

# Tight Buffered

2 through 144 fibers

Multimode and Singlemode

# Tight Buffered

## HITACHI

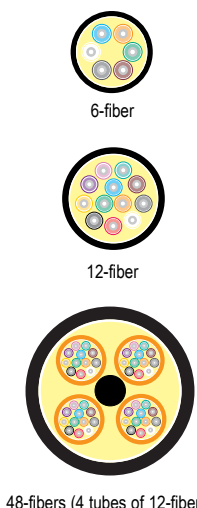
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### Product Highlights

- RoHS & REACH compliant.
- All Multimode, and singlemode cables (except OM1) utilize bend-insensitive optical fibers.
- UV resistant jacket.
- Tight buffered construction.
- Easy to strip and terminate.
- Each fiber is color coded for easy identification.
- Dry, super absorbent polymers (SAPs) eliminate water migration in cable interstices.
- Suitable for lashed aerial, duct, underground conduit and indoor plenum applications.
- 900um buffered design recommended for easy termination.
- Cables with more than 24 fibers have fibers segregated into 12-fiber sub-units.

### Options

- OM4 optical fibers with extended 10 gigabit Ethernet distances are available.
- OS2 optical fibers with enhanced bend-insensitive performance are available.



48-fibers (4 tubes of 12-fibers)  
Diagram scale approx. 3:1

### I/O Tight Buffered (Plenum)

(UL) OFNP c(UL) OFNP FT6

Fiber Count	Fibers per tube	62.5 UM OM1	50 UM OM2	50 UM OM3	50 UM OM4	8.3 UM OS2
2	2	61460-2	61464-2	61468-2	61894-2	61459-2
4	4	61460-4	61464-4	61468-4	61894-4	61459-4
6	6	61460-6	61464-6	61468-6	61894-6	61459-6
8	8	61460-8	61464-8	61468-8	61894-8	61459-8
10	10	61460-10	61464-10	61468-10	61894-10	61459-10
12	12	61460-12	61464-12	61468-12	61894-12	61459-12
24	24	61460-24	61464-24	61468-24	61894-24	61459-24
48	12	61979-48	61956-48	61959-48	61980-48	61480-48
72	12	61979-72	61956-72	61959-72	61980-72	61480-72
144	12	61979-144	61956-144	61959-144	61980-144	61480-144

### I/O Tight Buffered (Plenum)

(UL) OFNP c(UL) OFNP FT6

FIBER COUNT	# Fibers per Tube	Tube Layout	CABLE O.D.		RECOMMENDED INSTALL		MAXIMUM LOADS OPERATION		CABLE WEIGHT	
			in.	mm	lbs-f	N	lbs-f	N	lbs/1000 ft	kg/1000m
2	2	x	.190	4.8	128	570	64	285	12.6	18.8
4	4	x	.190	4.8	128	570	64	285	13.9	20.7
6	6	x	.190	4.8	128	570	64	285	15.1	22.5
8	8	x	.230	5.8	160	712	80	356	20.0	29.8
10	10	x	.230	5.8	160	712	80	356	21.3	31.7
12	12	x	.230	5.8	160	712	80	356	22.5	33.5
24	24	x	.350	8.8	288	1282	144	641	52.4	78.1
48	12	4xC5M	0.627	15.9	640	2849	320	1424	135.1	201.1
72	12	6xC5M	0.756	19.2	960	4273	480	2136	226.6	337.2
144	12	9x3xC5M	1.072	27.2	1920	8546	960	4273	396.8	590.5

### Cable Temperature Ranges

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

### Optical Specifications

TIA/EIA-568-C.3

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)
	or 1310nm (SM)	or 1550nm (SM)	or 1310nm (SM)	or 1550nm (SM)	or 1310nm (SM)	or 1550nm (SM)	or 1310nm (SM)	or 1550nm (SM)	or 1310nm (SM)	or 1550nm (SM)
OM1	3.5	1.0	200	500	220	N/A	300	550	33	N/A
OM2	3.5	1.0	700	500	950	N/A	750	550	150	N/A
OM3	3.25	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
OS2	0.5	0.5	N/A	N/A	N/A	N/A	> 25,000	> 40,000	10,000 - 25,000	40000

Hitachi Cable America reserves the right to revise any specifications.

### Mechanical Specifications

- Bend radius, no load = 10x cable overall diameter
- Bend radius, load = 20x cable overall diameter



Indoor/Outdoor

Indoor/Outdoor