

Indoor Tight Buffered

FIBER

Product Highlights

- REACH & RoHS 2 compliant
- Made in U.S.A.
- All multimode, and singlemode cables (except OM1) utilize bend-insensitive optical fibers
- 900 um buffered design recommended for easy termination
- Eliminates need for inner duct or conduit
- Aluminum interlock armor.
- Each fiber is color coded for easy identification
- Ideal intra-building cable solution.
- Flexible and easy to handle
- Lightweight, flexible aramid yarns enhance strength

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
 Lime Green: OM5
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

- ANSI/TIA-568.3-D
- ISO/IEC 11801, 2nd edition
- Telcordia GR-409-CORE

Armored Tight Buffered (Plenum)

(UL) OFCP c(UL) OFCP FT6

PART NUMBERS BY FIBER COUNT

FI-BERS	62.5 UM OM1	50 UM OM2	50 UM OM3	50 UM OM4	50 UM OM5	8.3 UM OS2
2	60405-2	61319-2	61337-2	61897-2	62813-2	61433-2
4	60405-4	61319-4	61337-4	61897-4	62813-4	61433-4
6	60405-6	61319-6	61337-6	61897-6	62813-6	61433-6
8	60405-8	61319-8	61337-8	61897-8	62813-8	61433-8
10	60405-10	61319-10	61337-10	61897-10	62813-10	61433-10
12	60405-12	61319-12	61337-12	61897-12	62813-12	61433-12
24	60405-24	61319-24	61337-24	61897-24	62813-24	61433-24
48	62183-48	62184-48	62185-48	62186-48	62814-48	62187-48
72	62183-72	62184-72	62185-72	62186-72	62814-72	62187-72

Optical Specifications

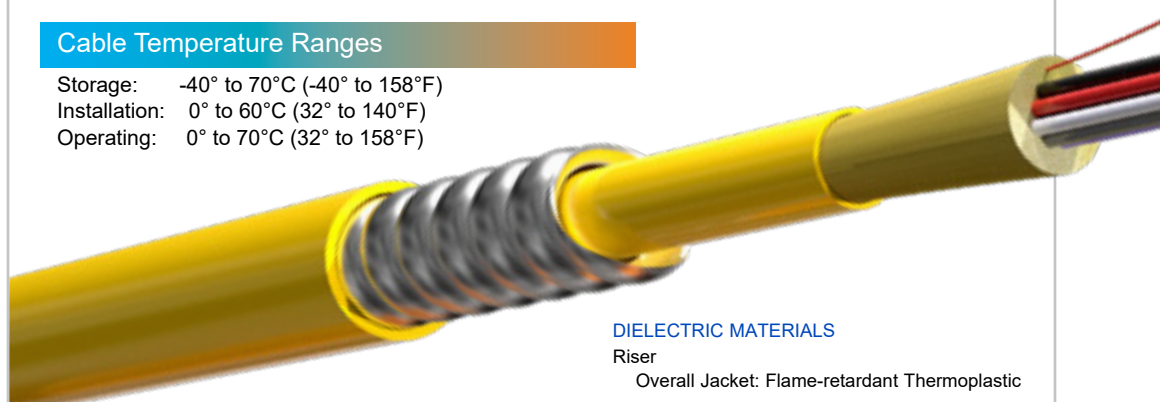
TIA-568.3-D | ISO/IEC 11801, 2nd edition | Telcordia GR-409-CORE

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)	
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
		1550nm (SM)	1310nm (SM)	1550nm (SM)	1310nm (SM)	1550nm (SM)	1310nm (SM)	1550nm (SM)	1310nm (SM)	
OS2	0.5	0.5	N/A	N/A	N/A	N/A	> 25,000	> 40,000	10,000 - 25,000	40,000

*OM5 optical fiber tested by glass manufacturer and exceeds the requirements of all applicable industry standards. Hitachi Cable America reserves the right to revise any specifications.

Cable Temperature Ranges

Storage: -40° to 70°C (-40° to 158°F)
 Installation: 0° to 60°C (32° to 140°F)
 Operating: 0° to 70°C (32° to 158°F)



DIELECTRIC MATERIALS

Riser

Overall Jacket: Flame-retardant Thermoplastic

Multimode and Singlemode Armored

SPECIFICATIONS BY FIBER COUNT

	CABLE O.D.		RECOMMENDED MAXIMUM LOADS				CABLE WEIGHT	
			INSTALLATION		OPERATION			
	inches	mm	lbs-f	N	lbs-f	N	lbs/1000 ft	kg/1000 m
2	0.520	13.21	128	570	38	171	93.5	139.1
4	0.520	13.21	128	570	38	171	94.8	141.1
6	0.520	13.21	128	570	38	171	96.2	143.1
8	0.520	13.21	160	712	48	214	100.5	149.6
10	0.520	13.21	160	712	48	214	101.9	151.6
12	0.520	13.21	160	712	48	214	103.3	153.7
24	0.643	16.33	288	1282	86	385	158.1	235.3
48	0.964	24.49	640	2849	192	855	305.7	454.9
72	1.099	27.91	960	4273	288	1282	453.8	675.3

Mechanical Specifications

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

plus
CORNING
ClearCurve® Optical Fiber

FIBER

Features

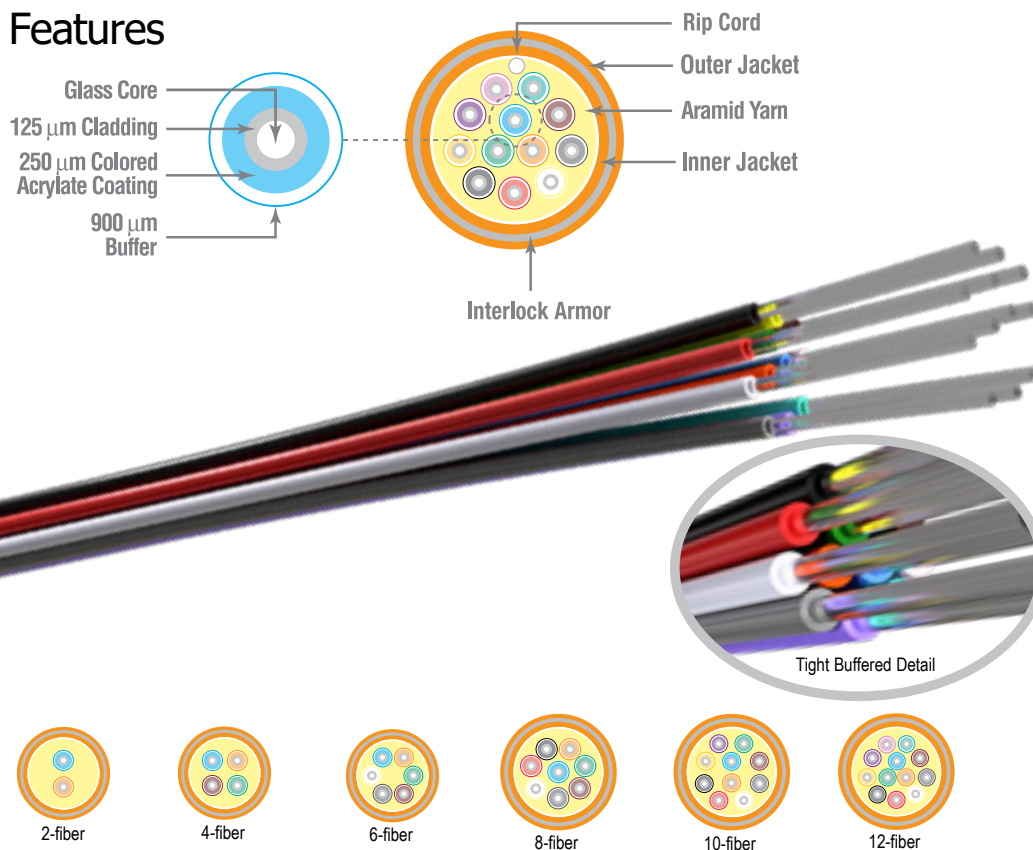


Diagram scale approx. 2:1

Photo is for representation purposes only.

