

ENDOT INDUSTRIES

DUCT AND INNERDUCT

Selecting Innerduct for Indoor Applications

Raceways and Innerduct are terms that refer to flexible tubing, usually corrugated. The terms raceway and innerduct are often used interchangeably in the data communications industry.

The National Electrical Code, refers to "Listing Requirements of Listed Optical Fiber Cables and Raceways" in Article 725, 770, 800 and 820. In this section two types of raceway are defined, **Plenum** and **Riser**. Specific tests are described and Underwriters Laboratories (UL) has in place standards and test procedures for evaluating products to assure that they meet these requirements.

For areas other than Plenum and Riser spaces in a building the NEC is less clear. NEC does not provide any specific testing requirements or standards, but states that any product used in a building should be "RESISTANT TO SPREAD OF FIRE." This places the decision with the local code official as to what may or may not be acceptable in non-plenum and non-riser locations.

In Plenum and Riser locations contractors and installers should only use products that have been tested and Listed by UL for Plenum and Riser locations in a building. Use of a product that is not UL Listed could result in Code violations and the need to remove and replace unlisted raceways.

Due to the lack of defined test standards in NEC, there are no UL Listed products for locations that are not classified as plenum or riser within a building. Products tested to a more stringent standard can be used in areas where requirements are less stringent. It is suggested that UL Listed Riser Raceway be used in locations other than Plenum and Riser (check with local code officials before installation).

The Substitution Chart below demonstrates what products can be used in various spaces inside a building:

UL LISTED USE	NEC SUGGEST PRODUCT	RACEWAY SUBSTITUTION
Plenum Air Spaces	UL Listed Plenum Raceway	None
Vertical Riser Shafts	UL Listed Riser Raceway	UL Listed Plenum Raceway
Locations other than Plenums and Risers	No products are defined	UL Listed Plenum or Riser Raceways*

*With local code approval

There is no UL or NEC standard that states the color of the various raceways in buildings. Color is the option of the manufacturer and end user to select what best suits their needs. Endot produces Plenum and Riser in both white and orange colors.



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