N TABLE 770.154(a) Applications of Listed Optical Fiber Cables in Buildings

			Listed Optical Fiber		
		Cable Type			
Арр	lications	OFNP, OFCP	OFNR, OFCR	OFNG, OFCG, OFN, OFC	
In ducts specifically fabricated for environmental air as described in 300.22(B)	In fabricated ducts	Y*	N	N	
	In metal raceway that complies with 300.22(B)	Y*	Y*	Y*	
In other spaces used for environmental air (plenums) as described in 300.22(C)	In other spaces used for environmental air	Y*	N	N	
	In metal raceway that complies with 300.22(C)	Y*	Y*	Y*	
	In plenum communications raceways	Y*	N	N	
	In plenum cable routing assemblies	Y*	N	N	
	Supported by open metal cable trays	Y*	N	N	
	Supported by solid bottom metal cable trays with solid metal covers	Y*	Y*	Y*	
In risers	In vertical runs	Y*	Y*	N	
	In metal raceways	Y*	Y*	Y*	
	In fireproof shafts	Y*	Y*	Y*	
	In plenum communications raceways	Y*	Y*	N	
	In plenum cable routing assemblies	Y*	Y*	N	
	In riser communications raceways	Y*	Y*	N	
	In riser cable routing assemblies	Y*	Y*	N	
	In one- and two-family dwellings	Y*	Y*	Y*	
Within buildings in other than air-handling spaces and risers	General	Y*	Y*	Y*	
	Supported by cable trays	Y*	Y*	Y*	
	In distributing frames and cross-connect arrays	Y*	Y*	Y*	
	In any raceway recognized in Chapter 3	Y*	Y*	Y*	
	In plenum communications raceway	Y*	Y*	Y*	
	In plenum cable routing assemblies	Y*	Y*	Y*	
	In riser communications raceways	Y*	Y*	Y*	
	In riser cable routing assemblies	Y*	Y*	Y*	
	In general-purpose communications raceways	Y*	Y*	Y*	
	In general-purpose cable routing assemblies	Y*	Y*	Y*	

Note: "N" indicates that the cable type shall not be permitted to be installed in the application. "Y*" indicates that the cable type shall be permitted to be installed in the application subject to the limitations described in 770.110 and 770.113.

Informational Note No. 1: Part V of Article 770 covers installation methods within buildings. This table covers the applications of listed optical fiber cables in buildings. The definition of *Point of Entrance* is in 770.2.

Informational Note No. 2: For information on the restrictions to the installation of optical fiber cables in ducts specifically fabricated for environmental air, see 770.113(B).

N TABLE 770.154(b) Cable Substitutions

Cable Type	Permitted Substitutions	
OFNP	None	
OFCP	OFNP	
OFNR	OFNP	
OFCR	OFNP, OFCP, OFNR	
OFNG, OFN	OFNP, OFNR	
OFCG, OFC	OFNP, OFCP, OFNR, OFCR, OFNG, OFN	

Informational Note: See ANSI/UL 1666-2017, Standard Test for Flame Propagation Height of Electrical and Optical-Fiber Cable Installed Vertically in Shafts, for one method of defining fire-resistant characteristics capable of preventing the carrying of fire from floor to floor.

Δ (C) Types OFNG and OFCG. Types OFNG and OFCG nonconductive and conductive general-purpose optical fiber cables shall be suitable for general-purpose use, with the exception of risers and plenums, and shall also be resistant to the spread of fire.