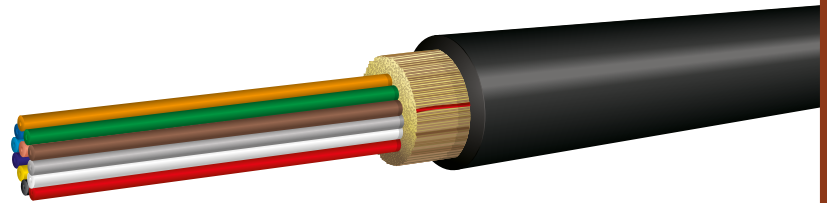


## (5.5a) D-Series Distribution LSZH ABS-Approved Cables



1. Central Filler/Strength Member
2. Tight-Buffer Optical Fiber
3. Aramid Strength Member
4. Outer Jacket
5. Ripcord



### Applications

- Approved by the American Bureau of Shipping (ABS)
- Marine and offshore tight-buffered cable design for use in installations requiring a flame-retardant, low-smoke and zero-halogen cable intended for single point terminations
- Can be used in applications requiring ABS-approved fiber optic cables

### Features

- Zero-halogen construction meets IEC 60754-2
- Meets low-smoke requirements of UL 1685 and IEC 61034-2
- Flame-retardant per the requirements of IEC 60332-3-24
- UL listed OFN-LS
- ABS-approved for 2007 Steel Vessels Rules 1-1-4/7.7, 4-8-3/9.13
- ABS-approved for 2006 MODU Rules 4-3-4/13.1.6
- Suitable for indoor or outdoor applications
- Jacket is UV, fungus and moisture resistant
- Round cable construction for easy handling and termination
- Includes ripcord for easy outer jacket removal
- Rugged distribution-style cable with 2 to 24 for deck applications
- Optical fiber types include 62.5/125, 50/125, and single-mode
- Available with 500µm primary acrylate-coated fiber for maximum mechanical and environmental protection of the optical fiber



### Applicable Standards

OCC D-Series Distribution Low-Smoke Zero-Halogen ABS-Approved Cable meet or exceed the functional requirements of the following standards:

- IEC 60332-3-24
- IEC 60754-2
- IEC 61034-2
- UL 1685
- ICEA-S-104-696
- MIL-C-24643
- TIA-568
- TIA-598
- ABS Steel Vessels and MODU Rules

### Mechanical and Environmental Performance

Operating temperature	-40°C to +70°C
Storage temperature	-40°C to +70°C
Installation temperature (cable temp.)	-20°C to +60°C
Flame retardancy	IEC 60332-3-24; UL listed OFN-LS (UL 1685) ABS type approved 07-HS274922
Zero-halogen	IEC 60754-2
Smoke generation	IEC 61034-2
Crush resistance (TIA-455-41)	1,800 N/cm
Flex resistance (TIA-455-104)	2,000 cycles



**(5.5a) D-Series Distribution LSZH ABS-Approved Cables**

## Cable Characteristics: D-Series Distribution LSZH ABS-Approved Cables

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	5.4 (0.21)	30 (20)	1,400 (310)	450 (100)	8.1 (3.2)	5.4 (2.1)
4	5.6 (0.22)	32 (22)	1,400 (310)	450 (100)	8.4 (3.3)	5.6 (2.2)
6	5.9 (0.23)	37 (25)	1,400 (310)	450 (100)	8.9 (3.5)	5.9 (2.3)
8	6.4 (0.25)	43 (29)	1,600 (360)	525 (120)	9.6 (3.8)	6.4 (2.5)
10	6.9 (0.27)	56 (38)	1,800 (400)	600 (135)	10.4 (4.1)	6.9 (2.7)
12	7.6 (0.30)	61 (41)	2,700 (600)	600 (135)	11.4 (4.5)	7.6 (3.0)
18	7.5 (0.30)	59 (40)	2,700 (600)	700 (160)	11.3 (4.4)	7.5 (3.0)
24	9.1 (0.36)	92 (62)	3,000 (670)	1,000 (220)	13.7 (5.4)	9.1 (3.6)

Installation loads in excess of 2,700 N (600 lbs.) are not recommended.

### Ordering Information

	<b>D</b>					<b>Z</b>				<b>9</b>	<b>K</b>	<b>E</b>	<b>-</b>		<b>A</b>	<b>B</b>	<b>S</b>	
<b>Digit No:</b>	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
	1	Distribution Series = <b>D</b>																
	2	Ultra-Fox = <b>X</b>																
		Ultra-Fox Plus Fiber = <b>-</b>																
	3-5	Fiber count: <b>002-024</b>																
	6	Jacket type: Low-Smoke Zero-Halogen Jacket = <b>Z</b>																
	7-9	Fiber type: (see Laser Ultra-Fox or Ultra-Fox Plus Fiber Performance Table, pg. 206-207)																
	10	Ultra-Fox fiber with 900µm tight-buffer = <b>9</b> ; Ultra-Fox Plus 900µm tight-buffer = <b>5</b>																
	11	Jacket color: Black = <b>K</b>																
	12	Rating: Flame-Retardant, Low-Smoke Zero-Halogen = <b>E</b>																
	14	Print in feet marks = <b>F</b> ; Print in meter marks = <b>M</b>																
	15-17	ABS-approved version = <b>ABS</b>																

**Example:** 12-fiber ABS-approved low-smoke zero-halogen, distribution cable using OM3 laser optimized bend-insensitive fiber, Ultra-Fox, black jacket printed in feet

**D X 0 1 2 Z A L T 9 K E - F A B S**