

Quantity

12,000 Feet
2 – 6000 ft reels

Material

**Optical Cable Corporation (OCC) 24 Channel Dx-Series
Distribution Chemical Resistant, Plenum Rated Cables**

Fiber Optic Cables should meet the functional requirements of the following standards:

- UL 1651
- ANSI/NFPA 262
- GR-409-CORE
- ICEA-S-104-696
- ICEA-S-83-596
- TIA-568
- TIA-598
- UL-Listed type OFNP in accordance with NED sections 770-179 (A) and 770-154 (A) for use in ducts, plenums, and air-handling spaces. Meets or exceeds requirements for intra-building fiber optic cables as outlined in GR-409-CORE.

Applications:

- Used in trunking, LAN and distribution applications where small size, lightweight, and versatile installation capability are required for ducts, plenums, and air handling spaces
- Ideal configuration for a single termination point requiring multiple fibers
- Indoor/Outdoor plenum cables eliminate the need for costly cable transitions in different installation environments

Laser Ultra-Fox™ Fiber Performance	
Fiber Code	SLX
Industry Standard Designation	Low Water Peak Single-Mode ITU-T G.652.D
Core/Cladding Diameter (μm)	9/125
Wavelength (nm)	1310/1550
Maximum Cabled Attenuation (dB/km)	0.5/0.5
Primary Coating Diameter (μm)	245
Secondary Buffer Diameter (μm)	900

Zero Dispersion Slope (ps/nm ² -km)	0.092
Proof Test Level (kpsi)	100

Installation and Operating Characteristics		
	Installation	Operating
Max Tensile Load	3,000 N (670 lbs)	1,000 N (220 lbs)
Min Bend Radius	11.8 cm (4.6 in)	11.8 cm (4.6 in)

Mechanical and Environmental	
Impact Resistance EIA/TIA-455-25A	1000 impacts (EIA/TIA-455-25A)
Crush Resistance TIA/EIA-455-41A	1500 N/cm (TIA/EIA-455-41A)
Flex Resistance	1000 cycles (TIA/EIA-455-104A)
Operating Temperature	-40°C to +85°C
Storage Temperature	-40°C to +85°C
Installation Temperature (actual temp. of cable)	0°C to +60°C
Flame Retardancy	UL Listed Type OFNP (ANSI/NFPA 262) and FT6 (CSA C22.2 No. 232)

Cable Characteristics	
Jacket Color	
Jacket Material	Fluoropolymer
Buffer Material	Soft Plenum
Cable Weight	71 kg/km (46 lbs/1000')
Cable Diameter	8.3 mm (0.33 in)

**1" Smoothwall Innerduct (orange, black & green) 84" Steel Reels
Containing 2500 feet orange, 2500 feet black, 2500 feet green**

I. Applicable Standards - Materials

ASTM D3350 Cell Classification	345440A ¹
ASTM D1505 Density	0.946 g/cc
ASTM D1238 Melt Index	0.252 g/10 min.
ASTM D638 Tensile Strength	>3600 PSI
ASTM D638 Elongation	>800%
ASTM D1693 Environmental Stress Cracking Resistance	>600 hours
Test Condition C	
ASTM D790 Flexural Modulus	110,000 PSI (min. 758 MPa)
ASTM D746 Brittleness Temp.	-180°F
ASTM D149 Dielectric Breakdown Voltage	<18 V/micron
ASTM D1894 Kinetic Co-efficient of Friction	0.025
Melt Point Min	260°F

II. Dimensions

ASTM F2160 (formerly D3035) – <u>SDR 13.5</u> - Nominal 1" ID	
Average Inside Diameter	1.121 Inches
Min. Wall Thickness	0.120 Inches
Nominal OD	1.315 Inches (33.4 mm)

Note: Equivalent items will be considered.