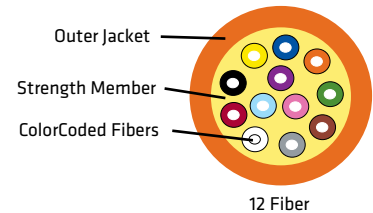




## Tight Buffered LSZH | Low Emission

Low-Smoke Zero-Halogen Cables, IEC verified for flame and smoke – OFNR Rated



Popular indoor cables for spaces demanding the additional safety of low smoke and emission characteristics –without the presence of halogen.

### Overview

Prysmian’s Low Smoke Zero Halogen (LSZH) cables are intended for use in demanding environments that require cables to meet high fire safety standards. May be deployed in a variety of applications which may include riser, ducts or cable trays.

### Product Snapshot

<b>Applications</b>	Versatile indoor and outdoor cable, low emission fire protection in crowded spaces, Some versions combine LSZH with riser rating for indoor performance.
<b>Constructions</b>	Distribution (900µm)/Breakout (2.5mm)
<b>Fiber Count</b>	2 to 72 (Distribution)
<b>Fiber Types</b>	Multimode Fibers (62.5/125-OM2, 50/125-OM2, OM3 and OM4)
<b>Options</b>	Indoor-Outdoor Versions (Loose Tube) / Interlock Armor / Preconnectorized
<b>Standards</b>	TIA / EIA-568C.3, ANSI / ICEA S-83-596, Telecordia GR-409, RoHS Compliant Meets the following IEC specifications - IEC 60332-3-24 Category C - IEC 60332-1-2 - IEC 60332-2-2 - IEC 61034-2 - IEC 60754-1 - IEC 60754-2

### Features and Benefits

#### Easy Cable Installation & Termination

- 900µm tight buffered fibers can be directly terminated
- Color-coded fibers & numbered sub-units simplify identification
- Colored rip cords for ease of identification and jacket removal
- Interlock armor option available

#### Safety Ratings

- Riser rated per NEC ARTICLE 770 - UL 1666/FT4 per CSA 22.2/No. 232

#### Reliable Performance

- Guaranteed 10 gigabit & 1 gigabit ethernet transmission lengths
- Guaranteed standards-based performance
- Available in 62.5µm, 50µm, single-mode & hybrid version

**RoHS**  
Compliant

## Tight Buffered LSZH | Low Emission

Low-Smoke Zero-Halogen Cables, IEC verified for flame and smoke – OFNR Rated

ezDISTRIBUTION™ | LSZH Indoor | LSZH Series | OFNR, FT-4, LSZH Rated

Bend Radius Bend Radius Max Installation Max Operation							
Number of Diameter Cable Weight UNDER LOAD NO LOAD LOAD (pull strength) LOAD							
Fiber Count	Number of Units	Diameter Inches (mm)	Cable Weight lb/kft (kg/km)	Bend Radius UNDER LOAD Inches (cm)	Bend Radius NO LOAD Inches (cm)	Max Installation LOAD (pull strength) lbs (newtons)	Max Operation LOAD lbs (newtons)
2	single-unit	0.196 (5.0)	15 (26)	3.9 (10.0)	3 (8)	150 (660)	45 (200)
4	single-unit	0.205 (5.2)	21 (29)	4.1 (10.4)	3 (8)	150 (660)	45 (200)
6	single-unit	0.206 (5.2)	22 (29)	4.1 (10.4)	3 (8)	150 (660)	45 (200))
8	single-unit	0.234 (5.9)	24 (31)	4.7 (12.0)	3.5 (8.9)	150 (660)	45 (200)
10	single-unit	0.240 (6.1)	24 (33)	4.8 (12.2)	3.6 (9.2)	150 (660)	45 (200)
12	single-unit	0.244 (6.2)	31 (34)	4.9 (12.4)	3.7 (9.3)	150 (660)	45 (200)
18	single-unit	0.320 (8.13)	41 (61)	6.4 (16.3)	4.8 (12.2)	300 (1320)	90 (396)
24	single-unit	0.320 (8.13)	45 (67)	6.4 (16.3)	4.8 (12.2)	300 (1320)	90 (396))
36-48	4	0.700 (17.8)	184 (274)	14 (35)	7 (17.5)	300 (1320)	90 (396)
72	6	0.868 (22)	295 (440)	17 (44)	8.6 (22)	300 (1320)	90 (396))

Note. Cable damage may occur if installation temperature limits are exceeded; therefore, Prysmian Group recommends storing I/O cables in appropriate temperature conditions  $\geq 24$  hours prior to placement.

### Temperature Range

Shipping and Storage	-40° F to +176° F	(-40° C to +80° C)
Installation	14° F to +122° F	(-10° C to +50° C)
Operation	-4° F to +176° F	(-20° C to +80° C)

### Outer Jacket Colors

- Orange Jacket: Multimode fiber (OM1, OM2)
- Aqua Jacket: 10 GbE multimode fiber (OM3, OM4)
- Yellow Jacket: Single-mode fiber
- Black Jacket: Hybrid fiber types

## Ordering Guide

The Prysmian Group part number incorporates several significant attributes involving cable design and optical performance. The appropriate part number can be configured using the process described below

**EXAMPLE:** ezDISTRIBUTION | 600 Series Indoor Riser (OFNR / FT-4), 24 multimode 62.5/125 Fibers (printed in feet)



CABLE INFORMATION	
<b>1</b> LENGTH MARKINGS	F = Feet or M = Meters
<b>2</b> PRODUCT FAMILY	600 = ezDISTRIBUTION Riser LSZH   Tight Buffer Flame Rating: OFNR/FT4
<b>3</b> CONSTRUCTION	(blank) = none
<b>4</b> FIBER GROUPING	12 = 12f per unit or tube

FIBER INFORMATION					
<b>5</b> FIBER TYPE					
SINGLE-MODE					
HB = Enhanced Single-Mode (ITU G.652 C & D)					
B1 = Bend-Insensitive Single-Mode (ITU G.657.A2 & B2 & G.652.D)					
B2 = Bend-Insensitive Single-Mode (ITU G.657.A2 & B2 & G.652.D)					
MULTIMODE					
	Wavelength (nm)	Bandwidth (MHz)	1 GbE Dist (m)	10 GbE Dist (m)	
G6 = OM1 (62.5µm)	850/1300	200/500	300/550	33/___	
G5 = OM2+ BIF (50µm)	850/1300	700/500	800	150/___	
G3 = OM3 BIF (50µm)	850/1300	1500/500	1000	300/___	
G4 = OM4 BIF (50µm)	850/1300	3500/500	1100	550/___	
<b>6</b> FIBER COUNT					
02 to 72 fibers					
<b>7</b> FIBER GRADE					
SINGLE-MODE					
Attenuation (dB/km)	Wavelength (nm)	Fiber Type			
EB = 0.7/0.7/0.7	1310/1383/1550	Enhanced Single-Mode			
EA = 0.5/0.5/0.5	1310/1383/1550	Bend-Insensitive Single-Mode			
E7 = 0.4/0.4/0.3	1310/1383/1550	Bend-Insensitive Single-Mode			
MULTIMODE					
Attenuation (dB/km)	Wavelength (nm)	Fiber Type			
M2 = 3.5/1.0	850/1300	OM1 (62.5µm)			
M3 = 3.0/1.0	850/1300	OM2+, OM3, OM4 (50µm)			
Other cable constructions and fiber performance grades available on request.					

© DRAKA & PRYSMIAN - Brands of The Prysmian Group. 2014 All Right Reserved. The information contained within this document must not be copied, reprinted or reproduced in any form, either wholly or in part, without the written consent of Prysmian Group. The information is believed correct at the time of issue. Prysmian Group reserves the right to amend any specifications without notice. These specifications are not contractually valid unless specifically authorized by Prysmian Group. Issued July 2014..