UL 2024

STANDARD FOR SAFETY

Cable Routing Assemblies and Communications Raceways

UL Standard for Safety for Cable Routing Assemblies and Communications Raceways, UL 2024

Sixth Edition, Dated November 9, 2026

SUMMARY OF TOPICS

This new Sixth Edition of ANSI/UL 2024 dated November 9, 2026 includes the following changes:

- ***Incorporating Inclusive Language into UL 2024; and***
- ***Editorial revisions in accordance with the ULSE Style Manual.***

Text that has been changed in any manner or impacted by UL's electronic publishing system is marked with a vertical line in the margin.

The revised requirements are substantially in accordance with Proposal(s) on this subject dated July 24, 2026.

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Standard For Cable Routing Assemblies and Communications Raceways

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Fifth Edition – March, 2014

Sixth Edition

November 9, 2026

This ANSI/UL Standard for Safety consists of the Sixth Edition.

The most recent designation of ANSI/UL 2024 as an American National Standard (ANSI) occurred on November 9, 2026. ANSI approval for a standard does not include the Cover Page, Transmittal Pages, and Title Page.

Comments or proposals for revisions on any part of the Standard may be submitted to UL at any time. Proposals should be submitted via a Proposal Request in UL's On-Line Collaborative Standards Development System (CSDS) at https://csds.ul.com.

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INTRODUCTION

1 Scope

1.1 These requirements cover cable routing assemblies and fittings and communications raceways and fittings in accordance with the NFPA 70®, *National Electrical Code*® (NEC®), NFPA 76, Standard for the Fire Protection of Telecommunications Facilities, and NFPA 90A, Standard for the Installation of Air-Conditioning and Ventilating Systems:

a) Plenum – Evaluated for installation in other spaces used for environmental air in accordance with the NFPA 70®, *National Electrical Code*® (NEC®), ceiling cavity plenums and raised floor plenums in accordance with NFPA 76 and NFPA 90A as well as riser and general purpose applications,

b) Riser – Evaluated for installation in risers in accordance with the NFPA 70®, *National Electrical Code*® (NEC®) and NFPA 76 as well as general purpose applications; and

c) General Use – Evaluated for general purpose applications only in accordance with the NFPA 70®, *National Electrical Code*® (NEC®) and NFPA 76.

2 Units of Measurement

2.1 Values stated without parentheses are the requirement. Values in parentheses are explanatory or approximate information.

3 Referenced Publications

3.1 Any undated reference to a code or standard appearing in the requirements of this standard shall be interpreted as referring to the latest edition of that code or standard.

3.2 The following publications are referenced in this Standard:

NFPA 262, *Standard Method of Test for Flame Travel and Smoke of Wires and Cables for Use in Air-Handling Spaces*

NFPA 70® *National Electrical Code*® (NEC®)

NFPA 76, *Standard for the Fire Protection of Telecommunications Facilities*

NFPA 90A, *Standard for the Installation of Air-Conditioning and Ventilating Systems*

UL 1666, *Standard for Test for Flame Propagation Height of Electrical and Optical-Fiber Cables Installed Vertically in Shafts*

UL 723, *Standard for Test for Surface Burning Characteristics of Building Materials*

UL 746A, *Standard for Polymeric Materials – Short Term Property Evaluations*

4 Glossary

4.1 For the purpose of this Standard the following definitions apply:

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4.2 CABLE ROUTING ASSEMBLY – A single channel or connected multiple channels, as well as associated fittings, forming a structural system that is used to support and route communications wires and cables, optical fiber cables, data cables associated with information technology and communications equipment, Class 2, Class 3, Class 4, and Type PLTC cables, and power-limited fire alarm cables in plenum, riser, and general-purpose applications.

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4.3 COMMUNICATIONS RACEWAY (Raceway, Communications) – An enclosed channel of nonmetallic materials designed expressly for holding communications wires and plenum, riser, and general-purpose limited-energy cables.

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4.4 RACEWAY – An enclosed channel designed expressly for holding wires, cables, or busbars, with additional functions as permitted in the National Electrical Code.

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4.5 VISUAL INSPECTION – An inspection which identifies, without the use of equipment or tools, those defects which will be apparent to the eye.

CONSTRUCTION

5 General

5.1 The interior surfaces of signaling optical fiber raceways and communications raceways and cable routing assemblies shall be free from burrs and sharp edges that can damage cables. Compliance is to be determined by visual examination of the interior surfaces.

5.2 The distinguishing feature between raceways and cable routing assemblies is that raceways are enclosed and cable routing assemblies may or may not include enclosed sections. See 6.1.

6 Raceway System

6.1 A raceway system shall enclose the cables installed therein and, when installed as intended, shall comply with the following:

a) There shall not be any openings that permit the probe illustrated in Figure 6.1 to be inserted for a distance greater than 1/8 inch (3.2 mm); and

b) The total area of openings shall not exceed 15 % of the area of the surface in which the openings are located.

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