

**Part #: DX012**

**12 CHANNEL  
D-Series Distribution Riser Rated Cables**

Laser Ultra-Fox™ Fiber Performance	
Industry Standard Designation	Maximum Cabled Attenuation (dB/km)
Core/Cladding Diameter (µm)	Minimum Laser EMB Bandwidth (MHz-km)
Numeric Aperture	Minimum OFL LED Bandwidth (MHz-km)
Proof Test Level (kpsi)	100

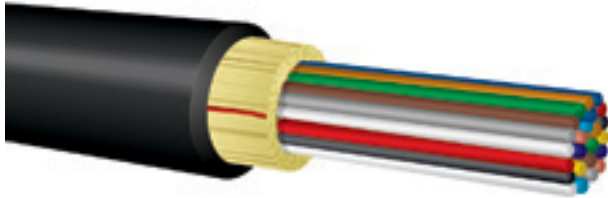
Installation and Operating Characteristics		
	Installation	Operating
Max Tensile Load	2,700 N (600 lbs)	600 N (135 lbs)
Min Bend Radius	9.8 cm (3.9 in)	6.5 cm (2.6 in)

Mechanical and Environmental	
Impact Resistance EIA/TIA-455-25A	1,500 Impacts
Crush Resistance TIA/EIA-455-41A	1,800 N/cm
Flex Resistance	2,000 cycles
Operating Temperature	-40°C to +85°C
Storage Temperature	-55°C to +85°C
Installation Temperature (actual temp. of cable)	-10°C to +60°C
Flame Retardancy	UL Listed Type OFNR (UL 1666) and FT4 (CSA C22.2 No. 232)

Cable Characteristics	
Jacket Color	
Jacket Material	
Buffer Material	PVC
Cable Weight	38 kg/km (25 lbs/1000')
Cable Diameter	6.5 mm ( 0.26 in)

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### Standards

Optical Cable Corporation's indoor/outdoor tight-buffered fiber optic cables meet the functional requirements of the following standards:

- UL 1651
- UL 1666
- GR-409-CORE
- ICEA-S-104-696
- ICEA-S-83-596
- TIA-568
- TIA-598
- UL-listed type OFNR in accordance with NEC sections 770-179 (B) and 770-154 (B) for use in vertical runs in building riser shafts or from floor to floor. Meets or exceeds requirements for intra-building fiber optic cables as outlined in GR-409-CORE.

### Applications:

- Indoor/outdoor tight-bound tight-buffered design allows cables to be installed in intra-building backbone and inter-building campus locations without costly transitions between cable types
- Ideal configuration for a single termination point requiring multiple fibers

### Cost Savings:

- 900 micron buffer eliminates the need for costly and time-consuming installation of fanout kits or pigtail splices because connectors terminate directly to the fiber
- No need to splice outdoor cable to indoor cable at building entrance
- High crush resistance may eliminate the need for innerduct

### Features:

- High performance components and construction
- Cable materials are indoor/outdoor - UL-listed OFNR and UV, water and fungus resistant
- UL Listed in accordance with NEC section 770.179(b) for use in vertical runs in building riser shafts or from floor to floor
- Wide operating temperature range of -40°C to +85°C
- Helically stranded core for greater flexibility and mechanical protection of the optical fibers
- High strength-to-weight ratio
- 2-144 fiber configuration is smaller and lighter than comparable sub-grouped cables made by others: ideal for installation in areas with limited space or tight bends
- Can be armored for additional protection in direct burial and aerial installations
- Interlocking armor can be applied to cables as an alternative to conduit installation