Tight Buffered

2 through 144 fibers

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Product Highlights

- REACH & RoHS 2 compliant.
- Made in USA.
- 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.
- 900 um 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.

Applications

- Applications include 10, 40 & 100 gigabit Ethernet, Fibre Channel, Video, Security, Automation.

Standards

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

I/O Tight Buffered (Plenum) (UL) OFNP c(UL) OFNP FT6

PART NUMBERS BY FIBER COUNT

FIBERS	FIBERS/ 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
144	12	61979-144	61956-144	61959-144	61980-144	61480-144

SPECIFICATIONS BY FIBER COUNT

FIBERS	FIBERS/ TUBE	TUBE LAYOUT	CABLE O.D.		RECOMMENDED MAXIMUM LOADS INSTALL		OPERATION		CABLE WEIGHT	
			in.	mm	lbs-f	N	lbs-f	N	lbs/1000 ft	kg/1000m
2	2	-	.190	4.8	128	570	38	171	12.6	18.8
4	4	-	.190	4.8	128	570	38	171	13.9	20.7
6	6	-	.190	4.8	128	570	38	171	15.1	22.5
8	8	-	.230	5.8	160	712	48	214	20.0	29.8
10	10	-	.230	5.8	160	712	48	214	21.3	31.7
12	12	-	.230	5.8	160	712	48	214	22.5	33.5
24	24	-	.350	8.8	288	1282	86	385	52.4	78.1
48	12	4xCSM	0.627	15.9	640	2849	192	855	135.1	201.1
72	12	6xCSM	0.756	19.2	960	4273	288	1282	226.6	337.2
144	12	9x3xCSM	1.072	27.2	1920	8546	576	2564	396.8	590.5
144	12	9x3xCSM	1.072	27.2	1920	8546	960	4273	396.8	590.5

Cable Characteristics

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

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Optical Specifications

TIA/EIA-568-C.3

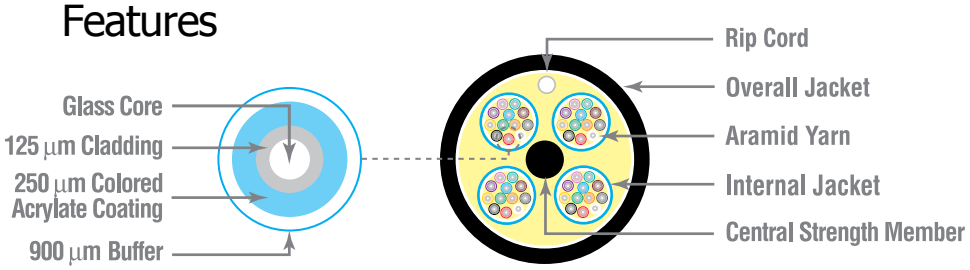
Fiber type	Max. Attenuation (dB/km)		Min OFL Bandwidth (MHz-km)		Min EMBc Bandwidth (MHz-km)		Gb Ethernet distance (m)		10 Gb Ethernet distance (m)	
	850nm (MM) or 1310nm (SM)	1300nm (MM) or 1550nm (SM)	850nm (MM) or 1310nm (SM)	1300nm (MM) or 1550nm (SM)	850nm (MM) or 1310nm (SM)	1300nm (MM) or 1550nm (SM)	850nm (MM) or 1310nm (SM)	1300nm (MM) or 1550nm (SM)	850nm (MM) or 1310nm (SM)	1300nm (MM) or 1550nm (SM)
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
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.

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)

Features



DIELECTRIC MATERIALS	PLENUM
Overall Jacket	Flame-retardant thermoplastic

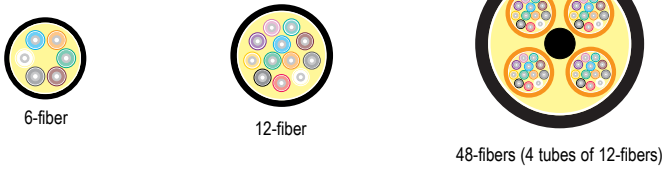


Diagram scale approx. 3:1

Mechanical Specifications

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

plus CORNING® ClearCurve® Optical Fiber

Photo is for representation purposes only.