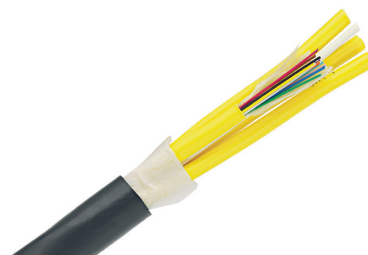


# Opti-Core™ Fiber Optic Indoor-Outdoor Cable with Tight Buffered Fibers – Asia Pacific

## specifications

This family of cables shall contain 4 to 72 optical fibers. The fibers shall be tight-buffered for easy termination with field-installable connectors. The cables shall be flame rated for use indoors, complying with UL standards for riser and IEC standards for Low Smoke/Zero Halogen (LSZH). The cables shall have UV resistant and water blocking properties for use in outdoor environments. The cables shall have options for singlemode (OS2) or multimode fibers (OM3 and OM4) to support 10 Gb/s network transmission and beyond.



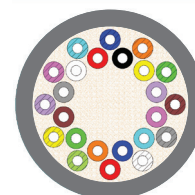
## standards and flame rating

Telcordia GR-409-CORE (Indoor Fiber Optic Cable)  
UL 1666 (Riser)  
IEC 60332 (Flame Retardant)  
IEC 61034 and IEC 60754-2 (Low Smoke and Zero Halogen)  
RoHS Compliant

## cable construction (all-dielectric)

### 4 to 24 fibers

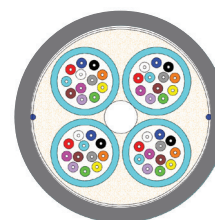
900µm tight buffered fibers are protected by water blocking strength members in a flame-retardant outer jacket.



(representative cross-section with 24 fibers)

### 48 and 72 fibers

4 or 6 sub-units with 12 fibers per sub-unit. Cable has a dielectric central strength member and 2 ripcords. Subunits are surrounded by tape (Riser only) and outer jacket. Each sub-unit contains twelve 900µm tight buffered fibers, water blocking strength members and a flame-retardant sheath.



(representative cross-section with 48 fibers)

### Outer jacket

Outer sheath is Black. Material is flame-retardant, UV stabilized and resistant to water and moisture.

## key features and benefits

<b>900µm tight buffered fibers</b>	Easy to handle, strip and connectorize in the field
<b>Flame retardant riser or LSZH jacket</b>	Provides life safety benefits; meets industry standards for smoke and flame and is well suited for indoor installations
<b>Water swellable elements</b>	Prevent the migration of water throughout the cable (longitudinally water blocked)
<b>Sub-unit design with central strength member</b>	Simplifies fiber identification, provides easy access and routing of fibers, increases cable durability
<b>Highest quality OM3 and OM4 laser optimized fiber</b>	Supports 10 Gb/s applications while maintaining compatibility with existing 50µm multimode systems

## applications

- Can be used indoors and outdoors; a good choice for entrance facilities
- Typical applications include LAN backbones, backbones in data centers, and routing between telecommunications rooms
- This cable is suited for installation in ducts and on trays

# Opti-Core™ Fiber Optic Indoor-Outdoor Cable with Tight Buffered Fibers – Asia Pacific

## physical and mechanical properties





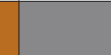





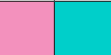
Fiber Count	4	6	8	12	24	48	72
Nominal Outside Diameter (mm)	5.3	5.3	5.8	6.6	8.8	18.3	21.9
Bend Radius	Installation/Short Term/With Load: 20X Cable Outside Diameter						
	Operation/Long Term/No Load: 10X Cable Outside Diameter						
Weight (kg/km)	25	32	41	53	60	253	381
Tensile Strength (Installation/Short Term) (N)	660	660	660	660	1320	1320	1320
Tensile Strength (Installation/Long Term) (N)	200	200	200	200	400	400	400
Compressive Strength (Crush) (N/100mm)	1000	1000	1000	1000	1000	1000	1000
Temperature Range	Storage: -40°C to +70°C						
	Installation: 0°C to +50°C						
	Operation: -20°C to +70°C						
Water penetration	3 meter sample, no leakage after 24 hours						

## optical properties: maximum attenuation

**OS2 Singlemode (ITU-T G.652.D)** 0.7 dB/km @1310 nm, 0.7 dB/km @1550 nm

**OM3 & OM4 Multimode** 3.5 dB/km @850 nm, 1.5 dB/km @1300 nm

## fiber color sequence

1	2	3	4	5	6	7	8	9	10	11	12
Blue	Orange	Green	Brown	Slate	White	Red	Black	Yellow	Violet	Pink	Aqua
											

Fibers 13 through 24 repeat this color sequence and have a Black dash. Fiber 20 is Black with White dash.

## ordering information

\*Example: FLKLZ12 = OM4 12 Fiber Indoor-Outdoor Cable, LSZH, 900µm Tight Buffered Fibers

<b>Character</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>
<b>Example*</b>	<b>F</b>	<b>L</b>	<b>K</b>	<b>L</b>	<b>Z</b>	<b>1</b>	<b>2</b>

### 1 and 2 – Fiber Product, Region

FL = Fiber Cable, Asia Pacific

### 3 – Cable Construction

K = Indoor-Outdoor Tight Buffered  
All-Dielectric

### 4 – Flame Rating

L = LSZH  
R = Riser

### 5 – Fiber Type

9 = Singlemode OS2 9/125µm  
X = Multimode OM3 50/125µm  
Z = Multimode OM4 50/125µm

### 6 and 7 – Fiber Count

04 = 4-fiber  
06 = 6-fiber  
08 = 8-fiber  
12 = 12-fiber  
24 = 24-fiber  
48 = 48-fiber  
72 = 72-fiber

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