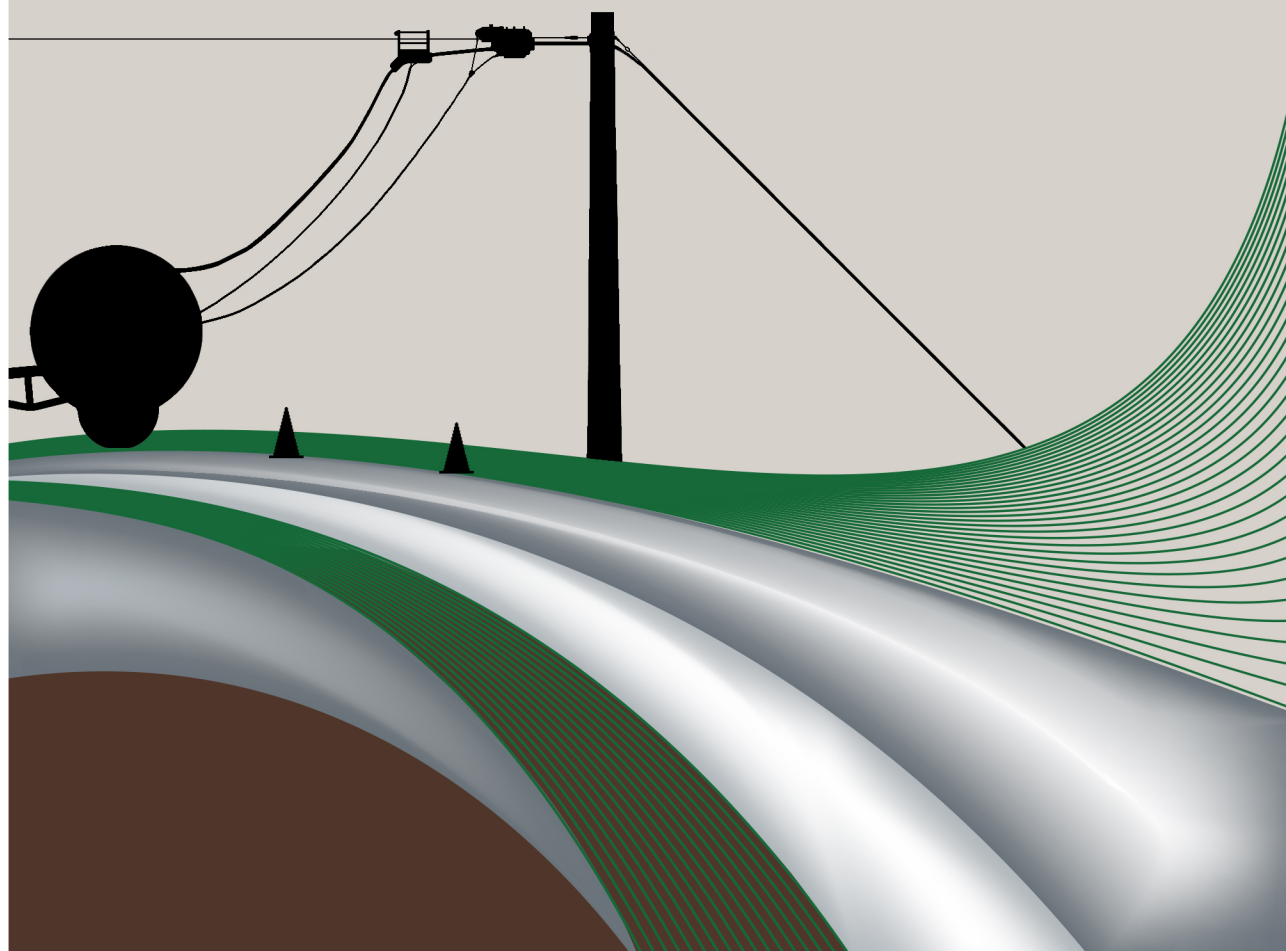


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**ICT Outside Plant Construction and
Installation: Aerial Cable Installation**



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Preface

Revision History

April 22, 2022 First publication of this standard, titled BICSI G2.2-22, *ICT Outside Plant Construction and Installation: Aerial Cable Installation*

Translation Notice

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1 Introduction

1.1 Purpose

This standard is written to provide a common methodology for the installation and implementation of telecommunication and data cabling, with aerial pathways used within the outside plant (OSP) environment, for varying applications, jurisdictions and projects.

This standard is intended primarily for, but not limited to:

- OSP cable installers
- OSP project designers and managers
- Construction and installation entities performing aerial OSP cable and pathway activities
- Authorities having jurisdiction (AHJ)

1.1 Categories of Criteria

Two categories of criteria are specified – mandatory and advisory.

- Mandatory criteria generally apply to protection, performance, administration, and compatibility; they specify the absolute minimum acceptable requirements.
- Advisory or desirable criteria are presented when their attainment will enhance the general performance of the component, system, or other element as indicated within all its contemplated applications.

Mandatory requirements are designated by the word *shall*; advisory recommendations are designated by the words *should*, *may*, or *desirable*, which are used interchangeably in this standard. While requirements and recommendations are typically separated to assist in usability, paragraphs or sections may exist where both appear together for context or readability.

Where equivalent local codes and standards exist, requirements from these local specifications shall apply. Where reference is made to a requirement that exceeds minimum code requirements, the specification requirement shall take precedence over any apparent conflict with applicable codes.

2 Scope

This standard applies to the installation of telecommunication cable within aerial pathways. The methods within are written for balanced twisted-pair, optical fiber media, and coaxial cables, including installation methods for poles, supports/arms and lashing of cables within the aerial pathway.

The material found within this standard may not cover all requirements specific to the site or project requirements. Additionally, specific items not covered within this standard include:

- Electrical cabling installation
- Maintenance, decommissioning or removal of aerial cabling and its associated pathways
- Installation of electrical protection systems (e.g., copper cable protection terminals and devices)

NOTE: The following illustrated recommendations and methodologies for installation and placement of strand (messenger), lashed cable, and self-supporting cable are typical of those used in outside plant construction and installation projects, but do not cover every possible situation that may be encountered. Therefore, outside plant construction and installation personnel should always adhere to the information shown on the construction documents and obtain confirmation/guidance from the engineer and/or client in the event differing site conditions occur or clarification is required.

NOTICE: This standard does not purport to address all safety issues associated with its use. It is the responsibility of the users of this standard to establish appropriate safety and health practices and determine the applicability of regulatory or other limitations prior to use.