

# INDOOR Interconnect 1-fiber, 2-fiber and zip

FIBER

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### Product Highlights

- REACH & RoHS 2 compliant.
- Made in USA.
- 900 micron buffered design recommended for easy termination.
- LSZH with OFNR rating enables use in riser-rated environments.
- Halogen free design offers improved safety performance.
- All multimode, and singlemode cables (except OM1) utilize bend-insensitive optical fibers.
- Ideal for patch cords, interconnections, and short runs.
- Easy to strip and terminate.
- Lightweight, flexible aramid yarns enhance strength.
- LSZH rating established via HCA material testing to IEC 60332-3-24, IEC 60754-1 & 2 and IEC 61034-2.

### Options

- Enhanced bend insensitive OS2 optical fiber is available (ITU-T G.657.B3 & G.657.A2).
- Standard jacket colors are:  
Yellow: OS2  
Orange: OM1 & OM2  
Aqua: OM3 & OM4  
*Note: Erika Violet for OM4 is available*
- OM4+ optical fibers with extended 10 gigabit Ethernet distances are available.

### Applications

- Applications include 10, 40 & 100 gigabit Ethernet, Fibre Channel, Video, Security, Automation.
- OM5 supports applications utilizing Short Wave Division Multiplexing (SWDM).

### Standards

- TIA/EIA-568-C.3
- ISO/IEC 11801, 2nd edition
- Telcordia GR-409-CORE

## Interconnect (LSZH/Riser) Low Smoke Zero Halogen (UL) OFNR c(UL) OFNR FT4

### PART NUMBERS BY FIBER COUNT

FIBERS	62.5 UM OM1	50 UM OM2	50 UM OM3	50 UM OM4	50 UM OM5	8.3 UM OS2
1	62124-1	62125-1	62126-1	62127-1	62727-1	62029-1
1	62129-1	62130-1	62131-1	62132-1	62728-1	62133-1
1	62135-1	62136-1	62137-1	62138-1	62729-1	62139-1
1	62141-1	62142-1	62143-1	62144-1	62730-1	62145-1
2	62124-2	62125-2	62126-2	62127-2	62727-2	62029-2
2	62147-2	62148-2	62149-2	62150-2	62731-2	62151-2
zip	62957-2	62958-2	62959-2	62960-2	62962-2	62963-2
zip	62275-2	61769-2	62276-2	62277-2	62732-2	62274-2
zip	62153-2	62154-2	62155-2	62156-2	62733-2	62157-2

### SPECIFICATIONS BY FIBER COUNT

FIBERS	CABLE O.D.		RECOMMENDED MAXIMUM LOADS				CABLE WEIGHT	
			INSTALL		OPERATION			
	in.	mm	lbs-f	N	lbs-f	N	lbs/1000 ft	kg/1000m
1	0.114	2.9	96	427	29	128	4.9	7.3
1	0.094	2.4	64	285	19	85	4.1	6.1
1	0.079	2.0	50	223	15	67	3.5	5.2
1	0.063	1.6	50	223	15	67	1.85	2.8
2	0.114	2.9	96	427	29	128	5.35	8.0
2	0.19	4.8	128	569	38	171	12.9	19.2
zip	.063 x .138	1.6 x 3.5	50	223	15	67	2.67	4.0
zip	.079 x .170	2.0 x 4.3	96	427	48	213	6.2	9.2
zip	.113 x .240	2.9 x 6.1	128	569	64	284	11.5	17.1

### Cable Characteristics

Note: Part number rows in upper table directly correspond to cable characteristic rows in the same location of the lower table.

# Multimode and Singlemode Interconnect

## Interconnect (LSZH/Riser) Low Smoke Zero Halogen (UL) OFNR c(UL) OFNR FT4

### Optical Specifications

TIA/EIA-568-C.3 | ISO/IEC 11801, 2nd edition | Telcordia GR-409-CORE

Fiber type	Max. Attenuation (dB/km)		Min OFL Bandwidth (MHz-km)		Min EMBC Bandwidth (MHz-km)		Gb Ethernet distance (m)		10 Gb Ethernet distance (m)	
	850nm (MM)	1300nm (MM)	850nm (MM)	1300nm (MM)	850nm (MM)	1300nm (MM)	850nm (MM)	1300nm (MM)	850nm (MM)	1300nm (MM)
OM1	3.5	1.0	200	500	220	N/A	300	550	33	N/A
OM2	3.0	1.0	700	500	950	N/A	750	550	150	N/A
OM3	3.0	1.0	1500	500	2000	N/A	1000	550	300	N/A
OM4	3.0	1.0	3500	500	4700	N/A	1100	550	550	N/A
OM5*	3.0	1.0	3500	500	4700	N/A	1100	550	550	N/A
	1310nm (SM)	1550nm (SM)	1310nm (SM)	1550nm (SM)	1310nm (SM)	1550nm (SM)	1310nm (SM)	1550nm (SM)	1310nm (SM)	1550nm (SM)
OS2	0.5	0.5	N/A	N/A	N/A	N/A	> 25,000	> 40,000	10,000 - 25,000	40,000

Hitachi Cable America reserves the right to revise any specifications.

\*OM5 optical fiber tested by glass manufacturer and exceeds the requirements of all applicable industry standards.

### Cable Temperature Ranges

Storage: -40° to 70°C (-40° to 158°F)  
 Installation: -10° to 60°C (14° to 140°F)  
 Operating: -20° to 70°C (-4° to 158°F)

### Mechanical Specifications

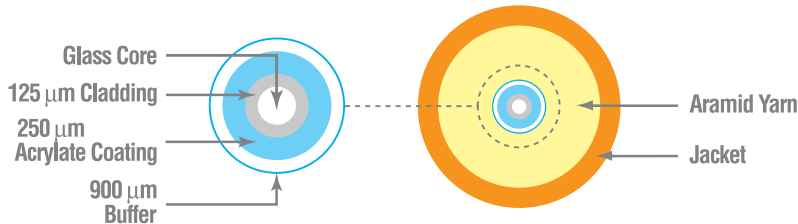
- Bend radius, no load = 10x cable overall diameter
- Bend radius, load = 15x cable overall diameter



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### Features



DIELECTRIC MATERIALS

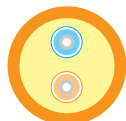
LSZH/RISER

Overall Jacket

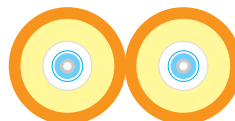
Flame-retardant thermoplastic



1-fiber Interconnect



2-fiber Interconnect



2-fiber Zip Cord

Diagram scale approx. 5:1