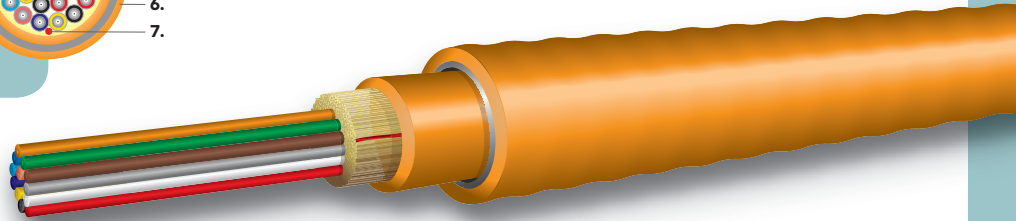
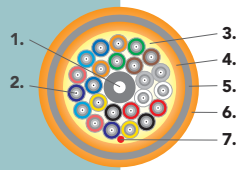


## (3.2e) D-Series Distribution – Interlocking Armor (ILA) Plenum Rated Cables



1. Central Filler/Strength Member
2. Tight-Buffer Optical Fiber
3. Aramid Strength Member
4. Inner Jacket
5. Aluminum Interlocking Armor
6. Outer Jacket
7. Ripcord

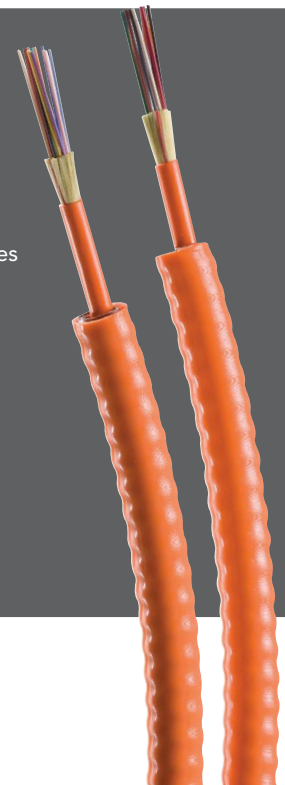


### Applications

- Ideal for industrial and other installations requiring a metallic conduit
- Interlocking preloaded armor may eliminate the need for conduit, reducing installation costs

### Features

- UL listed in accordance with NEC section 770.179(a) for use in ducts, plenums and air-handling spaces
- Aluminum interlocking armor with flexible plenum (S) or fluoropolymer (K) overjacket
- Greater flexibility than standard corrugated steel-armored (CST) cables
- Interlocking armor can be easily removed, leaving an intact inner plenum rated cable for installation into plenums and air-handling spaces
- Wide operating temperature of -40°C to +85°C for indoor/outdoor (K Jacket)



### Mechanical and Environmental Performance

	INDOOR/OUTDOOR (K)	INDOOR (S)
	PVDF Plenum	Soft Plenum
Jacket type	K	S
Operating temperature	-40°C to +85°C	0°C to +70°C
Storage temperature	-40°C to +85°C	-40°C to +70°C
Installation temperature (cable temp.)	0°C to +60°C	0°C to +60°C
Flame retardancy	UL listed type OFCP (ANSI/NFPA 262) and FT6 (CSA C22.2 No. 232)	UL listed type OFCP (ANSI/NFPA 262) and FT6 (CSA C22.2 No. 232)
Impact resistance (EIA/TIA-455-25A)	20 impacts	20 impacts
Crush resistance (TIA/EIA-455-41A)	650 N/cm	650 N/cm
Flex cycles (TIA/EIA-455-104A)	25	25

### Applicable Standards

OCC indoor/outdoor tight-buffered fiber optic cables meet the functional requirements of the following standards:

- ANSI/NFPA 262
- ICEA-S-83-596
- UL 1651

**(3.2e) D-Series Distribution – Interlocking Armor (ILA) Plenum Rated Cables**

## Cable Characteristics: D-Series Distribution Interlocking Armor (ILA) Plenum Cables (Indoor/Outdoor "K" Jacket)

FIBER COUNT	DIAMETER MM (IN)	WEIGHT KG/KM (LBS/1,000')	TENSILE LOAD		MINIMUM BEND RADIUS	
			INSTALLATION N (LBS)	OPERATIONAL N (LBS)	INSTALLATION CM (IN)	LONG-TERM CM (IN)
2	13.1 (0.52)	175 (118)	1,350 (300)	400 (90)	26.2 (10.3)	19.7 (7.8)
4	13.1 (0.52)	175 (118)	1,350 (300)	400 (90)	26.2 (10.3)	19.7 (7.8)
6	13.1 (0.52)	175 (118)	1,350 (300)	400 (90)	26.2 (10.3)	19.7 (7.8)
8	13.1 (0.52)	179 (120)	1,350 (300)	400 (90)	26.2 (10.3)	19.7 (7.8)
12	14.1 (0.56)	209 (140)	1,350 (300)	400 (90)	28.2 (11.1)	21.2 (8.3)
18	14.1 (0.56)	209 (140)	1,350 (300)	400 (90)	28.2 (11.1)	21.2 (8.3)
24	16.1 (0.63)	264 (177)	1,350 (300)	400 (90)	32.2 (12.7)	24.2 (9.5)
36	16.1 (0.63)	273 (183)	1,350 (300)	400 (90)	32.2 (12.7)	24.2 (9.5)
48	17.7 (0.70)	320 (215)	1,350 (300)	400 (90)	35.4 (13.9)	26.6 (10.5)

## D-Series Distribution Interlocking Armor (ILA) Plenum Cables (Indoor "S" Jacket)

FIBER COUNT	DIAMETER MM (IN)	WEIGHT KG/KM (LBS/1,000')	TENSILE LOAD		MINIMUM BEND RADIUS	
			INSTALLATION N (LBS)	OPERATIONAL N (LBS)	INSTALLATION CM (IN)	LONG-TERM CM (IN)
2	11.8 (0.46)	123 (83)	1,350 (300)	400 (90)	23.6 (9.3)	17.7 (7.0)
4	11.8 (0.46)	123 (83)	1,350 (300)	400 (90)	23.6 (9.3)	17.7 (7.0)
6	11.8 (0.46)	123 (83)	1,350 (300)	400 (90)	23.6 (9.3)	17.7 (7.0)
8	11.8 (0.46)	137 (92)	1,350 (300)	400 (90)	23.6 (9.3)	17.7 (7.0)
12	12.8 (0.50)	161 (108)	1,350 (300)	400 (90)	25.6 (10.1)	19.2 (7.6)

## Ordering Information

	<b>D</b>	<b>X</b>							<b>9</b>		<b>P</b>			
Digit No:	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	1 – 2	Distribution Series Ultra-Fox = <b>DX</b>												
	3 – 5	Fiber count: (see cable characteristics chart) S Jacket = <b>002-012</b> K Jacket = <b>002-048</b>												
	6	Jacket type: Indoor/Outdoor Fluoropolymer = <b>K</b> ; Indoor Plenum = <b>S</b>												
	7 – 9	Fiber type: (see Laser Ultra-Fox Fiber Performance Table, p. 23)												
	10	Ultra-Fox fiber with 900µm tight-buffer = <b>9</b>												
	11	Standard jacket color: 62.5µm multimode (WLS, WLX) – Orange = <b>O</b> 50µm multimode (ALS, ALX) – Orange = <b>O</b> 50µm 10 Gigabit (ALT, ALE) – Aqua = <b>Q</b> Single-mode – Yellow = <b>Y</b>												
	12	Rating: Plenum = <b>P</b>												
	13 – 14	Indoor/Outdoor Interlocking Armor = <b>I6</b> ; Indoor Interlocking Armor = <b>I7</b>												

**Example:** 12-fiber distribution cable using 62.5µm standard Laser Ultra-Fox fiber, indoor/outdoor interlocking armor, orange jacket, printed in feet –

**D X 0 1 2 K W L S 9 O P I 6**