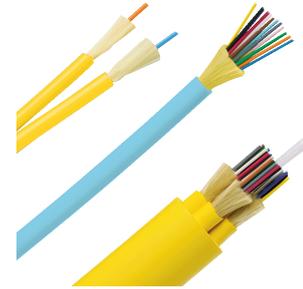## specifications

This family of fiber optic distribution and interconnect cables shall be suitable for indoor applications, complying with UL standards for Riser and IEC standards for low smoke / zero halogen (LSZH). It shall have options for singlemode (OS2) or multimode fibers (OM3 and OM4) to support 10 Gb/s network transmission and beyond. The optical fibers shall be tight-buffered for easy termination with field-installable connectors. Distribution cables shall contain up to 48 fibers. Interconnect cable shall consist of two single-fiber cables joined together by a web (duplex zipcord).

standards and flame rating

✔ UL 1666 (Riser)	✔ IEC 61034 and IEC 60754-2 (Low Smoke and Zero Halogen)
✔ IEC 60332-1 (Flame Retardant)	✔ RoHS Compliant

cable construction (all-dielectric)

2-Fiber Interconnect Cable:	Zipcord cable: Each 900µm tight buffered fiber is protected by aramid yarns inside a 2.9mm round jacket. The two jackets are linked together with a thin web between.
2 to 24 Fiber Distribution Cable:	900µm tight buffered fibers are protected by aramid yarns and an outer jacket
48 Fiber Distribution Cable:	4 sub-units x 12 fibers each. Sub-unit design has a central strength member made of fiber reinforced plastic (FRP). Each sub-unit contains twelve 900µm tight buffered fibers protected by aramid yarns and a jacket. Sub-units are surrounded by polyester tape and outer jacket. Includes ripcords.
Jacket Color:	For all fiber counts, outer jacket is aqua for OM3 and OM4, yellow for OS2

key features and benefits

Flame retardant riser or LSZH jacket	Provides life safety benefits; meets industry standards for smoke and flame and is ideal for indoor installations
900µm tight buffered fiber	Easy to handle, strip, and connectorize
Small cable size	Allows for installation in space-constrained pathways
Highest quality OM3 and OM4 laser optimized fiber	Supports 10 Gb/s applications while maintaining compatibility with existing 50µm multimode systems

applications

- For indoor use in intra-building backbone and horizontal installations
- Distribution cable is used within buildings to provide high-density connectivity and ease of installation. Applications include intra-building backbones and routing between telecommunications rooms.
- 2-fiber zipcord interconnect cable is used within buildings to extend or interconnect network segments for applications such as high-end workstations, secure networks, and zone cabling
- Interconnect cable can also be used for patch cords and jumpers

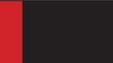# Opti-Core™ Fiber Optic Indoor Cable - Asia Pacific

physical and mechanical properties

	Zipcord	Distribution						
Fiber Count	2	2	4	6	8	12	24	48
Nominal Outside Diameter (mm)	2.9	4.3±0.5	4.8	4.8	5.4	6.2	8.8	18.0
Bend Radius	Installation / Short Term / With Load: 20X Cable Outside Diameter							
	Operation / Long Term / No Load: 10X Cable Outside Diameter							
Approximate Weight (kg/km)	14	17	19	21	27	32	60	240
Tensile strength (Installation / Short Term)	220 N	660 N	660 N	660 N	660 N	660 N	1320 N	1320 N
Tensile strength (Operation / Long Term)	66 N	200 N	200 N	200 N	200 N	200 N	400 N	400 N
Compressive strength (Crush) N/100mm	350	350	500	500	500	500	500	1000
Operating Temperature	-20°C to +70°C							

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 code

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 light green with a black tracer.

ordering information

*Example: FLDLZ12Y, OM4 12 Fiber Indoor Distribution Cable, LSZH, 900µm Buffered Fibers

CHARACTER	1	2	3	4	5	6	7	8
EXAMPLE	F	L	D	L	Z	1	2	Y

1 and 2 – Fiber Product, Region
FL = Fiber Cable, Asia Pacific

3 – Cable Construction
D = Indoor Distribution
    (2-48 fibers)
I = Interconnect Duplex Zipcord
    (2-fibers only)

4 – Flame Rating
L = LSZH
R = Riser

5 – Fiber Type
9 = Singlemode OS2
X = Multimode OM3
Z = Multimode OM4

6 and 7 – Fiber Count
02 = 2-fiber
04 = 4-fiber
06 = 6-fiber
08 = 8-fiber
12 = 12-fiber
24 = 24-fiber
48 = 48-fiber

8 – RoHS Compliant
Y = Yes

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or by phone: 800.777.3300

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