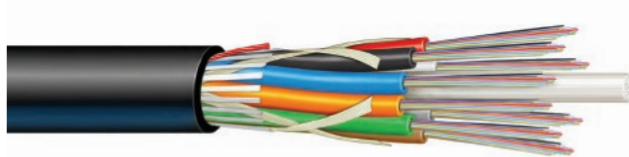
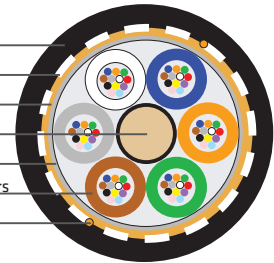


## FirstLink™ Gel-Filled Loose Tube | Indoor-Outdoor

Indoor-Outdoor Riser and LSZH Cables



- Flame Retardant Jacket
- Outer Strength Members
- Flame Retardant Tape
- Central Strength Member
- Water Blocking Tape
- Gel Filled Buffer Tube Containing up to 12 Fibers
- Ripcord



*Versatile indoor-outdoor flame rated fiber cables - ideal for interbuilding and building transition applications*

### Overview

Prysmian's indoor-outdoor gel-filled loose tube riser designs provide flame-rated network solutions for a diverse number of network applications. These cables combine flexible gel-filled buffer tubes and swellable water blocking materials with Prysmian's extensive portfolio of single-mode and multimode optical fibers. Incorporating proven outside plant design elements, this cable may be employed in outdoor aerial lashed, duct, and direct buried environments.

Because of its application diversity, this advanced product eliminates the necessity and expense for traditional cable transition points once required in legacy systems. Cost savings and system long term reliability are achieved by enabling cable placement virtually anywhere in the network.

### Product Snapshot

<b>Applications</b>	Multi-purpose indoor-outdoor aerial lashed, duct and direct buried
<b>Constructions</b>	Dielectric, single jacket
<b>Flame Ratings</b>	Riser (OFNP/OFCP/FT4), LSZH (OFN-LS)
<b>Fiber Count</b>	2-288 (Riser)
<b>Fiber Types</b>	Single-Mode (ESMF), Multimode (62.5/125-OM1, 50/125-OM2+, OM3 & OM4)
<b>Standards</b>	TIA/EIA-568, ANSI/ICEA S-83-596, ANSI/ICEA S-104-696, UL-1666, NFPA 262, CSA 22.2 No 230, Telcordia GR-409, Telcordia GR-20, RoHS Compliant

### Features and Benefits

- Fiber identification using TIA standardized color coding
- Gel-Filled buffer tubes simplifies access and reduces prep time
- Flame-retardant, black UV-resistant outer jacket
- Flexible kink-resistant buffer tubes for routing and storage
- Available with bend-insensitive single-mode and multimode optical fibers
- Interlock armor designs available for added durability
- Colored jackets available upon request (riser rated)

**RoHS COMPLIANT**

## FirstLink™ Gel-filled Loose Tube | Indoor-Outdoor

Indoor-Outdoor Riser and LSZH Cables

### FirstLink™ I/O Riser and LSZH Dielectric (Single Jacket - Gel-Filled) | DRLTK Series

Fiber Count		2-60	62-72	74-96	98-120	122-144	156-216	228-288	
Buffer Tube Count		5	6	8	10	12	18	22	
Max . Fibers/Tube (mm)		12	12	12	12	12	12	12	
RISER	Buffer Tube OD	(mm)	2.65	2.65	2.65	2.65	2.65	2.65	
		(inches)	0.104	0.104	0.104	0.104	0.104	0.104	0.104
RISER	Cable OD	(mm)	12.55	12.65	14.35	16.05	17.95	18.25	20.95
		(inches)	0.49	0.50	0.56	0.63	0.71	0.72	0.82
RISER	Cable Weight	(kg/km)	136	126	160	202	255	236	319
		(lb/kft)	91	85	108	136	171	159	214
LSZH	Cable OD	(mm)	12.15	12.85	14.55	16.25	18.15	--	--
		(inches)	0.48	0.51	0.57	0.64	0.71	--	--
LSZH	Cable Weight	(kg/km)	122	137	175	218	275	--	--
		(lb/kft)	82	92	118	146	185	--	--
Max. Length		(kg/km)	12,800	12,800	12,800	11,633	9,302	8,045	6,668
		(lb/kft)	41,984	41,984	41,984	38,156	30,511	26,388	21,871

#### Temperature Range

Shipping and Storage: -40° F to +158° F (-40° C to +70° C)

Installation: +32° F to +140° F (0° C to +60° C)

Operation: -40° F to +158° F (-40° C to +70° C)

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

#### Mechanical Specifications

Maximum installation load: 600 lbf (2670 N)

Maximum operation load: 180 lbf (801 N)

PERFORMANCE SPECIFICATIONS		
<b>Bend Radius</b>		
Dynamic	20 x Cable OD	
Static	10 x Cable OD	
<b>Tensile Rating</b>	<b>N</b>	<b>lbf</b>
Installation	2700	600
Residual	800	180
<b>Crush Resistance</b>	<b>N/cm</b>	<b>lbf/in</b>
Short/ Long Term	220/110	125/63
<b>Temperature Ratings</b>	<b>°C</b>	<b>°F</b>
Operation	-40 to +70	-40 to +158
Installation	-30 to +60	-22 to +140
Storage/Shipping	-40 to +75	-40 to +167

## FirstLink™ Gel-filled Loose Tube | Indoor-Outdoor

Indoor-Outdoor Riser and LSZH Cables

**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:** 36 count FirstLink™ loose tube | indoor-outdoor riser | gel-filled buffer tubes | dielectric (single jacket) with singlemode fibers.

1 LENGTH MARKINGS	2 PRODUCT FAMILY	3 CONSTRUCTION	4 FIBER GROUPING	5 FIBER TYPE	6 FIBER COUNT	7 FIBER GRADE
F	DRLTK	AJ	12	ES	036	E1

PART NUMBER CONSTRUCTION	
<b>1 LENGTH MARKINGS</b>	F = Feet or M = Meters
<b>2 PRODUCT FAMILY</b>	DRLTK = Indoor-Outdoor Dry Riser, All-Dielectric (single jacket) DZLTK = Indoor-Outdoor Dry LSZH, All-Dielectric (single jacket)
<b>3 CONSTRUCTION</b>	(blank) = none AJ = Jacketed aluminum SJ = Jacketed steel
<b>4 FIBER GROUPING</b>	12 = 12f per unit or tube

FIBER INFORMATION					
<b>5 FIBER TYPE</b>					
SINGLE-MODE					
HB = Single-Mode (ITU G.652 C & D) Low Water Peak					
ES = Enhanced Single-Mode (ITU G.652 C & D)					
CE = Corning™ SMF28e+ Single-Mode					
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 FIBER COUNT</b>					
002 up to 288 fibers					
<b>7 FIBER GRADE</b>					
SINGLE-MODE					
Attenuation (dB/km)	Wavelength (nm)	Fiber Type			
E1 = 0.40/0.40/0.30	1310/1383/1550	HB, ES, or CE			
E3 = 0.35/0.35/0.25	1310/1383/1550	HB, ES, or CE			
MULTIMODE					
Attenuation (dB/km)	Wavelength (nm)				
M2 = 3.5/1.0	850/1300				
M3 = 3.0/1.0	850/1300				
Other cable constructions and fiber performance grades available on request.					

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